

Lanes, Volumes, Timings  
10: Fort Shantock Rd

Background Traffic  
Saturday Peak Hour

|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | WBL                                                                               | WBR                                                                               | NBT                                                                               | NBR                                                                               | SBL                                                                               | SBT                                                                               |
| Detector Phase          | 3                                                                                 |                                                                                   | 2                                                                                 |                                                                                   | 1                                                                                 | 1 2                                                                               |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 7.0                                                                               |                                                                                   | 5.0                                                                               |                                                                                   | 5.0                                                                               |                                                                                   |
| Minimum Split (s)       | 22.7                                                                              |                                                                                   | 24.0                                                                              |                                                                                   | 9.5                                                                               |                                                                                   |
| Total Split (s)         | 25.0                                                                              |                                                                                   | 54.0                                                                              |                                                                                   | 16.0                                                                              |                                                                                   |
| Total Split (%)         | 26.3%                                                                             |                                                                                   | 56.8%                                                                             |                                                                                   | 16.8%                                                                             |                                                                                   |
| Maximum Green (s)       | 20.5                                                                              |                                                                                   | 48.1                                                                              |                                                                                   | 12.9                                                                              |                                                                                   |
| Yellow Time (s)         | 3.5                                                                               |                                                                                   | 4.5                                                                               |                                                                                   | 3.0                                                                               |                                                                                   |
| All-Red Time (s)        | 1.0                                                                               |                                                                                   | 1.4                                                                               |                                                                                   | 0.1                                                                               |                                                                                   |
| Lost Time Adjust (s)    | 0.0                                                                               |                                                                                   | 0.0                                                                               |                                                                                   | 0.0                                                                               |                                                                                   |
| Total Lost Time (s)     | 4.5                                                                               |                                                                                   | 5.9                                                                               |                                                                                   | 3.1                                                                               |                                                                                   |
| Lead/Lag                |                                                                                   |                                                                                   | Lag                                                                               |                                                                                   | Lead                                                                              |                                                                                   |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   | Yes                                                                               |                                                                                   |
| Vehicle Extension (s)   | 3.0                                                                               |                                                                                   | 3.0                                                                               |                                                                                   | 3.0                                                                               |                                                                                   |
| Recall Mode             | None                                                                              |                                                                                   | C-Max                                                                             |                                                                                   | None                                                                              |                                                                                   |
| Walk Time (s)           | 7.0                                                                               |                                                                                   | 7.0                                                                               |                                                                                   |                                                                                   |                                                                                   |
| Flash Dont Walk (s)     | 11.0                                                                              |                                                                                   | 11.0                                                                              |                                                                                   |                                                                                   |                                                                                   |
| Pedestrian Calls (#/hr) | 0                                                                                 |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |
| Act Effct Green (s)     | 9.2                                                                               |                                                                                   | 62.0                                                                              |                                                                                   | 77.4                                                                              | 81.1                                                                              |
| Actuated g/C Ratio      | 0.10                                                                              |                                                                                   | 0.65                                                                              |                                                                                   | 0.81                                                                              | 0.85                                                                              |
| v/c Ratio               | 0.45                                                                              |                                                                                   | 0.45                                                                              |                                                                                   | 0.03                                                                              | 0.33                                                                              |
| Control Delay           | 37.7                                                                              |                                                                                   | 11.8                                                                              |                                                                                   | 2.0                                                                               | 2.7                                                                               |
| Queue Delay             | 0.0                                                                               |                                                                                   | 0.8                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 37.7                                                                              |                                                                                   | 12.5                                                                              |                                                                                   | 2.0                                                                               | 2.7                                                                               |
| LOS                     | D                                                                                 |                                                                                   | B                                                                                 |                                                                                   | A                                                                                 | A                                                                                 |
| Approach Delay          | 37.7                                                                              |                                                                                   | 12.5                                                                              |                                                                                   |                                                                                   | 2.7                                                                               |
| Approach LOS            | D                                                                                 |                                                                                   | B                                                                                 |                                                                                   |                                                                                   | A                                                                                 |
| 90th %ile Green (s)     | 12.7                                                                              |                                                                                   | 49.2                                                                              |                                                                                   | 19.6                                                                              |                                                                                   |
| 90th %ile Term Code     | Gap                                                                               |                                                                                   | Coord                                                                             |                                                                                   | Gap                                                                               |                                                                                   |
| 70th %ile Green (s)     | 10.3                                                                              |                                                                                   | 56.5                                                                              |                                                                                   | 14.7                                                                              |                                                                                   |
| 70th %ile Term Code     | Gap                                                                               |                                                                                   | Coord                                                                             |                                                                                   | Gap                                                                               |                                                                                   |
| 50th %ile Green (s)     | 8.8                                                                               |                                                                                   | 60.0                                                                              |                                                                                   | 12.7                                                                              |                                                                                   |
| 50th %ile Term Code     | Gap                                                                               |                                                                                   | Coord                                                                             |                                                                                   | Gap                                                                               |                                                                                   |
| 30th %ile Green (s)     | 7.2                                                                               |                                                                                   | 64.2                                                                              |                                                                                   | 10.1                                                                              |                                                                                   |
| 30th %ile Term Code     | Gap                                                                               |                                                                                   | Coord                                                                             |                                                                                   | Gap                                                                               |                                                                                   |
| 10th %ile Green (s)     | 0.0                                                                               |                                                                                   | 79.9                                                                              |                                                                                   | 6.1                                                                               |                                                                                   |
| 10th %ile Term Code     | Skip                                                                              |                                                                                   | Coord                                                                             |                                                                                   | Gap                                                                               |                                                                                   |
| Stops (vph)             | 54                                                                                |                                                                                   | 260                                                                               |                                                                                   | 5                                                                                 | 98                                                                                |
| Fuel Used(gal)          | 2                                                                                 |                                                                                   | 5                                                                                 |                                                                                   | 0                                                                                 | 6                                                                                 |
| CO Emissions (g/hr)     | 107                                                                               |                                                                                   | 320                                                                               |                                                                                   | 20                                                                                | 422                                                                               |
| NOx Emissions (g/hr)    | 21                                                                                |                                                                                   | 62                                                                                |                                                                                   | 4                                                                                 | 82                                                                                |
| VOC Emissions (g/hr)    | 25                                                                                |                                                                                   | 74                                                                                |                                                                                   | 5                                                                                 | 98                                                                                |
| Dilemma Vehicles (#)    | 0                                                                                 |                                                                                   | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 |
| Queue Length 50th (ft)  | 35                                                                                |                                                                                   | 152                                                                               |                                                                                   | 2                                                                                 | 52                                                                                |
| Queue Length 95th (ft)  | 78                                                                                |                                                                                   | 309                                                                               |                                                                                   | 7                                                                                 | 105                                                                               |
| Internal Link Dist (ft) | 929                                                                               |                                                                                   | 109                                                                               |                                                                                   |                                                                                   | 1286                                                                              |
| Turn Bay Length (ft)    | 300                                                                               |                                                                                   |                                                                                   |                                                                                   | 500                                                                               |                                                                                   |
| Base Capacity (vph)     | 389                                                                               |                                                                                   | 1199                                                                              |                                                                                   | 768                                                                               | 1578                                                                              |
| Starvation Cap Reductn  | 0                                                                                 |                                                                                   | 354                                                                               |                                                                                   | 0                                                                                 | 0                                                                                 |

Lanes, Volumes, Timings  
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| Lane Group            | WBL  | WBR | NBT  | NBR | SBL  | SBT  |
|-----------------------|------|-----|------|-----|------|------|
| Spillback Cap Reductn | 0    |     | 0    |     | 0    | 0    |
| Storage Cap Reductn   | 0    |     | 0    |     | 0    | 0    |
| Reduced v/c Ratio     | 0.21 |     | 0.64 |     | 0.03 | 0.33 |

Intersection Summary

Area Type: Other

Cycle Length: 95

Actuated Cycle Length: 95

Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.45

Intersection Signal Delay: 9.7

Intersection LOS: A

Intersection Capacity Utilization 42.1%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 10: Fort Shantock Rd

|      |         |  |      |
|------|---------|--|------|
| Ø 1  | Ø 2 (R) |  | Ø 3  |
| 16 s | 54 s    |  | 25 s |

Lanes, Volumes, Timings  
12: Crow Hill Road & Route 32

Background Traffic  
Saturday Peak Hour

|                            |  |  |  |  |  |  |
|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group                 | WBL                                                                               | WBR                                                                               | NBT                                                                               | NBR                                                                               | SBL                                                                               | SBT                                                                               |
| Lane Configurations        |  |  |  |  |  |  |
| Traffic Volume (vph)       | 3                                                                                 | 8                                                                                 | 441                                                                               | 44                                                                                | 19                                                                                | 511                                                                               |
| Future Volume (vph)        | 3                                                                                 | 8                                                                                 | 441                                                                               | 44                                                                                | 19                                                                                | 511                                                                               |
| Ideal Flow (vphpl)         | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              |
| Storage Length (ft)        | 0                                                                                 | 0                                                                                 |                                                                                   | 150                                                                               | 0                                                                                 |                                                                                   |
| Storage Lanes              | 1                                                                                 | 1                                                                                 |                                                                                   | 1                                                                                 | 1                                                                                 |                                                                                   |
| Taper Length (ft)          | 25                                                                                |                                                                                   |                                                                                   |                                                                                   | 25                                                                                |                                                                                   |
| Lane Util. Factor          | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Frt                        |                                                                                   | 0.850                                                                             |                                                                                   | 0.850                                                                             |                                                                                   |                                                                                   |
| Flt Protected              | 0.950                                                                             |                                                                                   |                                                                                   |                                                                                   | 0.950                                                                             |                                                                                   |
| Satd. Flow (prot)          | 1770                                                                              | 1583                                                                              | 1863                                                                              | 1583                                                                              | 1770                                                                              | 1863                                                                              |
| Flt Permitted              | 0.950                                                                             |                                                                                   |                                                                                   |                                                                                   | 0.464                                                                             |                                                                                   |
| Satd. Flow (perm)          | 1770                                                                              | 1583                                                                              | 1863                                                                              | 1583                                                                              | 864                                                                               | 1863                                                                              |
| Right Turn on Red          |                                                                                   | Yes                                                                               |                                                                                   | Yes                                                                               |                                                                                   |                                                                                   |
| Satd. Flow (RTOR)          |                                                                                   | 8                                                                                 |                                                                                   | 46                                                                                |                                                                                   |                                                                                   |
| Link Speed (mph)           | 30                                                                                |                                                                                   | 30                                                                                |                                                                                   |                                                                                   | 30                                                                                |
| Link Distance (ft)         | 928                                                                               |                                                                                   | 1366                                                                              |                                                                                   |                                                                                   | 1150                                                                              |
| Travel Time (s)            | 21.1                                                                              |                                                                                   | 31.0                                                                              |                                                                                   |                                                                                   | 26.1                                                                              |
| Peak Hour Factor           | 0.95                                                                              | 0.95                                                                              | 0.95                                                                              | 0.95                                                                              | 0.95                                                                              | 0.95                                                                              |
| Adj. Flow (vph)            | 3                                                                                 | 8                                                                                 | 464                                                                               | 46                                                                                | 20                                                                                | 538                                                                               |
| Shared Lane Traffic (%)    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Lane Group Flow (vph)      | 3                                                                                 | 8                                                                                 | 464                                                                               | 46                                                                                | 20                                                                                | 538                                                                               |
| Enter Blocked Intersection | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                |
| Lane Alignment             | Left                                                                              | Right                                                                             | Left                                                                              | Right                                                                             | Left                                                                              | Left                                                                              |
| Median Width(ft)           | 12                                                                                |                                                                                   | 12                                                                                |                                                                                   |                                                                                   | 12                                                                                |
| Link Offset(ft)            | 0                                                                                 |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |
| Crosswalk Width(ft)        | 16                                                                                |                                                                                   | 16                                                                                |                                                                                   |                                                                                   | 16                                                                                |
| Two way Left Turn Lane     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Headway Factor             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Turning Speed (mph)        | 15                                                                                | 9                                                                                 |                                                                                   | 9                                                                                 | 15                                                                                |                                                                                   |
| Number of Detectors        | 1                                                                                 | 1                                                                                 | 2                                                                                 | 1                                                                                 | 1                                                                                 | 2                                                                                 |
| Detector Template          | Left                                                                              | Right                                                                             | Thru                                                                              | Right                                                                             | Left                                                                              | Thru                                                                              |
| Leading Detector (ft)      | 20                                                                                | 20                                                                                | 100                                                                               | 20                                                                                | 20                                                                                | 100                                                                               |
| Trailing Detector (ft)     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Detector 1 Position(ft)    | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Detector 1 Size(ft)        | 20                                                                                | 20                                                                                | 6                                                                                 | 20                                                                                | 20                                                                                | 6                                                                                 |
| Detector 1 Type            | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             |
| Detector 1 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Detector 1 Extend (s)      | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Detector 1 Queue (s)       | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Detector 1 Delay (s)       | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Detector 2 Position(ft)    |                                                                                   |                                                                                   | 94                                                                                |                                                                                   |                                                                                   | 94                                                                                |
| Detector 2 Size(ft)        |                                                                                   |                                                                                   | 6                                                                                 |                                                                                   |                                                                                   | 6                                                                                 |
| Detector 2 Type            |                                                                                   |                                                                                   | CI+Ex                                                                             |                                                                                   |                                                                                   | CI+Ex                                                                             |
| Detector 2 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Detector 2 Extend (s)      |                                                                                   |                                                                                   | 0.0                                                                               |                                                                                   |                                                                                   | 0.0                                                                               |
| Turn Type                  | Prot                                                                              | Perm                                                                              | NA                                                                                | Perm                                                                              | D.P+P                                                                             | NA                                                                                |
| Protected Phases           | 3                                                                                 |                                                                                   | 2                                                                                 |                                                                                   | 1                                                                                 | 1.2                                                                               |
| Permitted Phases           |                                                                                   | 3                                                                                 |                                                                                   | 2                                                                                 | 2                                                                                 |                                                                                   |

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|                         |       |       |       |       |       |      |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|------|
| Lane Group              | WBL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | WBR   | NBT   | NBR   | SBL   | SBT  |
| Detector Phase          | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3     | 2     | 2     | 1     | 1 2  |
| Switch Phase            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |       |       |       |      |
| Minimum Initial (s)     | 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.0   | 15.0  | 15.0  | 5.0   |      |
| Minimum Split (s)       | 22.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22.5  | 24.8  | 24.8  | 9.5   |      |
| Total Split (s)         | 22.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22.0  | 24.0  | 24.0  | 14.0  |      |
| Total Split (%)         | 36.7%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36.7% | 40.0% | 40.0% | 23.3% |      |
| Maximum Green (s)       | 18.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18.0  | 17.2  | 17.2  | 10.0  |      |
| Yellow Time (s)         | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.0   | 4.7   | 4.7   | 3.0   |      |
| All-Red Time (s)        | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.0   | 2.1   | 2.1   | 1.0   |      |
| Lost Time Adjust (s)    | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0   | 0.0   | 0.0   | 0.0   |      |
| Total Lost Time (s)     | 4.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.0   | 6.8   | 6.8   | 4.0   |      |
| Lead/Lag                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | Lag   | Lag   | Lead  |      |
| Lead-Lag Optimize?      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | Yes   | Yes   | Yes   |      |
| Vehicle Extension (s)   | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.0   | 3.0   | 3.0   | 3.0   |      |
| Recall Mode             | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | None  | C-Max | C-Max | None  |      |
| Walk Time (s)           | 7.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7.0   | 7.0   | 7.0   |       |      |
| Flash Dont Walk (s)     | 11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11.0  | 11.0  | 11.0  |       |      |
| Pedestrian Calls (#/hr) | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0     | 0     | 0     |       |      |
| Act Effct Green (s)     | 5.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.8   | 37.3  | 37.3  | 49.9  | 57.1 |
| Actuated g/C Ratio      | 0.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.10  | 0.62  | 0.62  | 0.83  | 0.95 |
| v/c Ratio               | 0.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.05  | 0.40  | 0.05  | 0.02  | 0.30 |
| Control Delay           | 24.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15.9  | 10.6  | 4.2   | 1.2   | 1.3  |
| Queue Delay             | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| Total Delay             | 24.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15.9  | 10.6  | 4.2   | 1.2   | 1.3  |
| LOS                     | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B     | B     | A     | A     | A    |
| Approach Delay          | 18.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | 10.0  |       |       | 1.3  |
| Approach LOS            | B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | A     |       |       | A    |
| 90th %ile Green (s)     | 6.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.5   | 20.1  | 20.1  | 18.6  |      |
| 90th %ile Term Code     | Gap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Gap   | Coord | Coord | Gap   |      |
| 70th %ile Green (s)     | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0   | 39.7  | 39.7  | 9.5   |      |
| 70th %ile Term Code     | Skip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Skip  | Coord | Coord | Gap   |      |
| 50th %ile Green (s)     | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0   | 41.1  | 41.1  | 8.1   |      |
| 50th %ile Term Code     | Skip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Skip  | Coord | Coord | Gap   |      |
| 30th %ile Green (s)     | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0   | 42.5  | 42.5  | 6.7   |      |
| 30th %ile Term Code     | Skip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Skip  | Coord | Coord | Gap   |      |
| 10th %ile Green (s)     | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0   | 43.0  | 43.0  | 6.2   |      |
| 10th %ile Term Code     | Skip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Skip  | Coord | Coord | Gap   |      |
| Stops (vph)             | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7     | 220   | 11    | 3     | 47   |
| Fuel Used(gal)          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0     | 7     | 1     | 0     | 5    |
| CO Emissions (g/hr)     | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9     | 480   | 40    | 13    | 348  |
| NOx Emissions (g/hr)    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2     | 93    | 8     | 3     | 68   |
| VOC Emissions (g/hr)    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2     | 111   | 9     | 3     | 81   |
| Dilemma Vehicles (#)    | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0     | 0     | 0     | 0     | 0    |
| Queue Length 50th (ft)  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0     | 56    | 0     | 1     | 0    |
| Queue Length 95th (ft)  | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11    | #274  | 18    | 4     | 75   |
| Internal Link Dist (ft) | 848                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | 1286  |       |       | 1070 |
| Turn Bay Length (ft)    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |       | 150   |       |      |
| Base Capacity (vph)     | 531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 480   | 1157  | 1000  | 923   | 1732 |
| Starvation Cap Reductn  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0     | 0     | 0     | 0     | 0    |

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Background Traffic  
Saturday Peak Hour



| Lane Group            | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
|-----------------------|------|------|------|------|------|------|
| Spillback Cap Reductn | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio     | 0.01 | 0.02 | 0.40 | 0.05 | 0.02 | 0.31 |

Intersection Summary

Area Type: Other

Cycle Length: 60

Actuated Cycle Length: 60

Offset: 53 (88%), Referenced to phase 2:NBSB, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.40

Intersection Signal Delay: 5.6

Intersection LOS: A

Intersection Capacity Utilization 37.7%

ICU Level of Service A

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 12: Crow Hill Road & Route 32

|      |        |      |
|------|--------|------|
| Ø1   | Ø2 (R) | Ø3   |
| 14 s | 24 s   | 22 s |

Lanes, Volumes, Timings  
15: Podurgiel

Background Traffic  
Saturday Peak Hour

|                            |  |  |  |  |  |  |    |    |
|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|
| Lane Group                 | EBL                                                                               | EBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               | Ø5 | Ø7 |
| Lane Configurations        |  |                                                                                   |  |  |  |                                                                                   |    |    |
| Traffic Volume (vph)       | 9                                                                                 | 3                                                                                 | 4                                                                                 | 714                                                                               | 727                                                                               | 10                                                                                |    |    |
| Future Volume (vph)        | 9                                                                                 | 3                                                                                 | 4                                                                                 | 714                                                                               | 727                                                                               | 10                                                                                |    |    |
| Ideal Flow (vphpl)         | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              |    |    |
| Storage Length (ft)        | 0                                                                                 | 0                                                                                 | 60                                                                                |                                                                                   |                                                                                   | 0                                                                                 |    |    |
| Storage Lanes              | 1                                                                                 | 0                                                                                 | 1                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |    |    |
| Taper Length (ft)          | 25                                                                                |                                                                                   | 25                                                                                |                                                                                   |                                                                                   |                                                                                   |    |    |
| Lane Util. Factor          | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.91                                                                              | 0.95                                                                              | 0.95                                                                              |    |    |
| Frt                        | 0.969                                                                             |                                                                                   |                                                                                   |                                                                                   | 0.998                                                                             |                                                                                   |    |    |
| Flt Protected              | 0.963                                                                             |                                                                                   | 0.950                                                                             |                                                                                   |                                                                                   |                                                                                   |    |    |
| Satd. Flow (prot)          | 1738                                                                              | 0                                                                                 | 1770                                                                              | 5085                                                                              | 3532                                                                              | 0                                                                                 |    |    |
| Flt Permitted              | 0.963                                                                             |                                                                                   | 0.335                                                                             |                                                                                   |                                                                                   |                                                                                   |    |    |
| Satd. Flow (perm)          | 1738                                                                              | 0                                                                                 | 624                                                                               | 5085                                                                              | 3532                                                                              | 0                                                                                 |    |    |
| Right Turn on Red          |                                                                                   | Yes                                                                               |                                                                                   |                                                                                   |                                                                                   | Yes                                                                               |    |    |
| Satd. Flow (RTOR)          | 3                                                                                 |                                                                                   |                                                                                   |                                                                                   | 1                                                                                 |                                                                                   |    |    |
| Link Speed (mph)           | 30                                                                                |                                                                                   |                                                                                   | 30                                                                                | 30                                                                                |                                                                                   |    |    |
| Link Distance (ft)         | 532                                                                               |                                                                                   |                                                                                   | 671                                                                               | 101                                                                               |                                                                                   |    |    |
| Travel Time (s)            | 12.1                                                                              |                                                                                   |                                                                                   | 15.3                                                                              | 2.3                                                                               |                                                                                   |    |    |
| Peak Hour Factor           | 0.90                                                                              | 0.90                                                                              | 0.90                                                                              | 0.90                                                                              | 0.90                                                                              | 0.90                                                                              |    |    |
| Adj. Flow (vph)            | 10                                                                                | 3                                                                                 | 4                                                                                 | 793                                                                               | 808                                                                               | 11                                                                                |    |    |
| Shared Lane Traffic (%)    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |    |    |
| Lane Group Flow (vph)      | 13                                                                                | 0                                                                                 | 4                                                                                 | 793                                                                               | 819                                                                               | 0                                                                                 |    |    |
| Enter Blocked Intersection | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                |    |    |
| Lane Alignment             | Left                                                                              | Right                                                                             | Left                                                                              | Left                                                                              | Left                                                                              | Right                                                                             |    |    |
| Median Width(ft)           | 12                                                                                |                                                                                   |                                                                                   | 12                                                                                | 12                                                                                |                                                                                   |    |    |
| Link Offset(ft)            | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   |    |    |
| Crosswalk Width(ft)        | 16                                                                                |                                                                                   |                                                                                   | 16                                                                                | 16                                                                                |                                                                                   |    |    |
| Two way Left Turn Lane     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |    |    |
| Headway Factor             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |    |    |
| Turning Speed (mph)        | 15                                                                                | 9                                                                                 | 15                                                                                |                                                                                   |                                                                                   | 9                                                                                 |    |    |
| Number of Detectors        | 1                                                                                 |                                                                                   | 1                                                                                 | 2                                                                                 | 2                                                                                 |                                                                                   |    |    |
| Detector Template          | Left                                                                              |                                                                                   | Left                                                                              | Thru                                                                              | Thru                                                                              |                                                                                   |    |    |
| Leading Detector (ft)      | 20                                                                                |                                                                                   | 20                                                                                | 100                                                                               | 100                                                                               |                                                                                   |    |    |
| Trailing Detector (ft)     | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |    |    |
| Detector 1 Position(ft)    | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |    |    |
| Detector 1 Size(ft)        | 20                                                                                |                                                                                   | 20                                                                                | 6                                                                                 | 6                                                                                 |                                                                                   |    |    |
| Detector 1 Type            | CI+Ex                                                                             |                                                                                   | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             |                                                                                   |    |    |
| Detector 1 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |    |    |
| Detector 1 Extend (s)      | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |    |    |
| Detector 1 Queue (s)       | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |    |    |
| Detector 1 Delay (s)       | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |    |    |
| Detector 2 Position(ft)    |                                                                                   |                                                                                   |                                                                                   | 94                                                                                | 94                                                                                |                                                                                   |    |    |
| Detector 2 Size(ft)        |                                                                                   |                                                                                   |                                                                                   | 6                                                                                 | 6                                                                                 |                                                                                   |    |    |
| Detector 2 Type            |                                                                                   |                                                                                   |                                                                                   | CI+Ex                                                                             | CI+Ex                                                                             |                                                                                   |    |    |
| Detector 2 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |    |    |
| Detector 2 Extend (s)      |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                               | 0.0                                                                               |                                                                                   |    |    |
| Turn Type                  | Prot                                                                              |                                                                                   | pm+pt                                                                             | NA                                                                                | NA                                                                                |                                                                                   |    |    |
| Protected Phases           | 4                                                                                 |                                                                                   | 1                                                                                 | 6                                                                                 | 2                                                                                 |                                                                                   | 5  | 7  |
| Permitted Phases           |                                                                                   |                                                                                   | 6                                                                                 |                                                                                   |                                                                                   |                                                                                   |    |    |

Lanes, Volumes, Timings  
15: Podurgiel

Background Traffic  
Saturday Peak Hour

|                         |  |  |  |  |  |  |      |      |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|------|
| Lane Group              | EBL                                                                               | EBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               | Ø5   | Ø7   |
| Detector Phase          | 4                                                                                 |                                                                                   | 1                                                                                 | 6                                                                                 | 2                                                                                 |                                                                                   |      |      |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |      |      |
| Minimum Initial (s)     | 4.0                                                                               |                                                                                   | 3.0                                                                               | 15.0                                                                              | 5.0                                                                               |                                                                                   | 4.0  | 5.0  |
| Minimum Split (s)       | 25.2                                                                              |                                                                                   | 9.5                                                                               | 25.0                                                                              | 25.0                                                                              |                                                                                   | 22.0 | 23.4 |
| Total Split (s)         | 15.0                                                                              |                                                                                   | 8.0                                                                               | 37.0                                                                              | 43.0                                                                              |                                                                                   | 14.0 | 34.0 |
| Total Split (%)         | 15.0%                                                                             |                                                                                   | 8.0%                                                                              | 37.0%                                                                             | 43.0%                                                                             |                                                                                   | 14%  | 34%  |
| Maximum Green (s)       | 7.8                                                                               |                                                                                   | 3.7                                                                               | 30.0                                                                              | 36.0                                                                              |                                                                                   | 9.7  | 28.6 |
| Yellow Time (s)         | 3.0                                                                               |                                                                                   | 3.3                                                                               | 4.6                                                                               | 4.6                                                                               |                                                                                   | 3.3  | 3.1  |
| All-Red Time (s)        | 4.2                                                                               |                                                                                   | 1.0                                                                               | 2.4                                                                               | 2.4                                                                               |                                                                                   | 1.0  | 2.3  |
| Lost Time Adjust (s)    | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |      |      |
| Total Lost Time (s)     | 7.2                                                                               |                                                                                   | 4.3                                                                               | 7.0                                                                               | 7.0                                                                               |                                                                                   |      |      |
| Lead/Lag                |                                                                                   |                                                                                   | Lead                                                                              | Lag                                                                               | Lag                                                                               |                                                                                   | Lead |      |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |      |      |
| Vehicle Extension (s)   | 3.0                                                                               |                                                                                   | 3.0                                                                               | 3.0                                                                               | 3.0                                                                               |                                                                                   | 3.0  | 3.0  |
| Recall Mode             | None                                                                              |                                                                                   | None                                                                              | C-Max                                                                             | C-Max                                                                             |                                                                                   | None | None |
| Walk Time (s)           | 7.0                                                                               |                                                                                   |                                                                                   | 7.0                                                                               | 7.0                                                                               |                                                                                   |      | 7.0  |
| Flash Dont Walk (s)     | 11.0                                                                              |                                                                                   |                                                                                   | 11.0                                                                              | 11.0                                                                              |                                                                                   |      | 11.0 |
| Pedestrian Calls (#/hr) | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   |      | 0    |
| Act Effct Green (s)     | 6.2                                                                               |                                                                                   | 67.2                                                                              | 60.0                                                                              | 67.5                                                                              |                                                                                   |      |      |
| Actuated g/C Ratio      | 0.06                                                                              |                                                                                   | 0.67                                                                              | 0.60                                                                              | 0.68                                                                              |                                                                                   |      |      |
| v/c Ratio               | 0.12                                                                              |                                                                                   | 0.01                                                                              | 0.26                                                                              | 0.34                                                                              |                                                                                   |      |      |
| Control Delay           | 40.0                                                                              |                                                                                   | 8.0                                                                               | 12.2                                                                              | 5.2                                                                               |                                                                                   |      |      |
| Queue Delay             | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |      |      |
| Total Delay             | 40.0                                                                              |                                                                                   | 8.0                                                                               | 12.2                                                                              | 5.2                                                                               |                                                                                   |      |      |
| LOS                     | D                                                                                 |                                                                                   | A                                                                                 | B                                                                                 | A                                                                                 |                                                                                   |      |      |
| Approach Delay          | 40.0                                                                              |                                                                                   |                                                                                   | 12.2                                                                              | 5.2                                                                               |                                                                                   |      |      |
| Approach LOS            | D                                                                                 |                                                                                   |                                                                                   | B                                                                                 | A                                                                                 |                                                                                   |      |      |
| 90th %ile Green (s)     | 7.6                                                                               |                                                                                   | 5.9                                                                               | 37.3                                                                              | 41.5                                                                              |                                                                                   | 10.1 | 21.1 |
| 90th %ile Term Code     | Gap                                                                               |                                                                                   | Gap                                                                               | Coord                                                                             | Coord                                                                             |                                                                                   | Gap  | Gap  |
| 70th %ile Green (s)     | 0.0                                                                               |                                                                                   | 0.0                                                                               | 57.9                                                                              | 69.7                                                                              |                                                                                   | 7.5  | 17.9 |
| 70th %ile Term Code     | Skip                                                                              |                                                                                   | Skip                                                                              | Coord                                                                             | Coord                                                                             |                                                                                   | Gap  | Gap  |
| 50th %ile Green (s)     | 0.0                                                                               |                                                                                   | 0.0                                                                               | 61.7                                                                              | 72.8                                                                              |                                                                                   | 6.8  | 14.8 |
| 50th %ile Term Code     | Skip                                                                              |                                                                                   | Skip                                                                              | Coord                                                                             | Coord                                                                             |                                                                                   | Gap  | Gap  |
| 30th %ile Green (s)     | 0.0                                                                               |                                                                                   | 0.0                                                                               | 64.6                                                                              | 75.1                                                                              |                                                                                   | 6.2  | 12.5 |
| 30th %ile Term Code     | Skip                                                                              |                                                                                   | Skip                                                                              | Coord                                                                             | Coord                                                                             |                                                                                   | Gap  | Gap  |
| 10th %ile Green (s)     | 0.0                                                                               |                                                                                   | 0.0                                                                               | 78.4                                                                              | 78.4                                                                              |                                                                                   | 0.0  | 9.2  |
| 10th %ile Term Code     | Skip                                                                              |                                                                                   | Skip                                                                              | Coord                                                                             | Coord                                                                             |                                                                                   | Skip | Gap  |
| Stops (vph)             | 12                                                                                |                                                                                   | 3                                                                                 | 340                                                                               | 224                                                                               |                                                                                   |      |      |
| Fuel Used(gal)          | 0                                                                                 |                                                                                   | 0                                                                                 | 7                                                                                 | 3                                                                                 |                                                                                   |      |      |
| CO Emissions (g/hr)     | 15                                                                                |                                                                                   | 3                                                                                 | 517                                                                               | 181                                                                               |                                                                                   |      |      |
| NOx Emissions (g/hr)    | 3                                                                                 |                                                                                   | 1                                                                                 | 101                                                                               | 35                                                                                |                                                                                   |      |      |
| VOC Emissions (g/hr)    | 3                                                                                 |                                                                                   | 1                                                                                 | 120                                                                               | 42                                                                                |                                                                                   |      |      |
| Dilemma Vehicles (#)    | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |      |      |
| Queue Length 50th (ft)  | 6                                                                                 |                                                                                   | 1                                                                                 | 77                                                                                | 29                                                                                |                                                                                   |      |      |
| Queue Length 95th (ft)  | 25                                                                                |                                                                                   | 6                                                                                 | 171                                                                               | 105                                                                               |                                                                                   |      |      |
| Internal Link Dist (ft) | 452                                                                               |                                                                                   |                                                                                   | 591                                                                               | 21                                                                                |                                                                                   |      |      |
| Turn Bay Length (ft)    |                                                                                   |                                                                                   | 60                                                                                |                                                                                   |                                                                                   |                                                                                   |      |      |
| Base Capacity (vph)     | 138                                                                               |                                                                                   | 483                                                                               | 3049                                                                              | 2384                                                                              |                                                                                   |      |      |
| Starvation Cap Reductn  | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |      |      |

|                       |  |  |  |  |  |  |    |    |
|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|
| Lane Group            | EBL                                                                               | EBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               | Ø5 | Ø7 |
| Spillback Cap Reductn | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |    |    |
| Storage Cap Reductn   | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |    |    |
| Reduced v/c Ratio     | 0.09                                                                              |                                                                                   | 0.01                                                                              | 0.26                                                                              | 0.34                                                                              |                                                                                   |    |    |

#### Intersection Summary

Area Type: Other

Cycle Length: 100

Actuated Cycle Length: 100

Offset: 97 (97%), Referenced to phase 2:SBTL and 6:NBT, Start of Yellow

Natural Cycle: 100

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.63

Intersection Signal Delay: 8.9

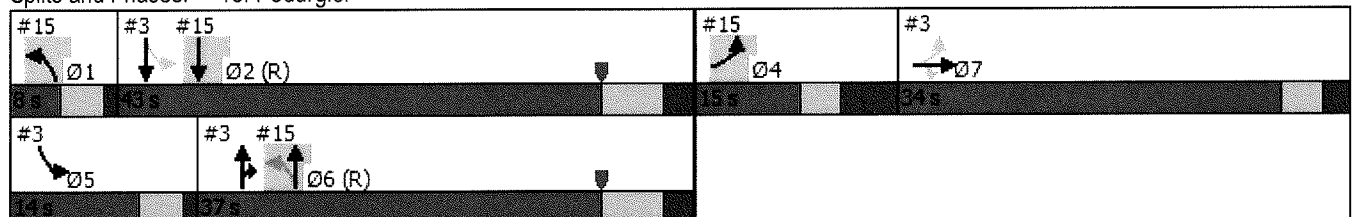
Intersection LOS: A

Intersection Capacity Utilization 35.6%

ICU Level of Service A

Analysis Period (min) 15

#### Splits and Phases: 15: Podurgiel



# Lanes, Volumes, Timings

## 3: Rt 2A EB Ramps

Combined Traffic  
Saturday Peak Hour

|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group                 | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations        |                                                                                   |  |  |                                                                                   |                                                                                   |                                                                                   |                                                                                     |  |  |  |  |                                                                                     |
| Traffic Volume (vph)       | 175                                                                               | 0                                                                                 | 238                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 562                                                                                 | 163                                                                                 | 96                                                                                  | 501                                                                                 | 0                                                                                   |
| Future Volume (vph)        | 175                                                                               | 0                                                                                 | 238                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 562                                                                                 | 163                                                                                 | 96                                                                                  | 501                                                                                 | 0                                                                                   |
| Ideal Flow (vphpl)         | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                                | 1900                                                                                | 1900                                                                                | 1900                                                                                | 1900                                                                                | 1900                                                                                |
| Storage Length (ft)        | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                   |                                                                                     | 175                                                                                 | 225                                                                                 |                                                                                     | 0                                                                                   |
| Storage Lanes              | 0                                                                                 |                                                                                   | 1                                                                                 | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                   |                                                                                     | 0                                                                                   | 1                                                                                   |                                                                                     | 0                                                                                   |
| Taper Length (ft)          | 25                                                                                |                                                                                   |                                                                                   | 25                                                                                |                                                                                   |                                                                                   | 25                                                                                  |                                                                                     |                                                                                     | 25                                                                                  |                                                                                     |                                                                                     |
| Lane Util. Factor          | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 0.95                                                                                | 1.00                                                                                | 1.00                                                                                | 0.95                                                                                | 1.00                                                                                |
| Frnt                       |                                                                                   |                                                                                   | 0.850                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 0.850                                                                               |                                                                                     |                                                                                     |                                                                                     |
| Flt Protected              |                                                                                   | 0.950                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     | 0.950                                                                               |                                                                                     |                                                                                     |
| Satd. Flow (prot)          | 0                                                                                 | 1770                                                                              | 1583                                                                              | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 3539                                                                                | 1583                                                                                | 1770                                                                                | 3539                                                                                | 0                                                                                   |
| Flt Permitted              |                                                                                   | 0.950                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     | 0.401                                                                               |                                                                                     |                                                                                     |
| Satd. Flow (perm)          | 0                                                                                 | 1770                                                                              | 1583                                                                              | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 3539                                                                                | 1583                                                                                | 747                                                                                 | 3539                                                                                | 0                                                                                   |
| Right Turn on Red          |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   |                                                                                   | Yes                                                                               |                                                                                     |                                                                                     | Yes                                                                                 |                                                                                     |                                                                                     | Yes                                                                                 |
| Satd. Flow (RTOR)          |                                                                                   |                                                                                   | 230                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 199                                                                                 |                                                                                     |                                                                                     |                                                                                     |
| Link Speed (mph)           |                                                                                   | 30                                                                                |                                                                                   |                                                                                   | 30                                                                                |                                                                                   |                                                                                     | 30                                                                                  |                                                                                     |                                                                                     | 30                                                                                  |                                                                                     |
| Link Distance (ft)         |                                                                                   | 1278                                                                              |                                                                                   |                                                                                   | 1235                                                                              |                                                                                   |                                                                                     | 101                                                                                 |                                                                                     |                                                                                     | 694                                                                                 |                                                                                     |
| Travel Time (s)            |                                                                                   | 29.0                                                                              |                                                                                   |                                                                                   | 28.1                                                                              |                                                                                   |                                                                                     | 2.3                                                                                 |                                                                                     |                                                                                     | 15.8                                                                                |                                                                                     |
| Peak Hour Factor           | 0.90                                                                              | 0.90                                                                              | 0.90                                                                              | 0.90                                                                              | 0.90                                                                              | 0.90                                                                              | 0.90                                                                                | 0.90                                                                                | 0.90                                                                                | 0.90                                                                                | 0.90                                                                                | 0.90                                                                                |
| Growth Factor              | 87%                                                                               | 87%                                                                               | 87%                                                                               | 87%                                                                               | 87%                                                                               | 87%                                                                               | 87%                                                                                 | 87%                                                                                 | 87%                                                                                 | 87%                                                                                 | 87%                                                                                 | 87%                                                                                 |
| Adj. Flow (vph)            | 169                                                                               | 0                                                                                 | 230                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 543                                                                                 | 158                                                                                 | 93                                                                                  | 484                                                                                 | 0                                                                                   |
| Shared Lane Traffic (%)    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Lane Group Flow (vph)      | 0                                                                                 | 169                                                                               | 230                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 543                                                                                 | 158                                                                                 | 93                                                                                  | 484                                                                                 | 0                                                                                   |
| Enter Blocked Intersection | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  |
| Lane Alignment             | Left                                                                              | Left                                                                              | Right                                                                             | Left                                                                              | Left                                                                              | Right                                                                             | Left                                                                                | Left                                                                                | Right                                                                               | Left                                                                                | Left                                                                                | Right                                                                               |
| Median Width(ft)           |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |                                                                                   |                                                                                     | 12                                                                                  |                                                                                     |                                                                                     | 12                                                                                  |                                                                                     |
| Link Offset(ft)            |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |                                                                                   |                                                                                     | 0                                                                                   |                                                                                     |                                                                                     | 0                                                                                   |                                                                                     |
| Crosswalk Width(ft)        |                                                                                   | 16                                                                                |                                                                                   |                                                                                   | 16                                                                                |                                                                                   |                                                                                     | 16                                                                                  |                                                                                     |                                                                                     | 16                                                                                  |                                                                                     |
| Two way Left Turn Lane     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Headway Factor             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Turning Speed (mph)        | 15                                                                                |                                                                                   | 9                                                                                 | 15                                                                                |                                                                                   | 9                                                                                 | 15                                                                                  |                                                                                     | 9                                                                                   | 15                                                                                  |                                                                                     | 9                                                                                   |
| Number of Detectors        | 1                                                                                 | 2                                                                                 | 1                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 2                                                                                   | 1                                                                                   | 1                                                                                   | 2                                                                                   |                                                                                     |
| Detector Template          | Left                                                                              | Thru                                                                              | Right                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                     | Thru                                                                                | Right                                                                               | Left                                                                                | Thru                                                                                |                                                                                     |
| Leading Detector (ft)      | 20                                                                                | 100                                                                               | 20                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 100                                                                                 | 20                                                                                  | 20                                                                                  | 100                                                                                 |                                                                                     |
| Trailing Detector (ft)     | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |                                                                                     |
| Detector 1 Position(ft)    | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |                                                                                     |
| Detector 1 Size(ft)        | 20                                                                                | 6                                                                                 | 20                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 6                                                                                   | 20                                                                                  | 20                                                                                  | 6                                                                                   |                                                                                     |
| Detector 1 Type            | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                     | CI+Ex                                                                               | CI+Ex                                                                               | CI+Ex                                                                               | CI+Ex                                                                               |                                                                                     |
| Detector 1 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Detector 1 Extend (s)      | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Detector 1 Queue (s)       | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Detector 1 Delay (s)       | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Detector 2 Position(ft)    |                                                                                   | 94                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 94                                                                                  |                                                                                     |                                                                                     | 94                                                                                  |                                                                                     |
| Detector 2 Size(ft)        |                                                                                   | 6                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 6                                                                                   |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |
| Detector 2 Type            |                                                                                   | CI+Ex                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | CI+Ex                                                                               |                                                                                     |                                                                                     | CI+Ex                                                                               |                                                                                     |
| Detector 2 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Detector 2 Extend (s)      |                                                                                   | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 0.0                                                                                 |                                                                                     |                                                                                     | 0.0                                                                                 |                                                                                     |
| Turn Type                  | Perm                                                                              | NA                                                                                | Perm                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                     | NA                                                                                  | custom                                                                              | pm+pt                                                                               | NA                                                                                  |                                                                                     |
| Protected Phases           |                                                                                   | 7                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 6                                                                                   | 6                                                                                   | 5                                                                                   | 2                                                                                   |                                                                                     |

# Lanes, Volumes, Timings

## 3: Rt 2A EB Ramps

Combined Traffic  
Saturday Peak Hour

| Lane Group                 | Ø1 | Ø4 |
|----------------------------|----|----|
| Lane Configurations        |    |    |
| Traffic Volume (vph)       |    |    |
| Future Volume (vph)        |    |    |
| Ideal Flow (vphpl)         |    |    |
| Storage Length (ft)        |    |    |
| Storage Lanes              |    |    |
| Taper Length (ft)          |    |    |
| Lane Util. Factor          |    |    |
| Frt                        |    |    |
| Flt Protected              |    |    |
| Satd. Flow (prot)          |    |    |
| Flt Permitted              |    |    |
| Satd. Flow (perm)          |    |    |
| Right Turn on Red          |    |    |
| Satd. Flow (RTOR)          |    |    |
| Link Speed (mph)           |    |    |
| Link Distance (ft)         |    |    |
| Travel Time (s)            |    |    |
| Peak Hour Factor           |    |    |
| Growth Factor              |    |    |
| Adj. Flow (vph)            |    |    |
| Shared Lane Traffic (%)    |    |    |
| Lane Group Flow (vph)      |    |    |
| Enter Blocked Intersection |    |    |
| Lane Alignment             |    |    |
| Median Width(ft)           |    |    |
| Link Offset(ft)            |    |    |
| Crosswalk Width(ft)        |    |    |
| Two way Left Turn Lane     |    |    |
| Headway Factor             |    |    |
| Turning Speed (mph)        |    |    |
| Number of Detectors        |    |    |
| Detector Template          |    |    |
| Leading Detector (ft)      |    |    |
| Trailing Detector (ft)     |    |    |
| Detector 1 Position(ft)    |    |    |
| Detector 1 Size(ft)        |    |    |
| Detector 1 Type            |    |    |
| Detector 1 Channel         |    |    |
| Detector 1 Extend (s)      |    |    |
| Detector 1 Queue (s)       |    |    |
| Detector 1 Delay (s)       |    |    |
| Detector 2 Position(ft)    |    |    |
| Detector 2 Size(ft)        |    |    |
| Detector 2 Type            |    |    |
| Detector 2 Channel         |    |    |
| Detector 2 Extend (s)      |    |    |
| Turn Type                  |    |    |
| Protected Phases           | 1  | 4  |

Lanes, Volumes, Timings  
3: Rt 2A EB Ramps

Combined Traffic  
Saturday Peak Hour

|                         |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Permitted Phases        | 7                                                                                 |                                                                                   | 7                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 6                                                                                   | 2                                                                                   |                                                                                     |                                                                                     |
| Detector Phase          | 7                                                                                 | 7                                                                                 | 7                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 6                                                                                   | 6                                                                                   | 5                                                                                   | 2                                                                                   |                                                                                     |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Minimum Initial (s)     | 5.0                                                                               | 5.0                                                                               | 5.0                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 15.0                                                                                | 15.0                                                                                | 4.0                                                                                 | 5.0                                                                                 |                                                                                     |
| Minimum Split (s)       | 23.4                                                                              | 23.4                                                                              | 23.4                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 25.0                                                                                | 25.0                                                                                | 22.0                                                                                | 25.0                                                                                |                                                                                     |
| Total Split (s)         | 34.0                                                                              | 34.0                                                                              | 34.0                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 37.0                                                                                | 37.0                                                                                | 14.0                                                                                | 43.0                                                                                |                                                                                     |
| Total Split (%)         | 34.0%                                                                             | 34.0%                                                                             | 34.0%                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 37.0%                                                                               | 37.0%                                                                               | 14.0%                                                                               | 43.0%                                                                               |                                                                                     |
| Maximum Green (s)       | 28.6                                                                              | 28.6                                                                              | 28.6                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 30.0                                                                                | 30.0                                                                                | 9.7                                                                                 | 36.0                                                                                |                                                                                     |
| Yellow Time (s)         | 3.1                                                                               | 3.1                                                                               | 3.1                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 4.6                                                                                 | 4.6                                                                                 | 3.3                                                                                 | 4.6                                                                                 |                                                                                     |
| All-Red Time (s)        | 2.3                                                                               | 2.3                                                                               | 2.3                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 2.4                                                                                 | 2.4                                                                                 | 1.0                                                                                 | 2.4                                                                                 |                                                                                     |
| Lost Time Adjust (s)    |                                                                                   | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Total Lost Time (s)     |                                                                                   | 5.4                                                                               | 5.4                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 7.0                                                                                 | 7.0                                                                                 | 4.3                                                                                 | 7.0                                                                                 |                                                                                     |
| Lead/Lag                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | Lag                                                                                 | Lag                                                                                 | Lead                                                                                | Lag                                                                                 |                                                                                     |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Vehicle Extension (s)   | 3.0                                                                               | 3.0                                                                               | 3.0                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 3.0                                                                                 | 3.0                                                                                 | 3.0                                                                                 | 3.0                                                                                 |                                                                                     |
| Recall Mode             | None                                                                              | None                                                                              | None                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | C-Max                                                                               | C-Max                                                                               | None                                                                                | C-Max                                                                               |                                                                                     |
| Walk Time (s)           | 7.0                                                                               | 7.0                                                                               | 7.0                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 7.0                                                                                 | 7.0                                                                                 |                                                                                     | 7.0                                                                                 |                                                                                     |
| Flash Dont Walk (s)     | 11.0                                                                              | 11.0                                                                              | 11.0                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 11.0                                                                                | 11.0                                                                                |                                                                                     | 11.0                                                                                |                                                                                     |
| Pedestrian Calls (#/hr) | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0                                                                                   | 0                                                                                   |                                                                                     | 0                                                                                   |                                                                                     |
| Act Effct Green (s)     |                                                                                   | 15.2                                                                              | 15.2                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 59.8                                                                                | 59.8                                                                                | 72.1                                                                                | 67.4                                                                                |                                                                                     |
| Actuated g/C Ratio      |                                                                                   | 0.15                                                                              | 0.15                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0.60                                                                                | 0.60                                                                                | 0.72                                                                                | 0.67                                                                                |                                                                                     |
| v/c Ratio               |                                                                                   | 0.63                                                                              | 0.53                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0.26                                                                                | 0.15                                                                                | 0.15                                                                                | 0.20                                                                                |                                                                                     |
| Control Delay           |                                                                                   | 49.5                                                                              | 9.4                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 1.6                                                                                 | 0.3                                                                                 | 3.3                                                                                 | 4.9                                                                                 |                                                                                     |
| Queue Delay             |                                                                                   | 0.0                                                                               | 1.9                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Total Delay             |                                                                                   | 49.5                                                                              | 11.3                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 1.6                                                                                 | 0.3                                                                                 | 3.3                                                                                 | 4.9                                                                                 |                                                                                     |
| LOS                     |                                                                                   | D                                                                                 | B                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | A                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   |                                                                                     |
| Approach Delay          |                                                                                   | 27.5                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 1.3                                                                                 |                                                                                     |                                                                                     | 4.6                                                                                 |                                                                                     |
| Approach LOS            |                                                                                   | C                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | A                                                                                   |                                                                                     |                                                                                     | A                                                                                   |                                                                                     |
| 90th %ile Green (s)     | 21.3                                                                              | 21.3                                                                              | 21.3                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 37.0                                                                                | 37.0                                                                                | 10.2                                                                                | 41.3                                                                                |                                                                                     |
| 90th %ile Term Code     | Gap                                                                               | Gap                                                                               | Gap                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | Coord                                                                               | Coord                                                                               | Gap                                                                                 | Coord                                                                               |                                                                                     |
| 70th %ile Green (s)     | 18.0                                                                              | 18.0                                                                              | 18.0                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 57.8                                                                                | 57.8                                                                                | 7.5                                                                                 | 69.6                                                                                |                                                                                     |
| 70th %ile Term Code     | Gap                                                                               | Gap                                                                               | Gap                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | Coord                                                                               | Coord                                                                               | Gap                                                                                 | Coord                                                                               |                                                                                     |
| 50th %ile Green (s)     | 14.9                                                                              | 14.9                                                                              | 14.9                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 61.6                                                                                | 61.6                                                                                | 6.8                                                                                 | 72.7                                                                                |                                                                                     |
| 50th %ile Term Code     | Gap                                                                               | Gap                                                                               | Gap                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | Coord                                                                               | Coord                                                                               | Gap                                                                                 | Coord                                                                               |                                                                                     |
| 30th %ile Green (s)     | 12.6                                                                              | 12.6                                                                              | 12.6                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 64.4                                                                                | 64.4                                                                                | 6.3                                                                                 | 75.0                                                                                |                                                                                     |
| 30th %ile Term Code     | Gap                                                                               | Gap                                                                               | Gap                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | Coord                                                                               | Coord                                                                               | Gap                                                                                 | Coord                                                                               |                                                                                     |
| 10th %ile Green (s)     | 9.3                                                                               | 9.3                                                                               | 9.3                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 78.3                                                                                | 78.3                                                                                | 0.0                                                                                 | 78.3                                                                                |                                                                                     |
| 10th %ile Term Code     | Gap                                                                               | Gap                                                                               | Gap                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | Coord                                                                               | Coord                                                                               | Skip                                                                                | Coord                                                                               |                                                                                     |
| Stops (vph)             |                                                                                   | 139                                                                               | 26                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 17                                                                                  | 0                                                                                   | 24                                                                                  | 149                                                                                 |                                                                                     |
| Fuel Used(gal)          |                                                                                   | 4                                                                                 | 3                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 1                                                                                   | 0                                                                                   | 1                                                                                   | 4                                                                                   |                                                                                     |
| CO Emissions (g/hr)     |                                                                                   | 267                                                                               | 182                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 45                                                                                  | 8                                                                                   | 45                                                                                  | 253                                                                                 |                                                                                     |
| NOx Emissions (g/hr)    |                                                                                   | 52                                                                                | 35                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 9                                                                                   | 2                                                                                   | 9                                                                                   | 49                                                                                  |                                                                                     |
| VOC Emissions (g/hr)    |                                                                                   | 62                                                                                | 42                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 10                                                                                  | 2                                                                                   | 10                                                                                  | 59                                                                                  |                                                                                     |
| Dilemma Vehicles (#)    |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |                                                                                     |
| Queue Length 50th (ft)  |                                                                                   | 103                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 6                                                                                   | 0                                                                                   | 7                                                                                   | 32                                                                                  |                                                                                     |
| Queue Length 95th (ft)  |                                                                                   | 159                                                                               | 61                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 8                                                                                   | 1                                                                                   | 42                                                                                  | 127                                                                                 |                                                                                     |
| Internal Link Dist (ft) |                                                                                   | 1198                                                                              |                                                                                   |                                                                                   | 1155                                                                              |                                                                                   |                                                                                    | 21                                                                                  |                                                                                     |                                                                                     | 614                                                                                 |                                                                                     |
| Turn Bay Length (ft)    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 175                                                                                 | 225                                                                                 |                                                                                     |                                                                                     |
| Base Capacity (vph)     |                                                                                   | 506                                                                               | 616                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 2117                                                                                | 1026                                                                                | 639                                                                                 | 2384                                                                                |                                                                                     |

Lanes, Volumes, Timings  
3: Rt 2A EB Ramps

Combined Traffic  
Saturday Peak Hour

| Lane Group              | Ø1   | Ø4   |
|-------------------------|------|------|
| Permitted Phases        |      |      |
| Detector Phase          |      |      |
| Switch Phase            |      |      |
| Minimum Initial (s)     | 3.0  | 4.0  |
| Minimum Split (s)       | 9.5  | 25.2 |
| Total Split (s)         | 8.0  | 15.0 |
| Total Split (%)         | 8%   | 15%  |
| Maximum Green (s)       | 3.7  | 7.8  |
| Yellow Time (s)         | 3.3  | 3.0  |
| All-Red Time (s)        | 1.0  | 4.2  |
| Lost Time Adjust (s)    |      |      |
| Total Lost Time (s)     |      |      |
| Lead/Lag                | Lead |      |
| Lead-Lag Optimize?      |      |      |
| Vehicle Extension (s)   | 3.0  | 3.0  |
| Recall Mode             | None | None |
| Walk Time (s)           |      | 7.0  |
| Flash Dont Walk (s)     |      | 11.0 |
| Pedestrian Calls (#/hr) |      | 0    |
| Act Effct Green (s)     |      |      |
| Actuated g/C Ratio      |      |      |
| v/c Ratio               |      |      |
| Control Delay           |      |      |
| Queue Delay             |      |      |
| Total Delay             |      |      |
| LOS                     |      |      |
| Approach Delay          |      |      |
| Approach LOS            |      |      |
| 90th %ile Green (s)     | 5.9  | 7.6  |
| 90th %ile Term Code     | Gap  | Gap  |
| 70th %ile Green (s)     | 0.0  | 0.0  |
| 70th %ile Term Code     | Skip | Skip |
| 50th %ile Green (s)     | 0.0  | 0.0  |
| 50th %ile Term Code     | Skip | Skip |
| 30th %ile Green (s)     | 0.0  | 0.0  |
| 30th %ile Term Code     | Skip | Skip |
| 10th %ile Green (s)     | 0.0  | 0.0  |
| 10th %ile Term Code     | Skip | Skip |
| Stops (vph)             |      |      |
| Fuel Used(gal)          |      |      |
| CO Emissions (g/hr)     |      |      |
| NOx Emissions (g/hr)    |      |      |
| VOC Emissions (g/hr)    |      |      |
| Dilemma Vehicles (#)    |      |      |
| Queue Length 50th (ft)  |      |      |
| Queue Length 95th (ft)  |      |      |
| Internal Link Dist (ft) |      |      |
| Turn Bay Length (ft)    |      |      |
| Base Capacity (vph)     |      |      |

Lanes, Volumes, Timings  
3: Rt 2A EB Ramps

Combined Traffic  
Saturday Peak Hour

|                        |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group             | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Starvation Cap Reductn |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |                                                                                     |
| Spillback Cap Reductn  |                                                                                   | 0                                                                                 | 247                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |                                                                                     |
| Storage Cap Reductn    |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |                                                                                     |
| Reduced v/c Ratio      |                                                                                   | 0.33                                                                              | 0.62                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 0.26                                                                                | 0.15                                                                                | 0.15                                                                                | 0.20                                                                                |                                                                                     |

Intersection Summary

Area Type: Other

Cycle Length: 100

Actuated Cycle Length: 100

Offset: 97 (97%), Referenced to phase 2:SBTL and 6:NBT, Start of Yellow

Natural Cycle: 100

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.63

Intersection Signal Delay: 8.7

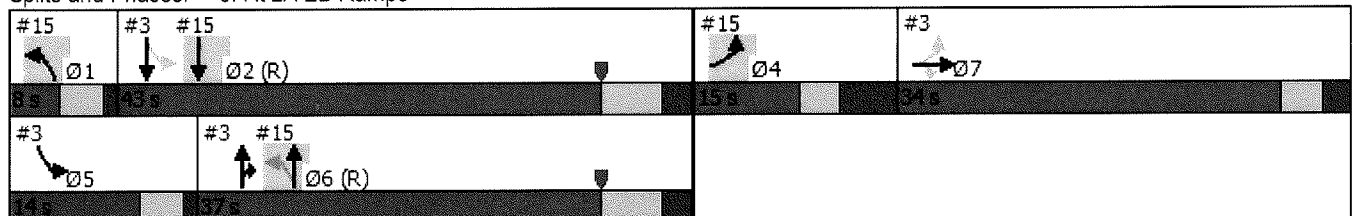
Intersection LOS: A

Intersection Capacity Utilization 40.5%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 3: Rt 2A EB Ramps



| Lane Group             | Ø1 | Ø4 |
|------------------------|----|----|
| Starvation Cap Reductn |    |    |
| Spillback Cap Reductn  |    |    |
| Storage Cap Reductn    |    |    |
| Reduced v/c Ratio      |    |    |
| Intersection Summary   |    |    |

Lanes, Volumes, Timings  
6: Rt 2A WB Ramps

Combined Traffic  
Saturday Peak Hour

|                            |  |  |  |  |  |  |   |  |  |  |  |  |
|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group                 | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations        |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |                                                                                     |                                                                                     |  |  |
| Traffic Volume (vph)       | 0                                                                                 | 0                                                                                 | 0                                                                                 | 189                                                                               | 0                                                                                 | 103                                                                               | 226                                                                                 | 511                                                                                 | 0                                                                                   | 0                                                                                   | 408                                                                                 | 257                                                                                 |
| Future Volume (vph)        | 0                                                                                 | 0                                                                                 | 0                                                                                 | 189                                                                               | 0                                                                                 | 103                                                                               | 226                                                                                 | 511                                                                                 | 0                                                                                   | 0                                                                                   | 408                                                                                 | 257                                                                                 |
| Ideal Flow (vphpl)         | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                                | 1900                                                                                | 1900                                                                                | 1900                                                                                | 1900                                                                                | 1900                                                                                |
| Storage Length (ft)        | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   | 0                                                                                 | 150                                                                                 |                                                                                     | 0                                                                                   | 200                                                                                 |                                                                                     | 200                                                                                 |
| Storage Lanes              | 0                                                                                 |                                                                                   | 0                                                                                 | 1                                                                                 |                                                                                   | 1                                                                                 | 0                                                                                   |                                                                                     | 0                                                                                   | 0                                                                                   |                                                                                     | 0                                                                                   |
| Taper Length (ft)          | 25                                                                                |                                                                                   |                                                                                   | 25                                                                                |                                                                                   |                                                                                   | 25                                                                                  |                                                                                     |                                                                                     | 25                                                                                  |                                                                                     |                                                                                     |
| Lane Util. Factor          | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.95                                                                              | 0.95                                                                              |                                                                                   | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.95                                                                                | 0.95                                                                                |
| Frt                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.850                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 0.942                                                                               |                                                                                     |
| Flt Protected              |                                                                                   |                                                                                   |                                                                                   | 0.950                                                                             | 0.950                                                                             |                                                                                   | 0.950                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Satd. Flow (prot)          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 1681                                                                              | 1681                                                                              | 1583                                                                              | 1770                                                                                | 1863                                                                                | 0                                                                                   | 0                                                                                   | 3334                                                                                | 0                                                                                   |
| Flt Permitted              |                                                                                   |                                                                                   |                                                                                   | 0.950                                                                             | 0.950                                                                             |                                                                                   | 0.361                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Satd. Flow (perm)          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 1681                                                                              | 1681                                                                              | 1583                                                                              | 672                                                                                 | 1863                                                                                | 0                                                                                   | 0                                                                                   | 3334                                                                                | 0                                                                                   |
| Right Turn on Red          |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   |                                                                                   | Yes                                                                               |                                                                                     |                                                                                     | Yes                                                                                 |                                                                                     |                                                                                     | Yes                                                                                 |
| Satd. Flow (RTOR)          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 105                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 160                                                                                 |                                                                                     |
| Link Speed (mph)           |                                                                                   | 30                                                                                |                                                                                   |                                                                                   | 30                                                                                |                                                                                   |                                                                                     | 30                                                                                  |                                                                                     |                                                                                     | 30                                                                                  |                                                                                     |
| Link Distance (ft)         |                                                                                   | 1387                                                                              |                                                                                   |                                                                                   | 1103                                                                              |                                                                                   |                                                                                     | 694                                                                                 |                                                                                     |                                                                                     | 836                                                                                 |                                                                                     |
| Travel Time (s)            |                                                                                   | 31.5                                                                              |                                                                                   |                                                                                   | 25.1                                                                              |                                                                                   |                                                                                     | 15.8                                                                                |                                                                                     |                                                                                     | 19.0                                                                                |                                                                                     |
| Peak Hour Factor           | 0.98                                                                              | 0.98                                                                              | 0.98                                                                              | 0.98                                                                              | 0.98                                                                              | 0.98                                                                              | 0.98                                                                                | 0.98                                                                                | 0.98                                                                                | 0.98                                                                                | 0.98                                                                                | 0.98                                                                                |
| Adj. Flow (vph)            | 0                                                                                 | 0                                                                                 | 0                                                                                 | 193                                                                               | 0                                                                                 | 105                                                                               | 231                                                                                 | 521                                                                                 | 0                                                                                   | 0                                                                                   | 416                                                                                 | 262                                                                                 |
| Shared Lane Traffic (%)    |                                                                                   |                                                                                   |                                                                                   | 50%                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Lane Group Flow (vph)      | 0                                                                                 | 0                                                                                 | 0                                                                                 | 96                                                                                | 97                                                                                | 105                                                                               | 231                                                                                 | 521                                                                                 | 0                                                                                   | 0                                                                                   | 678                                                                                 | 0                                                                                   |
| Enter Blocked Intersection | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  |
| Lane Alignment             | Left                                                                              | Left                                                                              | Right                                                                             | Left                                                                              | Left                                                                              | Right                                                                             | Left                                                                                | Left                                                                                | Right                                                                               | Left                                                                                | Left                                                                                | Right                                                                               |
| Median Width(ft)           |                                                                                   | 12                                                                                |                                                                                   |                                                                                   | 12                                                                                |                                                                                   |                                                                                     | 24                                                                                  |                                                                                     |                                                                                     | 24                                                                                  |                                                                                     |
| Link Offset(ft)            |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |                                                                                   |                                                                                     | 0                                                                                   |                                                                                     |                                                                                     | 0                                                                                   |                                                                                     |
| Crosswalk Width(ft)        |                                                                                   | 16                                                                                |                                                                                   |                                                                                   | 16                                                                                |                                                                                   |                                                                                     | 16                                                                                  |                                                                                     |                                                                                     | 16                                                                                  |                                                                                     |
| Two way Left Turn Lane     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Headway Factor             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Turning Speed (mph)        | 15                                                                                |                                                                                   | 9                                                                                 | 15                                                                                |                                                                                   | 9                                                                                 | 15                                                                                  |                                                                                     | 9                                                                                   | 15                                                                                  |                                                                                     | 9                                                                                   |
| Number of Detectors        |                                                                                   |                                                                                   |                                                                                   | 1                                                                                 | 2                                                                                 | 1                                                                                 | 1                                                                                   | 2                                                                                   |                                                                                     |                                                                                     | 2                                                                                   |                                                                                     |
| Detector Template          |                                                                                   |                                                                                   |                                                                                   | Left                                                                              | Thru                                                                              | Right                                                                             | Left                                                                                | Thru                                                                                |                                                                                     |                                                                                     | Thru                                                                                |                                                                                     |
| Leading Detector (ft)      |                                                                                   |                                                                                   |                                                                                   | 20                                                                                | 100                                                                               | 20                                                                                | 20                                                                                  | 100                                                                                 |                                                                                     |                                                                                     | 100                                                                                 |                                                                                     |
| Trailing Detector (ft)     |                                                                                   |                                                                                   |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   |                                                                                     |                                                                                     | 0                                                                                   |                                                                                     |
| Detector 1 Position(ft)    |                                                                                   |                                                                                   |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   |                                                                                     |                                                                                     | 0                                                                                   |                                                                                     |
| Detector 1 Size(ft)        |                                                                                   |                                                                                   |                                                                                   | 20                                                                                | 6                                                                                 | 20                                                                                | 20                                                                                  | 6                                                                                   |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |
| Detector 1 Type            |                                                                                   |                                                                                   |                                                                                   | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                               | CI+Ex                                                                               |                                                                                     |                                                                                     | CI+Ex                                                                               |                                                                                     |
| Detector 1 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Detector 1 Extend (s)      |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |                                                                                     | 0.0                                                                                 |                                                                                     |
| Detector 1 Queue (s)       |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |                                                                                     | 0.0                                                                                 |                                                                                     |
| Detector 1 Delay (s)       |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |                                                                                     | 0.0                                                                                 |                                                                                     |
| Detector 2 Position(ft)    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 94                                                                                |                                                                                   |                                                                                     | 94                                                                                  |                                                                                     |                                                                                     | 94                                                                                  |                                                                                     |
| Detector 2 Size(ft)        |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 6                                                                                 |                                                                                   |                                                                                     | 6                                                                                   |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |
| Detector 2 Type            |                                                                                   |                                                                                   |                                                                                   |                                                                                   | CI+Ex                                                                             |                                                                                   |                                                                                     | CI+Ex                                                                               |                                                                                     |                                                                                     | CI+Ex                                                                               |                                                                                     |
| Detector 2 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Detector 2 Extend (s)      |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                               |                                                                                   |                                                                                     | 0.0                                                                                 |                                                                                     |                                                                                     | 0.0                                                                                 |                                                                                     |
| Turn Type                  |                                                                                   |                                                                                   |                                                                                   | Perm                                                                              | NA                                                                                | Perm                                                                              | D.P+P                                                                               | NA                                                                                  |                                                                                     |                                                                                     | NA                                                                                  |                                                                                     |
| Protected Phases           |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 3                                                                                 |                                                                                   | 1                                                                                   | 1 2                                                                                 |                                                                                     |                                                                                     | 2                                                                                   |                                                                                     |
| Permitted Phases           |                                                                                   |                                                                                   |                                                                                   | 3                                                                                 |                                                                                   | 3                                                                                 | 2                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Lanes, Volumes, Timings  
6: Rt 2A WB Ramps

Combined Traffic  
Saturday Peak Hour

|                         |  |      |     |       |       |       |       |      |     |     |       |     |
|-------------------------|------------------------------------------------------------------------------------|------|-----|-------|-------|-------|-------|------|-----|-----|-------|-----|
| Lane Group              | EBL                                                                                | EBT  | EBR | WBL   | WBT   | WBR   | NBL   | NBT  | NBR | SBL | SBT   | SBR |
| Detector Phase          |                                                                                    |      |     | 3     | 3     | 3     | 1     | 1 2  |     |     | 2     |     |
| Switch Phase            |                                                                                    |      |     |       |       |       |       |      |     |     |       |     |
| Minimum Initial (s)     |                                                                                    |      |     | 5.0   | 5.0   | 5.0   | 5.0   |      |     |     | 15.0  |     |
| Minimum Split (s)       |                                                                                    |      |     | 22.5  | 22.5  | 22.5  | 9.5   |      |     |     | 22.9  |     |
| Total Split (s)         |                                                                                    |      |     | 20.0  | 20.0  | 20.0  | 37.0  |      |     |     | 43.0  |     |
| Total Split (%)         |                                                                                    |      |     | 20.0% | 20.0% | 20.0% | 37.0% |      |     |     | 43.0% |     |
| Maximum Green (s)       |                                                                                    |      |     | 15.6  | 15.6  | 15.6  | 33.0  |      |     |     | 38.1  |     |
| Yellow Time (s)         |                                                                                    |      |     | 3.3   | 3.3   | 3.3   | 3.0   |      |     |     | 3.9   |     |
| All-Red Time (s)        |                                                                                    |      |     | 1.1   | 1.1   | 1.1   | 1.0   |      |     |     | 1.0   |     |
| Lost Time Adjust (s)    |                                                                                    |      |     | 0.0   | 0.0   | 0.0   | 0.0   |      |     |     | 0.0   |     |
| Total Lost Time (s)     |                                                                                    |      |     | 4.4   | 4.4   | 4.4   | 4.0   |      |     |     | 4.9   |     |
| Lead/Lag                |                                                                                    |      |     |       |       |       | Lead  |      |     |     | Lag   |     |
| Lead-Lag Optimize?      |                                                                                    |      |     |       |       |       |       |      |     |     |       |     |
| Vehicle Extension (s)   |                                                                                    |      |     | 3.0   | 3.0   | 3.0   | 3.0   |      |     |     | 3.0   |     |
| Recall Mode             |                                                                                    |      |     | None  | None  | None  | None  |      |     |     | C-Max |     |
| Walk Time (s)           |                                                                                    |      |     | 7.0   | 7.0   | 7.0   |       |      |     |     | 7.0   |     |
| Flash Dont Walk (s)     |                                                                                    |      |     | 11.0  | 11.0  | 11.0  |       |      |     |     | 11.0  |     |
| Pedestrian Calls (/hr)  |                                                                                    |      |     | 0     | 0     | 0     |       |      |     |     | 0     |     |
| Act Effct Green (s)     |                                                                                    |      |     | 11.1  | 11.1  | 11.1  | 76.5  | 80.5 |     |     | 59.7  |     |
| Actuated g/C Ratio      |                                                                                    |      |     | 0.11  | 0.11  | 0.11  | 0.76  | 0.80 |     |     | 0.60  |     |
| v/c Ratio               |                                                                                    |      |     | 0.52  | 0.52  | 0.39  | 0.34  | 0.35 |     |     | 0.33  |     |
| Control Delay           |                                                                                    |      |     | 50.9  | 51.1  | 12.2  | 5.7   | 5.8  |     |     | 4.2   |     |
| Queue Delay             |                                                                                    |      |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |     |     | 0.0   |     |
| Total Delay             |                                                                                    |      |     | 50.9  | 51.1  | 12.2  | 5.7   | 5.8  |     |     | 4.2   |     |
| LOS                     |                                                                                    |      |     | D     | D     | B     | A     | A    |     |     | A     |     |
| Approach Delay          |                                                                                    |      |     |       | 37.3  |       |       | 5.8  |     |     | 4.2   |     |
| Approach LOS            |                                                                                    |      |     |       | D     |       |       | A    |     |     | A     |     |
| 90th %ile Green (s)     |                                                                                    |      |     | 15.6  | 15.6  | 15.6  | 24.8  |      |     |     | 46.3  |     |
| 90th %ile Term Code     |                                                                                    |      |     | Max   | Max   | Max   | Gap   |      |     |     | Coord |     |
| 70th %ile Green (s)     |                                                                                    |      |     | 12.9  | 12.9  | 12.9  | 18.4  |      |     |     | 55.4  |     |
| 70th %ile Term Code     |                                                                                    |      |     | Gap   | Gap   | Gap   | Gap   |      |     |     | Coord |     |
| 50th %ile Green (s)     |                                                                                    |      |     | 11.1  | 11.1  | 11.1  | 15.0  |      |     |     | 60.6  |     |
| 50th %ile Term Code     |                                                                                    |      |     | Gap   | Gap   | Gap   | Gap   |      |     |     | Coord |     |
| 30th %ile Green (s)     |                                                                                    |      |     | 9.3   | 9.3   | 9.3   | 12.1  |      |     |     | 65.3  |     |
| 30th %ile Term Code     |                                                                                    |      |     | Gap   | Gap   | Gap   | Gap   |      |     |     | Coord |     |
| 10th %ile Green (s)     |                                                                                    |      |     | 6.7   | 6.7   | 6.7   | 8.9   |      |     |     | 71.1  |     |
| 10th %ile Term Code     |                                                                                    |      |     | Gap   | Gap   | Gap   | Gap   |      |     |     | Coord |     |
| Stops (vph)             |                                                                                    |      |     | 85    | 86    | 20    | 87    | 204  |     |     | 148   |     |
| Fuel Used(gal)          |                                                                                    |      |     | 2     | 2     | 1     | 2     | 4    |     |     | 6     |     |
| CO Emissions (g/hr)     |                                                                                    |      |     | 157   | 159   | 88    | 137   | 314  |     |     | 399   |     |
| NOx Emissions (g/hr)    |                                                                                    |      |     | 31    | 31    | 17    | 27    | 61   |     |     | 78    |     |
| VOC Emissions (g/hr)    |                                                                                    |      |     | 36    | 37    | 20    | 32    | 73   |     |     | 92    |     |
| Dilemma Vehicles (#)    |                                                                                    |      |     | 0     | 0     | 0     | 0     | 0    |     |     | 0     |     |
| Queue Length 50th (ft)  |                                                                                    |      |     | 62    | 62    | 0     | 30    | 61   |     |     | 0     |     |
| Queue Length 95th (ft)  |                                                                                    |      |     | 111   | 111   | 46    | 78    | 320  |     |     | 168   |     |
| Internal Link Dist (ft) |                                                                                    | 1307 |     |       | 1023  |       |       | 614  |     |     | 756   |     |
| Turn Bay Length (ft)    |                                                                                    |      |     |       |       |       | 150   |      |     |     |       |     |
| Base Capacity (vph)     |                                                                                    |      |     | 262   | 262   | 335   | 903   | 1499 |     |     | 2056  |     |
| Starvation Cap Reductn  |                                                                                    |      |     | 0     | 0     | 0     | 0     | 0    |     |     | 0     |     |

# Lanes, Volumes, Timings 6: Rt 2A WB Ramps

Combined Traffic  
Saturday Peak Hour

|                       |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group            | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Spillback Cap Reductn |                                                                                   |                                                                                   |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   |                                                                                     |                                                                                     | 0                                                                                   |                                                                                     |
| Storage Cap Reductn   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   |                                                                                     |                                                                                     | 0                                                                                   |                                                                                     |
| Reduced v/c Ratio     |                                                                                   |                                                                                   |                                                                                   | 0.37                                                                              | 0.37                                                                              | 0.31                                                                              | 0.26                                                                                | 0.35                                                                                |                                                                                     |                                                                                     | 0.33                                                                                |                                                                                     |

## Intersection Summary

Area Type: Other

Cycle Length: 100

Actuated Cycle Length: 100

Offset: 61 (61%), Referenced to phase 2:NBSB, Start of Yellow

Natural Cycle: 55

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.52

Intersection Signal Delay: 10.6

Intersection LOS: B

Intersection Capacity Utilization 48.4%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 6: Rt 2A WB Ramps

|                                                                                      |                                                                                          |                                                                                        |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|  Ø1 |  Ø2 (R) |  Ø3 |
| 37 s                                                                                 | 43 s                                                                                     | 20 s                                                                                   |

Lanes, Volumes, Timings  
8: Gallivan Lane

Combined Traffic  
Saturday Peak Hour

|                            |  |  |  |  |  |  |
|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group                 | EBL                                                                               | EBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               |
| Lane Configurations        |  |                                                                                   |  |  |  |                                                                                   |
| Traffic Volume (vph)       | 23                                                                                | 127                                                                               | 113                                                                               | 500                                                                               | 537                                                                               | 15                                                                                |
| Future Volume (vph)        | 23                                                                                | 127                                                                               | 113                                                                               | 500                                                                               | 537                                                                               | 15                                                                                |
| Ideal Flow (vphpl)         | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              |
| Storage Length (ft)        | 0                                                                                 | 0                                                                                 | 100                                                                               |                                                                                   |                                                                                   | 175                                                                               |
| Storage Lanes              | 1                                                                                 | 0                                                                                 | 1                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |
| Taper Length (ft)          | 25                                                                                |                                                                                   | 25                                                                                |                                                                                   |                                                                                   |                                                                                   |
| Lane Util. Factor          | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.95                                                                              | 0.95                                                                              |
| Frt                        | 0.885                                                                             |                                                                                   |                                                                                   |                                                                                   | 0.996                                                                             |                                                                                   |
| Flt Protected              | 0.992                                                                             |                                                                                   | 0.950                                                                             |                                                                                   |                                                                                   |                                                                                   |
| Satd. Flow (prot)          | 1635                                                                              | 0                                                                                 | 1770                                                                              | 1863                                                                              | 3525                                                                              | 0                                                                                 |
| Flt Permitted              | 0.992                                                                             |                                                                                   | 0.409                                                                             |                                                                                   |                                                                                   |                                                                                   |
| Satd. Flow (perm)          | 1635                                                                              | 0                                                                                 | 762                                                                               | 1863                                                                              | 3525                                                                              | 0                                                                                 |
| Right Turn on Red          |                                                                                   | Yes                                                                               |                                                                                   |                                                                                   |                                                                                   | Yes                                                                               |
| Satd. Flow (RTOR)          | 140                                                                               |                                                                                   |                                                                                   |                                                                                   | 5                                                                                 |                                                                                   |
| Link Speed (mph)           | 30                                                                                |                                                                                   |                                                                                   | 30                                                                                | 30                                                                                |                                                                                   |
| Link Distance (ft)         | 1408                                                                              |                                                                                   |                                                                                   | 836                                                                               | 286                                                                               |                                                                                   |
| Travel Time (s)            | 32.0                                                                              |                                                                                   |                                                                                   | 19.0                                                                              | 6.5                                                                               |                                                                                   |
| Peak Hour Factor           | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              |
| Adj. Flow (vph)            | 25                                                                                | 140                                                                               | 124                                                                               | 549                                                                               | 590                                                                               | 16                                                                                |
| Shared Lane Traffic (%)    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Lane Group Flow (vph)      | 165                                                                               | 0                                                                                 | 124                                                                               | 549                                                                               | 606                                                                               | 0                                                                                 |
| Enter Blocked Intersection | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                |
| Lane Alignment             | Left                                                                              | Right                                                                             | Left                                                                              | Left                                                                              | Left                                                                              | Right                                                                             |
| Median Width(ft)           | 12                                                                                |                                                                                   |                                                                                   | 12                                                                                | 12                                                                                |                                                                                   |
| Link Offset(ft)            | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   |
| Crosswalk Width(ft)        | 16                                                                                |                                                                                   |                                                                                   | 16                                                                                | 16                                                                                |                                                                                   |
| Two way Left Turn Lane     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Headway Factor             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Turning Speed (mph)        | 15                                                                                | 9                                                                                 | 15                                                                                |                                                                                   |                                                                                   | 9                                                                                 |
| Number of Detectors        | 1                                                                                 |                                                                                   | 1                                                                                 | 2                                                                                 | 2                                                                                 |                                                                                   |
| Detector Template          | Left                                                                              |                                                                                   | Left                                                                              | Thru                                                                              | Thru                                                                              |                                                                                   |
| Leading Detector (ft)      | 20                                                                                |                                                                                   | 20                                                                                | 100                                                                               | 100                                                                               |                                                                                   |
| Trailing Detector (ft)     | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |
| Detector 1 Position(ft)    | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |
| Detector 1 Size(ft)        | 20                                                                                |                                                                                   | 20                                                                                | 6                                                                                 | 6                                                                                 |                                                                                   |
| Detector 1 Type            | CI+Ex                                                                             |                                                                                   | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             |                                                                                   |
| Detector 1 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Detector 1 Extend (s)      | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |
| Detector 1 Queue (s)       | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |
| Detector 1 Delay (s)       | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |
| Detector 2 Position(ft)    |                                                                                   |                                                                                   |                                                                                   | 94                                                                                | 94                                                                                |                                                                                   |
| Detector 2 Size(ft)        |                                                                                   |                                                                                   |                                                                                   | 6                                                                                 | 6                                                                                 |                                                                                   |
| Detector 2 Type            |                                                                                   |                                                                                   |                                                                                   | CI+Ex                                                                             | CI+Ex                                                                             |                                                                                   |
| Detector 2 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Detector 2 Extend (s)      |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                               | 0.0                                                                               |                                                                                   |
| Turn Type                  | Prot                                                                              |                                                                                   | D.P+P                                                                             | NA                                                                                | NA                                                                                |                                                                                   |
| Protected Phases           | 4                                                                                 |                                                                                   | 1                                                                                 | 1 2                                                                               | 2                                                                                 |                                                                                   |
| Permitted Phases           |                                                                                   |                                                                                   | 2                                                                                 |                                                                                   |                                                                                   |                                                                                   |

Lanes, Volumes, Timings  
8: Gallivan Lane

Combined Traffic  
Saturday Peak Hour



| Lane Group              | EBL   | EBR | NBL   | NBT  | SBT   | SBR |
|-------------------------|-------|-----|-------|------|-------|-----|
| Detector Phase          | 4     |     | 1     | 1 2  | 2     |     |
| Switch Phase            |       |     |       |      |       |     |
| Minimum Initial (s)     | 7.0   |     | 5.0   |      | 15.0  |     |
| Minimum Split (s)       | 22.5  |     | 9.5   |      | 23.6  |     |
| Total Split (s)         | 23.0  |     | 13.0  |      | 64.0  |     |
| Total Split (%)         | 23.0% |     | 13.0% |      | 64.0% |     |
| Maximum Green (s)       | 19.0  |     | 9.0   |      | 58.4  |     |
| Yellow Time (s)         | 3.0   |     | 3.0   |      | 4.6   |     |
| All-Red Time (s)        | 1.0   |     | 1.0   |      | 1.0   |     |
| Lost Time Adjust (s)    | 0.0   |     | 0.0   |      | 0.0   |     |
| Total Lost Time (s)     | 4.0   |     | 4.0   |      | 5.6   |     |
| Lead/Lag                |       |     | Lead  |      | Lag   |     |
| Lead-Lag Optimize?      |       |     | Yes   |      | Yes   |     |
| Vehicle Extension (s)   | 3.0   |     | 3.0   |      | 3.0   |     |
| Recall Mode             | None  |     | None  |      | C-Max |     |
| Walk Time (s)           | 7.0   |     |       |      | 7.0   |     |
| Flash Dont Walk (s)     | 11.0  |     |       |      | 11.0  |     |
| Pedestrian Calls (#/hr) | 0     |     |       |      | 0     |     |
| Act Effct Green (s)     | 8.9   |     | 79.1  | 83.1 | 64.3  |     |
| Actuated g/C Ratio      | 0.09  |     | 0.79  | 0.83 | 0.64  |     |
| v/c Ratio               | 0.61  |     | 0.17  | 0.35 | 0.27  |     |
| Control Delay           | 20.5  |     | 1.8   | 2.0  | 8.6   |     |
| Queue Delay             | 0.0   |     | 0.0   | 0.0  | 0.0   |     |
| Total Delay             | 20.5  |     | 1.8   | 2.0  | 8.6   |     |
| LOS                     | C     |     | A     | A    | A     |     |
| Approach Delay          | 20.5  |     |       | 2.0  | 8.6   |     |
| Approach LOS            | C     |     |       | A    | A     |     |
| 90th %ile Green (s)     | 13.5  |     | 14.5  |      | 58.4  |     |
| 90th %ile Term Code     | Gap   |     | Max   |      | Coord |     |
| 70th %ile Green (s)     | 9.7   |     | 17.3  |      | 59.4  |     |
| 70th %ile Term Code     | Gap   |     | Gap   |      | Coord |     |
| 50th %ile Green (s)     | 7.1   |     | 13.8  |      | 65.5  |     |
| 50th %ile Term Code     | Gap   |     | Gap   |      | Coord |     |
| 30th %ile Green (s)     | 7.0   |     | 11.6  |      | 67.8  |     |
| 30th %ile Term Code     | Min   |     | Gap   |      | Coord |     |
| 10th %ile Green (s)     | 7.0   |     | 9.2   |      | 70.2  |     |
| 10th %ile Term Code     | Min   |     | Gap   |      | Coord |     |
| Stops (vph)             | 38    |     | 15    | 60   | 226   |     |
| Fuel Used(gal)          | 2     |     | 1     | 4    | 4     |     |
| CO Emissions (g/hr)     | 174   |     | 60    | 265  | 298   |     |
| NOx Emissions (g/hr)    | 34    |     | 12    | 52   | 58    |     |
| VOC Emissions (g/hr)    | 40    |     | 14    | 61   | 69    |     |
| Dilemma Vehicles (#)    | 0     |     | 0     | 0    | 0     |     |
| Queue Length 50th (ft)  | 15    |     | 3     | 13   | 75    |     |
| Queue Length 95th (ft)  | 75    |     | 29    | 107  | 126   |     |
| Internal Link Dist (ft) | 1328  |     |       | 756  | 206   |     |
| Turn Bay Length (ft)    |       |     | 100   |      |       |     |
| Base Capacity (vph)     | 424   |     | 736   | 1548 | 2266  |     |
| Starvation Cap Reductn  | 0     |     | 0     | 0    | 0     |     |

Lanes, Volumes, Timings  
8: Gallivan Lane

Combined Traffic  
Saturday Peak Hour



| Lane Group            | EBL  | EBR | NBL  | NBT  | SBT  | SBR |
|-----------------------|------|-----|------|------|------|-----|
| Spillback Cap Reductn | 0    |     | 0    | 0    | 0    |     |
| Storage Cap Reductn   | 0    |     | 0    | 0    | 0    |     |
| Reduced v/c Ratio     | 0.39 |     | 0.17 | 0.35 | 0.27 |     |

Intersection Summary

Area Type: Other

Cycle Length: 100

Actuated Cycle Length: 100

Offset: 48 (48%), Referenced to phase 2:NBSB and 6:, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.61

Intersection Signal Delay: 6.9

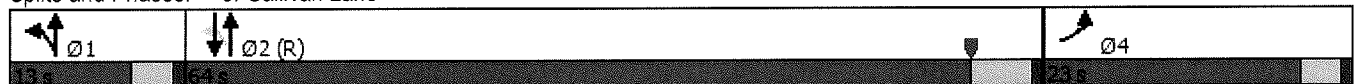
Intersection LOS: A

Intersection Capacity Utilization 42.1%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 8: Gallivan Lane



Lanes, Volumes, Timings  
10: Site Dr/Fort Shantock Rd

Combined Traffic  
Saturday Peak Hour

|                            |  |  |  |  |  |  |   |  |  |  |  |  |
|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group                 | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations        |                                                                                   |  |                                                                                   |                                                                                   |  |                                                                                   |  |  |                                                                                     |  |  |                                                                                     |
| Traffic Volume (vph)       | 3                                                                                 | 1                                                                                 | 7                                                                                 | 54                                                                                | 1                                                                                 | 25                                                                                | 7                                                                                   | 460                                                                                 | 56                                                                                  | 23                                                                                  | 491                                                                                 | 4                                                                                   |
| Future Volume (vph)        | 3                                                                                 | 1                                                                                 | 7                                                                                 | 54                                                                                | 1                                                                                 | 25                                                                                | 7                                                                                   | 460                                                                                 | 56                                                                                  | 23                                                                                  | 491                                                                                 | 4                                                                                   |
| Ideal Flow (vphpl)         | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                                | 1900                                                                                | 1900                                                                                | 1900                                                                                | 1900                                                                                | 1900                                                                                |
| Storage Length (ft)        | 0                                                                                 |                                                                                   | 0                                                                                 | 300                                                                               |                                                                                   | 0                                                                                 | 150                                                                                 |                                                                                     | 150                                                                                 | 500                                                                                 |                                                                                     | 0                                                                                   |
| Storage Lanes              | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   | 0                                                                                 | 1                                                                                   |                                                                                     | 0                                                                                   | 1                                                                                   |                                                                                     | 0                                                                                   |
| Taper Length (ft)          | 25                                                                                |                                                                                   |                                                                                   | 25                                                                                |                                                                                   |                                                                                   | 25                                                                                  |                                                                                     |                                                                                     | 25                                                                                  |                                                                                     |                                                                                     |
| Lane Util. Factor          | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Frt                        |                                                                                   | 0.910                                                                             |                                                                                   |                                                                                   | 0.958                                                                             |                                                                                   |                                                                                     | 0.984                                                                               |                                                                                     |                                                                                     | 0.999                                                                               |                                                                                     |
| Flt Protected              |                                                                                   | 0.988                                                                             |                                                                                   |                                                                                   | 0.967                                                                             |                                                                                   | 0.950                                                                               |                                                                                     |                                                                                     | 0.950                                                                               |                                                                                     |                                                                                     |
| Satd. Flow (prot)          | 0                                                                                 | 1675                                                                              | 0                                                                                 | 0                                                                                 | 1726                                                                              | 0                                                                                 | 1770                                                                                | 1833                                                                                | 0                                                                                   | 1770                                                                                | 1861                                                                                | 0                                                                                   |
| Flt Permitted              |                                                                                   | 0.948                                                                             |                                                                                   |                                                                                   | 0.790                                                                             |                                                                                   | 0.455                                                                               |                                                                                     |                                                                                     | 0.424                                                                               |                                                                                     |                                                                                     |
| Satd. Flow (perm)          | 0                                                                                 | 1607                                                                              | 0                                                                                 | 0                                                                                 | 1410                                                                              | 0                                                                                 | 848                                                                                 | 1833                                                                                | 0                                                                                   | 790                                                                                 | 1861                                                                                | 0                                                                                   |
| Right Turn on Red          |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   |                                                                                   | Yes                                                                               |                                                                                     |                                                                                     | Yes                                                                                 |                                                                                     |                                                                                     | Yes                                                                                 |
| Satd. Flow (RTOR)          |                                                                                   | 8                                                                                 |                                                                                   |                                                                                   | 22                                                                                |                                                                                   |                                                                                     | 9                                                                                   |                                                                                     |                                                                                     | 1                                                                                   |                                                                                     |
| Link Speed (mph)           |                                                                                   | 30                                                                                |                                                                                   |                                                                                   | 30                                                                                |                                                                                   |                                                                                     | 30                                                                                  |                                                                                     |                                                                                     | 30                                                                                  |                                                                                     |
| Link Distance (ft)         |                                                                                   | 625                                                                               |                                                                                   |                                                                                   | 1009                                                                              |                                                                                   |                                                                                     | 189                                                                                 |                                                                                     |                                                                                     | 1366                                                                                |                                                                                     |
| Travel Time (s)            |                                                                                   | 14.2                                                                              |                                                                                   |                                                                                   | 22.9                                                                              |                                                                                   |                                                                                     | 4.3                                                                                 |                                                                                     |                                                                                     | 31.0                                                                                |                                                                                     |
| Peak Hour Factor           | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.95                                                                              | 0.92                                                                              | 0.95                                                                              | 0.92                                                                                | 0.95                                                                                | 0.95                                                                                | 0.95                                                                                | 0.95                                                                                | 0.92                                                                                |
| Adj. Flow (vph)            | 3                                                                                 | 1                                                                                 | 8                                                                                 | 57                                                                                | 1                                                                                 | 26                                                                                | 8                                                                                   | 484                                                                                 | 59                                                                                  | 24                                                                                  | 517                                                                                 | 4                                                                                   |
| Shared Lane Traffic (%)    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Lane Group Flow (vph)      | 0                                                                                 | 12                                                                                | 0                                                                                 | 0                                                                                 | 84                                                                                | 0                                                                                 | 8                                                                                   | 543                                                                                 | 0                                                                                   | 24                                                                                  | 521                                                                                 | 0                                                                                   |
| Enter Blocked Intersection | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  |
| Lane Alignment             | Left                                                                              | Left                                                                              | Right                                                                             | Left                                                                              | Left                                                                              | Right                                                                             | Left                                                                                | Left                                                                                | Right                                                                               | Left                                                                                | Left                                                                                | Right                                                                               |
| Median Width(ft)           |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |                                                                                   |                                                                                     | 12                                                                                  |                                                                                     |                                                                                     | 12                                                                                  |                                                                                     |
| Link Offset(ft)            |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |                                                                                   |                                                                                     | 0                                                                                   |                                                                                     |                                                                                     | 0                                                                                   |                                                                                     |
| Crosswalk Width(ft)        |                                                                                   | 16                                                                                |                                                                                   |                                                                                   | 16                                                                                |                                                                                   |                                                                                     | 16                                                                                  |                                                                                     |                                                                                     | 16                                                                                  |                                                                                     |
| Two way Left Turn Lane     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Headway Factor             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Turning Speed (mph)        | 15                                                                                |                                                                                   | 9                                                                                 | 15                                                                                |                                                                                   | 9                                                                                 | 15                                                                                  |                                                                                     | 9                                                                                   | 15                                                                                  |                                                                                     | 9                                                                                   |
| Number of Detectors        | 1                                                                                 | 2                                                                                 |                                                                                   | 1                                                                                 | 2                                                                                 |                                                                                   | 1                                                                                   | 2                                                                                   |                                                                                     | 1                                                                                   | 2                                                                                   |                                                                                     |
| Detector Template          | Left                                                                              | Thru                                                                              |                                                                                   | Left                                                                              | Thru                                                                              |                                                                                   | Left                                                                                | Thru                                                                                |                                                                                     | Left                                                                                | Thru                                                                                |                                                                                     |
| Leading Detector (ft)      | 20                                                                                | 100                                                                               |                                                                                   | 20                                                                                | 100                                                                               |                                                                                   | 20                                                                                  | 100                                                                                 |                                                                                     | 20                                                                                  | 100                                                                                 |                                                                                     |
| Trailing Detector (ft)     | 0                                                                                 | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   | 0                                                                                   | 0                                                                                   |                                                                                     | 0                                                                                   | 0                                                                                   |                                                                                     |
| Detector 1 Position(ft)    | 0                                                                                 | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   | 0                                                                                   | 0                                                                                   |                                                                                     | 0                                                                                   | 0                                                                                   |                                                                                     |
| Detector 1 Size(ft)        | 20                                                                                | 6                                                                                 |                                                                                   | 20                                                                                | 6                                                                                 |                                                                                   | 20                                                                                  | 6                                                                                   |                                                                                     | 20                                                                                  | 6                                                                                   |                                                                                     |
| Detector 1 Type            | CI+Ex                                                                             | CI+Ex                                                                             |                                                                                   | CI+Ex                                                                             | CI+Ex                                                                             |                                                                                   | CI+Ex                                                                               | CI+Ex                                                                               |                                                                                     | CI+Ex                                                                               | CI+Ex                                                                               |                                                                                     |
| Detector 1 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Detector 1 Extend (s)      | 0.0                                                                               | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               |                                                                                   | 0.0                                                                                 | 0.0                                                                                 |                                                                                     | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Detector 1 Queue (s)       | 0.0                                                                               | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               |                                                                                   | 0.0                                                                                 | 0.0                                                                                 |                                                                                     | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Detector 1 Delay (s)       | 0.0                                                                               | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               |                                                                                   | 0.0                                                                                 | 0.0                                                                                 |                                                                                     | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Detector 2 Position(ft)    |                                                                                   | 94                                                                                |                                                                                   |                                                                                   | 94                                                                                |                                                                                   |                                                                                     | 94                                                                                  |                                                                                     |                                                                                     | 94                                                                                  |                                                                                     |
| Detector 2 Size(ft)        |                                                                                   | 6                                                                                 |                                                                                   |                                                                                   | 6                                                                                 |                                                                                   |                                                                                     | 6                                                                                   |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |
| Detector 2 Type            |                                                                                   | CI+Ex                                                                             |                                                                                   |                                                                                   | CI+Ex                                                                             |                                                                                   |                                                                                     | CI+Ex                                                                               |                                                                                     |                                                                                     | CI+Ex                                                                               |                                                                                     |
| Detector 2 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Detector 2 Extend (s)      |                                                                                   | 0.0                                                                               |                                                                                   |                                                                                   | 0.0                                                                               |                                                                                   |                                                                                     | 0.0                                                                                 |                                                                                     |                                                                                     | 0.0                                                                                 |                                                                                     |
| Turn Type                  | Perm                                                                              | NA                                                                                |                                                                                   | Perm                                                                              | NA                                                                                |                                                                                   | pm+pt                                                                               | NA                                                                                  |                                                                                     | pm+pt                                                                               | NA                                                                                  |                                                                                     |
| Protected Phases           |                                                                                   | 4                                                                                 |                                                                                   |                                                                                   | 4                                                                                 |                                                                                   | 1                                                                                   | 6                                                                                   |                                                                                     | 5                                                                                   | 2                                                                                   |                                                                                     |
| Permitted Phases           | 4                                                                                 |                                                                                   |                                                                                   | 4                                                                                 |                                                                                   |                                                                                   | 6                                                                                   |                                                                                     |                                                                                     | 2                                                                                   |                                                                                     |                                                                                     |

Lanes, Volumes, Timings  
10: Site Dr/Fort Shantock Rd

Combined Traffic  
Saturday Peak Hour

|                         |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Detector Phase          | 4                                                                                 | 4                                                                                 |                                                                                   | 4                                                                                 | 4                                                                                 |                                                                                   | 1                                                                                  | 6                                                                                   |                                                                                     | 5                                                                                   | 2                                                                                   |                                                                                     |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Minimum Initial (s)     | 5.0                                                                               | 5.0                                                                               |                                                                                   | 5.0                                                                               | 5.0                                                                               |                                                                                   | 5.0                                                                                | 5.0                                                                                 |                                                                                     | 5.0                                                                                 | 5.0                                                                                 |                                                                                     |
| Minimum Split (s)       | 22.5                                                                              | 22.5                                                                              |                                                                                   | 22.5                                                                              | 22.5                                                                              |                                                                                   | 9.5                                                                                | 24.0                                                                                |                                                                                     | 9.5                                                                                 | 24.0                                                                                |                                                                                     |
| Total Split (s)         | 25.0                                                                              | 25.0                                                                              |                                                                                   | 25.0                                                                              | 25.0                                                                              |                                                                                   | 16.0                                                                               | 54.0                                                                                |                                                                                     | 16.0                                                                                | 54.0                                                                                |                                                                                     |
| Total Split (%)         | 26.3%                                                                             | 26.3%                                                                             |                                                                                   | 26.3%                                                                             | 26.3%                                                                             |                                                                                   | 16.8%                                                                              | 56.8%                                                                               |                                                                                     | 16.8%                                                                               | 56.8%                                                                               |                                                                                     |
| Maximum Green (s)       | 20.5                                                                              | 20.5                                                                              |                                                                                   | 20.5                                                                              | 20.5                                                                              |                                                                                   | 12.9                                                                               | 48.1                                                                                |                                                                                     | 12.9                                                                                | 48.1                                                                                |                                                                                     |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               |                                                                                   | 3.5                                                                               | 3.5                                                                               |                                                                                   | 3.0                                                                                | 4.5                                                                                 |                                                                                     | 3.0                                                                                 | 4.5                                                                                 |                                                                                     |
| All-Red Time (s)        | 1.0                                                                               | 1.0                                                                               |                                                                                   | 1.0                                                                               | 1.0                                                                               |                                                                                   | 0.1                                                                                | 1.4                                                                                 |                                                                                     | 0.1                                                                                 | 1.4                                                                                 |                                                                                     |
| Lost Time Adjust (s)    |                                                                                   | 0.0                                                                               |                                                                                   |                                                                                   | 0.0                                                                               |                                                                                   | 0.0                                                                                | 0.0                                                                                 |                                                                                     | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Total Lost Time (s)     |                                                                                   | 4.5                                                                               |                                                                                   |                                                                                   | 4.5                                                                               |                                                                                   | 3.1                                                                                | 5.9                                                                                 |                                                                                     | 3.1                                                                                 | 5.9                                                                                 |                                                                                     |
| Lead/Lag                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | Lead                                                                               | Lag                                                                                 |                                                                                     | Lead                                                                                | Lag                                                                                 |                                                                                     |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | Yes                                                                                | Yes                                                                                 |                                                                                     | Yes                                                                                 | Yes                                                                                 |                                                                                     |
| Vehicle Extension (s)   | 3.0                                                                               | 3.0                                                                               |                                                                                   | 3.0                                                                               | 3.0                                                                               |                                                                                   | 3.0                                                                                | 3.0                                                                                 |                                                                                     | 3.0                                                                                 | 3.0                                                                                 |                                                                                     |
| Recall Mode             | None                                                                              | None                                                                              |                                                                                   | None                                                                              | None                                                                              |                                                                                   | None                                                                               | Max                                                                                 |                                                                                     | None                                                                                | C-Max                                                                               |                                                                                     |
| Walk Time (s)           | 7.0                                                                               | 7.0                                                                               |                                                                                   | 7.0                                                                               | 7.0                                                                               |                                                                                   |                                                                                    | 7.0                                                                                 |                                                                                     |                                                                                     | 7.0                                                                                 |                                                                                     |
| Flash Dont Walk (s)     | 11.0                                                                              | 11.0                                                                              |                                                                                   | 11.0                                                                              | 11.0                                                                              |                                                                                   |                                                                                    | 11.0                                                                                |                                                                                     |                                                                                     | 11.0                                                                                |                                                                                     |
| Pedestrian Calls (#/hr) | 0                                                                                 | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                    | 0                                                                                   |                                                                                     |                                                                                     | 0                                                                                   |                                                                                     |
| Act Effct Green (s)     |                                                                                   | 9.6                                                                               |                                                                                   |                                                                                   | 9.6                                                                               |                                                                                   | 78.4                                                                               | 74.5                                                                                |                                                                                     | 79.3                                                                                | 76.4                                                                                |                                                                                     |
| Actuated g/C Ratio      |                                                                                   | 0.10                                                                              |                                                                                   |                                                                                   | 0.10                                                                              |                                                                                   | 0.83                                                                               | 0.78                                                                                |                                                                                     | 0.83                                                                                | 0.80                                                                                |                                                                                     |
| v/c Ratio               |                                                                                   | 0.07                                                                              |                                                                                   |                                                                                   | 0.52                                                                              |                                                                                   | 0.01                                                                               | 0.38                                                                                |                                                                                     | 0.03                                                                                | 0.35                                                                                |                                                                                     |
| Control Delay           |                                                                                   | 24.7                                                                              |                                                                                   |                                                                                   | 41.2                                                                              |                                                                                   | 2.3                                                                                | 6.0                                                                                 |                                                                                     | 2.3                                                                                 | 5.0                                                                                 |                                                                                     |
| Queue Delay             |                                                                                   | 0.0                                                                               |                                                                                   |                                                                                   | 0.0                                                                               |                                                                                   | 0.0                                                                                | 0.7                                                                                 |                                                                                     | 0.0                                                                                 | 0.0                                                                                 |                                                                                     |
| Total Delay             |                                                                                   | 24.7                                                                              |                                                                                   |                                                                                   | 41.2                                                                              |                                                                                   | 2.3                                                                                | 6.7                                                                                 |                                                                                     | 2.3                                                                                 | 5.0                                                                                 |                                                                                     |
| LOS                     |                                                                                   | C                                                                                 |                                                                                   |                                                                                   | D                                                                                 |                                                                                   | A                                                                                  | A                                                                                   |                                                                                     | A                                                                                   | A                                                                                   |                                                                                     |
| Approach Delay          |                                                                                   | 24.7                                                                              |                                                                                   |                                                                                   | 41.2                                                                              |                                                                                   |                                                                                    | 6.6                                                                                 |                                                                                     |                                                                                     | 4.9                                                                                 |                                                                                     |
| Approach LOS            |                                                                                   | C                                                                                 |                                                                                   |                                                                                   | D                                                                                 |                                                                                   |                                                                                    | A                                                                                   |                                                                                     |                                                                                     | A                                                                                   |                                                                                     |
| 90th %ile Green (s)     | 14.2                                                                              | 14.2                                                                              |                                                                                   | 14.2                                                                              | 14.2                                                                              |                                                                                   | 5.8                                                                                | 61.0                                                                                |                                                                                     | 6.3                                                                                 | 61.5                                                                                |                                                                                     |
| 90th %ile Term Code     | Gap                                                                               | Gap                                                                               |                                                                                   | Gap                                                                               | Gap                                                                               |                                                                                   | Gap                                                                                | Coord                                                                               |                                                                                     | Gap                                                                                 | Coord                                                                               |                                                                                     |
| 70th %ile Green (s)     | 11.4                                                                              | 11.4                                                                              |                                                                                   | 11.4                                                                              | 11.4                                                                              |                                                                                   | 0.0                                                                                | 64.2                                                                                |                                                                                     | 5.9                                                                                 | 73.2                                                                                |                                                                                     |
| 70th %ile Term Code     | Gap                                                                               | Gap                                                                               |                                                                                   | Gap                                                                               | Gap                                                                               |                                                                                   | Skip                                                                               | Coord                                                                               |                                                                                     | Gap                                                                                 | Coord                                                                               |                                                                                     |
| 50th %ile Green (s)     | 9.5                                                                               | 9.5                                                                               |                                                                                   | 9.5                                                                               | 9.5                                                                               |                                                                                   | 0.0                                                                                | 75.1                                                                                |                                                                                     | 0.0                                                                                 | 75.1                                                                                |                                                                                     |
| 50th %ile Term Code     | Gap                                                                               | Gap                                                                               |                                                                                   | Gap                                                                               | Gap                                                                               |                                                                                   | Skip                                                                               | Coord                                                                               |                                                                                     | Skip                                                                                | Coord                                                                               |                                                                                     |
| 30th %ile Green (s)     | 7.5                                                                               | 7.5                                                                               |                                                                                   | 7.5                                                                               | 7.5                                                                               |                                                                                   | 0.0                                                                                | 77.1                                                                                |                                                                                     | 0.0                                                                                 | 77.1                                                                                |                                                                                     |
| 30th %ile Term Code     | Gap                                                                               | Gap                                                                               |                                                                                   | Gap                                                                               | Gap                                                                               |                                                                                   | Skip                                                                               | Coord                                                                               |                                                                                     | Skip                                                                                | Coord                                                                               |                                                                                     |
| 10th %ile Green (s)     | 0.0                                                                               | 0.0                                                                               |                                                                                   | 0.0                                                                               | 0.0                                                                               |                                                                                   | 0.0                                                                                | 89.1                                                                                |                                                                                     | 0.0                                                                                 | 89.1                                                                                |                                                                                     |
| 10th %ile Term Code     | Skip                                                                              | Skip                                                                              |                                                                                   | Skip                                                                              | Skip                                                                              |                                                                                   | Skip                                                                               | Coord                                                                               |                                                                                     | Skip                                                                                | Coord                                                                               |                                                                                     |
| Stops (vph)             |                                                                                   | 8                                                                                 |                                                                                   |                                                                                   | 56                                                                                |                                                                                   | 2                                                                                  | 169                                                                                 |                                                                                     | 5                                                                                   | 144                                                                                 |                                                                                     |
| Fuel Used(gal)          |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 2                                                                                 |                                                                                   | 0                                                                                  | 3                                                                                   |                                                                                     | 0                                                                                   | 7                                                                                   |                                                                                     |
| CO Emissions (g/hr)     |                                                                                   | 11                                                                                |                                                                                   |                                                                                   | 113                                                                               |                                                                                   | 3                                                                                  | 243                                                                                 |                                                                                     | 20                                                                                  | 459                                                                                 |                                                                                     |
| NOx Emissions (g/hr)    |                                                                                   | 2                                                                                 |                                                                                   |                                                                                   | 22                                                                                |                                                                                   | 1                                                                                  | 47                                                                                  |                                                                                     | 4                                                                                   | 89                                                                                  |                                                                                     |
| VOC Emissions (g/hr)    |                                                                                   | 2                                                                                 |                                                                                   |                                                                                   | 26                                                                                |                                                                                   | 1                                                                                  | 56                                                                                  |                                                                                     | 5                                                                                   | 106                                                                                 |                                                                                     |
| Dilemma Vehicles (#)    |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |                                                                                   | 0                                                                                  | 0                                                                                   |                                                                                     | 0                                                                                   | 0                                                                                   |                                                                                     |
| Queue Length 50th (ft)  |                                                                                   | 2                                                                                 |                                                                                   |                                                                                   | 36                                                                                |                                                                                   | 1                                                                                  | 73                                                                                  |                                                                                     | 2                                                                                   | 70                                                                                  |                                                                                     |
| Queue Length 95th (ft)  |                                                                                   | 18                                                                                |                                                                                   |                                                                                   | 79                                                                                |                                                                                   | 4                                                                                  | 218                                                                                 |                                                                                     | 8                                                                                   | 203                                                                                 |                                                                                     |
| Internal Link Dist (ft) |                                                                                   | 545                                                                               |                                                                                   |                                                                                   | 929                                                                               |                                                                                   |                                                                                    | 109                                                                                 |                                                                                     |                                                                                     | 1286                                                                                |                                                                                     |
| Turn Bay Length (ft)    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 150                                                                                |                                                                                     |                                                                                     | 500                                                                                 |                                                                                     |                                                                                     |
| Base Capacity (vph)     |                                                                                   | 353                                                                               |                                                                                   |                                                                                   | 321                                                                               |                                                                                   | 837                                                                                | 1439                                                                                |                                                                                     | 796                                                                                 | 1496                                                                                |                                                                                     |
| Starvation Cap Reductn  |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |                                                                                   | 0                                                                                  | 535                                                                                 |                                                                                     | 0                                                                                   | 0                                                                                   |                                                                                     |

Lanes, Volumes, Timings  
10: Site Dr/Fort Shantock Rd

Combined Traffic  
Saturday Peak Hour

|                       |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group            | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Spillback Cap Reductn |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |                                                                                   | 0                                                                                  | 0                                                                                   |                                                                                     | 0                                                                                   | 0                                                                                   |                                                                                     |
| Storage Cap Reductn   |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |                                                                                   | 0                                                                                  | 0                                                                                   |                                                                                     | 0                                                                                   | 0                                                                                   |                                                                                     |
| Reduced v/c Ratio     |                                                                                   | 0.03                                                                              |                                                                                   |                                                                                   | 0.26                                                                              |                                                                                   | 0.01                                                                               | 0.60                                                                                |                                                                                     | 0.03                                                                                | 0.35                                                                                |                                                                                     |

| Intersection Summary              |                                                     |
|-----------------------------------|-----------------------------------------------------|
| Area Type:                        | Other                                               |
| Cycle Length:                     | 95                                                  |
| Actuated Cycle Length:            | 95                                                  |
| Offset:                           | 0 (0%), Referenced to phase 2:SBTL, Start of Yellow |
| Natural Cycle:                    | 60                                                  |
| Control Type:                     | Actuated-Coordinated                                |
| Maximum v/c Ratio:                | 0.52                                                |
| Intersection Signal Delay:        | 8.4                                                 |
| Intersection LOS:                 | A                                                   |
| Intersection Capacity Utilization | 46.2%                                               |
| ICU Level of Service              | A                                                   |
| Analysis Period (min)             | 15                                                  |

Splits and Phases: 10: Site Dr/Fort Shantock Rd

|                                                                                      |                                                                                          |                                                                                        |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|  Ø1 |  Ø2 (R) |  Ø4 |
| 16 s                                                                                 | 54 s                                                                                     | 25 s                                                                                   |
|  Ø5 |  Ø6     |                                                                                        |
| 16 s                                                                                 | 54 s                                                                                     |                                                                                        |

Lanes, Volumes, Timings  
12: Crow Hill Road & Route 32

Combined Traffic  
Saturday Peak Hour

|                            |  |  |  |  |  |  |
|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group                 | WBL                                                                               | WBR                                                                               | NBT                                                                               | NBR                                                                               | SBL                                                                               | SBT                                                                               |
| Lane Configurations        |  |  |  |  |  |  |
| Traffic Volume (vph)       | 4                                                                                 | 8                                                                                 | 444                                                                               | 44                                                                                | 19                                                                                | 514                                                                               |
| Future Volume (vph)        | 4                                                                                 | 8                                                                                 | 444                                                                               | 44                                                                                | 19                                                                                | 514                                                                               |
| Ideal Flow (vphpl)         | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              | 1900                                                                              |
| Storage Length (ft)        | 0                                                                                 | 0                                                                                 |                                                                                   | 150                                                                               | 0                                                                                 |                                                                                   |
| Storage Lanes              | 1                                                                                 | 1                                                                                 |                                                                                   | 1                                                                                 | 1                                                                                 |                                                                                   |
| Taper Length (ft)          | 25                                                                                |                                                                                   |                                                                                   |                                                                                   | 25                                                                                |                                                                                   |
| Lane Util. Factor          | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Frt                        |                                                                                   | 0.850                                                                             |                                                                                   | 0.850                                                                             |                                                                                   |                                                                                   |
| Flt Protected              | 0.950                                                                             |                                                                                   |                                                                                   |                                                                                   | 0.950                                                                             |                                                                                   |
| Satd. Flow (prot)          | 1770                                                                              | 1583                                                                              | 1863                                                                              | 1583                                                                              | 1770                                                                              | 1863                                                                              |
| Flt Permitted              | 0.950                                                                             |                                                                                   |                                                                                   |                                                                                   | 0.462                                                                             |                                                                                   |
| Satd. Flow (perm)          | 1770                                                                              | 1583                                                                              | 1863                                                                              | 1583                                                                              | 861                                                                               | 1863                                                                              |
| Right Turn on Red          |                                                                                   | Yes                                                                               |                                                                                   | Yes                                                                               |                                                                                   |                                                                                   |
| Satd. Flow (RTOR)          |                                                                                   | 8                                                                                 |                                                                                   | 46                                                                                |                                                                                   |                                                                                   |
| Link Speed (mph)           | 30                                                                                |                                                                                   | 30                                                                                |                                                                                   |                                                                                   | 30                                                                                |
| Link Distance (ft)         | 928                                                                               |                                                                                   | 1366                                                                              |                                                                                   |                                                                                   | 1150                                                                              |
| Travel Time (s)            | 21.1                                                                              |                                                                                   | 31.0                                                                              |                                                                                   |                                                                                   | 26.1                                                                              |
| Peak Hour Factor           | 0.95                                                                              | 0.95                                                                              | 0.95                                                                              | 0.95                                                                              | 0.95                                                                              | 0.95                                                                              |
| Adj. Flow (vph)            | 4                                                                                 | 8                                                                                 | 467                                                                               | 46                                                                                | 20                                                                                | 541                                                                               |
| Shared Lane Traffic (%)    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Lane Group Flow (vph)      | 4                                                                                 | 8                                                                                 | 467                                                                               | 46                                                                                | 20                                                                                | 541                                                                               |
| Enter Blocked Intersection | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                | No                                                                                |
| Lane Alignment             | Left                                                                              | Right                                                                             | Left                                                                              | Right                                                                             | Left                                                                              | Left                                                                              |
| Median Width(ft)           | 12                                                                                |                                                                                   | 12                                                                                |                                                                                   |                                                                                   | 12                                                                                |
| Link Offset(ft)            | 0                                                                                 |                                                                                   | 0                                                                                 |                                                                                   |                                                                                   | 0                                                                                 |
| Crosswalk Width(ft)        | 16                                                                                |                                                                                   | 16                                                                                |                                                                                   |                                                                                   | 16                                                                                |
| Two way Left Turn Lane     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Headway Factor             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Turning Speed (mph)        | 15                                                                                | 9                                                                                 |                                                                                   | 9                                                                                 | 15                                                                                |                                                                                   |
| Number of Detectors        | 1                                                                                 | 1                                                                                 | 2                                                                                 | 1                                                                                 | 1                                                                                 | 2                                                                                 |
| Detector Template          | Left                                                                              | Right                                                                             | Thru                                                                              | Right                                                                             | Left                                                                              | Thru                                                                              |
| Leading Detector (ft)      | 20                                                                                | 20                                                                                | 100                                                                               | 20                                                                                | 20                                                                                | 100                                                                               |
| Trailing Detector (ft)     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Detector 1 Position(ft)    | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Detector 1 Size(ft)        | 20                                                                                | 20                                                                                | 6                                                                                 | 20                                                                                | 20                                                                                | 6                                                                                 |
| Detector 1 Type            | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             | CI+Ex                                                                             |
| Detector 1 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Detector 1 Extend (s)      | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Detector 1 Queue (s)       | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Detector 1 Delay (s)       | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Detector 2 Position(ft)    |                                                                                   |                                                                                   | 94                                                                                |                                                                                   |                                                                                   | 94                                                                                |
| Detector 2 Size(ft)        |                                                                                   |                                                                                   | 6                                                                                 |                                                                                   |                                                                                   | 6                                                                                 |
| Detector 2 Type            |                                                                                   |                                                                                   | CI+Ex                                                                             |                                                                                   |                                                                                   | CI+Ex                                                                             |
| Detector 2 Channel         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Detector 2 Extend (s)      |                                                                                   |                                                                                   | 0.0                                                                               |                                                                                   |                                                                                   | 0.0                                                                               |
| Turn Type                  | Prot                                                                              | Perm                                                                              | NA                                                                                | Perm                                                                              | D.P+P                                                                             | NA                                                                                |
| Protected Phases           | 3                                                                                 |                                                                                   | 2                                                                                 |                                                                                   | 1                                                                                 | 1 2                                                                               |
| Permitted Phases           |                                                                                   | 3                                                                                 |                                                                                   | 2                                                                                 | 2                                                                                 |                                                                                   |

Lanes, Volumes, Timings  
12: Crow Hill Road & Route 32

Combined Traffic  
Saturday Peak Hour

| Lane Group              | WBL   | WBR   | NBT   | NBR   | SBL   | SBT  |
|-------------------------|-------|-------|-------|-------|-------|------|
| Detector Phase          | 3     | 3     | 2     | 2     | 1     | 1 2  |
| Switch Phase            |       |       |       |       |       |      |
| Minimum Initial (s)     | 5.0   | 5.0   | 15.0  | 15.0  | 5.0   |      |
| Minimum Split (s)       | 22.5  | 22.5  | 24.8  | 24.8  | 9.5   |      |
| Total Split (s)         | 22.0  | 22.0  | 24.0  | 24.0  | 14.0  |      |
| Total Split (%)         | 36.7% | 36.7% | 40.0% | 40.0% | 23.3% |      |
| Maximum Green (s)       | 18.0  | 18.0  | 17.2  | 17.2  | 10.0  |      |
| Yellow Time (s)         | 3.0   | 3.0   | 4.7   | 4.7   | 3.0   |      |
| All-Red Time (s)        | 1.0   | 1.0   | 2.1   | 2.1   | 1.0   |      |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |
| Total Lost Time (s)     | 4.0   | 4.0   | 6.8   | 6.8   | 4.0   |      |
| Lead/Lag                |       |       | Lag   | Lag   | Lead  |      |
| Lead-Lag Optimize?      |       |       | Yes   | Yes   | Yes   |      |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      |
| Recall Mode             | None  | None  | C-Max | C-Max | None  |      |
| Walk Time (s)           | 7.0   | 7.0   | 7.0   | 7.0   |       |      |
| Flash Dont Walk (s)     | 11.0  | 11.0  | 11.0  | 11.0  |       |      |
| Pedestrian Calls (#/hr) | 0     | 0     | 0     | 0     |       |      |
| Act Effct Green (s)     | 5.8   | 5.8   | 37.3  | 37.3  | 49.9  | 57.1 |
| Actuated g/C Ratio      | 0.10  | 0.10  | 0.62  | 0.62  | 0.83  | 0.95 |
| v/c Ratio               | 0.02  | 0.05  | 0.40  | 0.05  | 0.02  | 0.31 |
| Control Delay           | 24.5  | 15.8  | 10.7  | 4.2   | 1.2   | 1.3  |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| Total Delay             | 24.5  | 15.8  | 10.7  | 4.2   | 1.2   | 1.3  |
| LOS                     | C     | B     | B     | A     | A     | A    |
| Approach Delay          | 18.7  |       | 10.1  |       |       | 1.3  |
| Approach LOS            | B     |       | B     |       |       | A    |
| 90th %ile Green (s)     | 6.5   | 6.5   | 20.0  | 20.0  | 18.7  |      |
| 90th %ile Term Code     | Gap   | Gap   | Coord | Coord | Gap   |      |
| 70th %ile Green (s)     | 0.0   | 0.0   | 39.7  | 39.7  | 9.5   |      |
| 70th %ile Term Code     | Skip  | Skip  | Coord | Coord | Gap   |      |
| 50th %ile Green (s)     | 0.0   | 0.0   | 41.1  | 41.1  | 8.1   |      |
| 50th %ile Term Code     | Skip  | Skip  | Coord | Coord | Gap   |      |
| 30th %ile Green (s)     | 0.0   | 0.0   | 42.5  | 42.5  | 6.7   |      |
| 30th %ile Term Code     | Skip  | Skip  | Coord | Coord | Gap   |      |
| 10th %ile Green (s)     | 0.0   | 0.0   | 43.0  | 43.0  | 6.2   |      |
| 10th %ile Term Code     | Skip  | Skip  | Coord | Coord | Gap   |      |
| Stops (vph)             | 7     | 7     | 220   | 11    | 3     | 48   |
| Fuel Used(gal)          | 0     | 0     | 7     | 1     | 0     | 5    |
| CO Emissions (g/hr)     | 6     | 9     | 483   | 40    | 13    | 350  |
| NOx Emissions (g/hr)    | 1     | 2     | 94    | 8     | 3     | 68   |
| VOC Emissions (g/hr)    | 1     | 2     | 112   | 9     | 3     | 81   |
| Dilemma Vehicles (#)    | 0     | 0     | 0     | 0     | 0     | 0    |
| Queue Length 50th (ft)  | 1     | 0     | 56    | 0     | 1     | 0    |
| Queue Length 95th (ft)  | 9     | 11    | #278  | 18    | 4     | 75   |
| Internal Link Dist (ft) | 848   |       | 1286  |       |       | 1070 |
| Turn Bay Length (ft)    |       |       |       | 150   |       |      |
| Base Capacity (vph)     | 531   | 480   | 1157  | 1000  | 921   | 1732 |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0    |

Lanes, Volumes, Timings  
12: Crow Hill Road & Route 32

Combined Traffic  
Saturday Peak Hour



| Lane Group            | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
|-----------------------|------|------|------|------|------|------|
| Spillback Cap Reductn | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio     | 0.01 | 0.02 | 0.40 | 0.05 | 0.02 | 0.31 |

Intersection Summary

Area Type: Other

Cycle Length: 60

Actuated Cycle Length: 60

Offset: 53 (88%), Referenced to phase 2:NBSB, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.40

Intersection Signal Delay: 5.7

Intersection LOS: A

Intersection Capacity Utilization 37.9%

ICU Level of Service A

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 12: Crow Hill Road & Route 32

|      |        |      |
|------|--------|------|
| Ø1   | Ø2 (R) | Ø3   |
| 14 s | 24 s   | 22 s |

Lanes, Volumes, Timings  
15: Podurgiel

Combined Traffic  
Saturday Peak Hour

|                            |       |       |       |       |       |       | Ø5 | Ø7 |
|----------------------------|-------|-------|-------|-------|-------|-------|----|----|
| Lane Group                 | EBL   | EBR   | NBL   | NBT   | SBT   | SBR   |    |    |
| Lane Configurations        |       |       |       |       |       |       |    |    |
| Traffic Volume (vph)       | 9     | 3     | 4     | 716   | 729   | 10    |    |    |
| Future Volume (vph)        | 9     | 3     | 4     | 716   | 729   | 10    |    |    |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |    |    |
| Storage Length (ft)        | 0     | 0     | 60    |       |       | 0     |    |    |
| Storage Lanes              | 1     | 0     | 1     |       |       | 0     |    |    |
| Taper Length (ft)          | 25    |       | 25    |       |       |       |    |    |
| Lane Util. Factor          | 1.00  | 1.00  | 1.00  | 0.91  | 0.95  | 0.95  |    |    |
| Frt                        | 0.969 |       |       |       | 0.998 |       |    |    |
| Flt Protected              | 0.963 |       | 0.950 |       |       |       |    |    |
| Satd. Flow (prot)          | 1738  | 0     | 1770  | 5085  | 3532  | 0     |    |    |
| Flt Permitted              | 0.963 |       | 0.334 |       |       |       |    |    |
| Satd. Flow (perm)          | 1738  | 0     | 622   | 5085  | 3532  | 0     |    |    |
| Right Turn on Red          |       | Yes   |       |       |       | Yes   |    |    |
| Satd. Flow (RTOR)          | 3     |       |       |       | 1     |       |    |    |
| Link Speed (mph)           | 30    |       |       | 30    | 30    |       |    |    |
| Link Distance (ft)         | 532   |       |       | 671   | 101   |       |    |    |
| Travel Time (s)            | 12.1  |       |       | 15.3  | 2.3   |       |    |    |
| Peak Hour Factor           | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |    |    |
| Adj. Flow (vph)            | 10    | 3     | 4     | 796   | 810   | 11    |    |    |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |    |    |
| Lane Group Flow (vph)      | 13    | 0     | 4     | 796   | 821   | 0     |    |    |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    |    |    |
| Lane Alignment             | Left  | Right | Left  | Left  | Left  | Right |    |    |
| Median Width(ft)           | 12    |       |       | 12    | 12    |       |    |    |
| Link Offset(ft)            | 0     |       |       | 0     | 0     |       |    |    |
| Crosswalk Width(ft)        | 16    |       |       | 16    | 16    |       |    |    |
| Two way Left Turn Lane     |       |       |       |       |       |       |    |    |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |    |    |
| Turning Speed (mph)        | 15    | 9     | 15    |       |       | 9     |    |    |
| Number of Detectors        | 1     |       | 1     | 2     | 2     |       |    |    |
| Detector Template          | Left  |       | Left  | Thru  | Thru  |       |    |    |
| Leading Detector (ft)      | 20    |       | 20    | 100   | 100   |       |    |    |
| Trailing Detector (ft)     | 0     |       | 0     | 0     | 0     |       |    |    |
| Detector 1 Position(ft)    | 0     |       | 0     | 0     | 0     |       |    |    |
| Detector 1 Size(ft)        | 20    |       | 20    | 6     | 6     |       |    |    |
| Detector 1 Type            | CI+Ex |       | CI+Ex | CI+Ex | CI+Ex |       |    |    |
| Detector 1 Channel         |       |       |       |       |       |       |    |    |
| Detector 1 Extend (s)      | 0.0   |       | 0.0   | 0.0   | 0.0   |       |    |    |
| Detector 1 Queue (s)       | 0.0   |       | 0.0   | 0.0   | 0.0   |       |    |    |
| Detector 1 Delay (s)       | 0.0   |       | 0.0   | 0.0   | 0.0   |       |    |    |
| Detector 2 Position(ft)    |       |       |       | 94    | 94    |       |    |    |
| Detector 2 Size(ft)        |       |       |       | 6     | 6     |       |    |    |
| Detector 2 Type            |       |       |       | CI+Ex | CI+Ex |       |    |    |
| Detector 2 Channel         |       |       |       |       |       |       |    |    |
| Detector 2 Extend (s)      |       |       |       | 0.0   | 0.0   |       |    |    |
| Turn Type                  | Prot  |       | pm+pt | NA    | NA    |       |    |    |
| Protected Phases           | 4     |       | 1     | 6     | 2     |       | 5  | 7  |
| Permitted Phases           |       |       | 6     |       |       |       |    |    |

Lanes, Volumes, Timings  
15: Podurgiel

Combined Traffic  
Saturday Peak Hour

|                         |  |     |  |       |  |     |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBR | NBL                                                                               | NBT   | SBT                                                                               | SBR | Ø5                                                                                | Ø7                                                                                |                                                                                   |
| Detector Phase          | 4                                                                                 |     | 1                                                                                 | 6     | 2                                                                                 |     |                                                                                   |                                                                                   |                                                                                   |
| Switch Phase            |                                                                                   |     |                                                                                   |       |                                                                                   |     |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 4.0                                                                               |     | 3.0                                                                               | 15.0  | 5.0                                                                               |     | 4.0                                                                               | 5.0                                                                               |                                                                                   |
| Minimum Split (s)       | 25.2                                                                              |     | 9.5                                                                               | 25.0  | 25.0                                                                              |     | 22.0                                                                              | 23.4                                                                              |                                                                                   |
| Total Split (s)         | 15.0                                                                              |     | 8.0                                                                               | 37.0  | 43.0                                                                              |     | 14.0                                                                              | 34.0                                                                              |                                                                                   |
| Total Split (%)         | 15.0%                                                                             |     | 8.0%                                                                              | 37.0% | 43.0%                                                                             |     | 14%                                                                               | 34%                                                                               |                                                                                   |
| Maximum Green (s)       | 7.8                                                                               |     | 3.7                                                                               | 30.0  | 36.0                                                                              |     | 9.7                                                                               | 28.6                                                                              |                                                                                   |
| Yellow Time (s)         | 3.0                                                                               |     | 3.3                                                                               | 4.6   | 4.6                                                                               |     | 3.3                                                                               | 3.1                                                                               |                                                                                   |
| All-Red Time (s)        | 4.2                                                                               |     | 1.0                                                                               | 2.4   | 2.4                                                                               |     | 1.0                                                                               | 2.3                                                                               |                                                                                   |
| Lost Time Adjust (s)    | 0.0                                                                               |     | 0.0                                                                               | 0.0   | 0.0                                                                               |     |                                                                                   |                                                                                   |                                                                                   |
| Total Lost Time (s)     | 7.2                                                                               |     | 4.3                                                                               | 7.0   | 7.0                                                                               |     |                                                                                   |                                                                                   |                                                                                   |
| Lead/Lag                |                                                                                   |     | Lead                                                                              | Lag   | Lag                                                                               |     | Lead                                                                              |                                                                                   |                                                                                   |
| Lead-Lag Optimize?      |                                                                                   |     |                                                                                   |       |                                                                                   |     |                                                                                   |                                                                                   |                                                                                   |
| Vehicle Extension (s)   | 3.0                                                                               |     | 3.0                                                                               | 3.0   | 3.0                                                                               |     | 3.0                                                                               | 3.0                                                                               |                                                                                   |
| Recall Mode             | None                                                                              |     | None                                                                              | C-Max | C-Max                                                                             |     | None                                                                              | None                                                                              |                                                                                   |
| Walk Time (s)           | 7.0                                                                               |     |                                                                                   | 7.0   | 7.0                                                                               |     |                                                                                   | 7.0                                                                               |                                                                                   |
| Flash Dont Walk (s)     | 11.0                                                                              |     |                                                                                   | 11.0  | 11.0                                                                              |     |                                                                                   | 11.0                                                                              |                                                                                   |
| Pedestrian Calls (#/hr) | 0                                                                                 |     |                                                                                   | 0     | 0                                                                                 |     |                                                                                   | 0                                                                                 |                                                                                   |
| Act Effct Green (s)     | 6.2                                                                               |     | 67.0                                                                              | 59.8  | 67.4                                                                              |     |                                                                                   |                                                                                   |                                                                                   |
| Actuated g/C Ratio      | 0.06                                                                              |     | 0.67                                                                              | 0.60  | 0.67                                                                              |     |                                                                                   |                                                                                   |                                                                                   |
| v/c Ratio               | 0.12                                                                              |     | 0.01                                                                              | 0.26  | 0.34                                                                              |     |                                                                                   |                                                                                   |                                                                                   |
| Control Delay           | 40.0                                                                              |     | 8.0                                                                               | 12.3  | 5.2                                                                               |     |                                                                                   |                                                                                   |                                                                                   |
| Queue Delay             | 0.0                                                                               |     | 0.0                                                                               | 0.0   | 0.0                                                                               |     |                                                                                   |                                                                                   |                                                                                   |
| Total Delay             | 40.0                                                                              |     | 8.0                                                                               | 12.3  | 5.2                                                                               |     |                                                                                   |                                                                                   |                                                                                   |
| LOS                     | D                                                                                 |     | A                                                                                 | B     | A                                                                                 |     |                                                                                   |                                                                                   |                                                                                   |
| Approach Delay          | 40.0                                                                              |     |                                                                                   | 12.3  | 5.2                                                                               |     |                                                                                   |                                                                                   |                                                                                   |
| Approach LOS            | D                                                                                 |     |                                                                                   | B     | A                                                                                 |     |                                                                                   |                                                                                   |                                                                                   |
| 90th %ile Green (s)     | 7.6                                                                               |     | 5.9                                                                               | 37.0  | 41.3                                                                              |     | 10.2                                                                              | 21.3                                                                              |                                                                                   |
| 90th %ile Term Code     | Gap                                                                               |     | Gap                                                                               | Coord | Coord                                                                             |     | Gap                                                                               | Gap                                                                               |                                                                                   |
| 70th %ile Green (s)     | 0.0                                                                               |     | 0.0                                                                               | 57.8  | 69.6                                                                              |     | 7.5                                                                               | 18.0                                                                              |                                                                                   |
| 70th %ile Term Code     | Skip                                                                              |     | Skip                                                                              | Coord | Coord                                                                             |     | Gap                                                                               | Gap                                                                               |                                                                                   |
| 50th %ile Green (s)     | 0.0                                                                               |     | 0.0                                                                               | 61.6  | 72.7                                                                              |     | 6.8                                                                               | 14.9                                                                              |                                                                                   |
| 50th %ile Term Code     | Skip                                                                              |     | Skip                                                                              | Coord | Coord                                                                             |     | Gap                                                                               | Gap                                                                               |                                                                                   |
| 30th %ile Green (s)     | 0.0                                                                               |     | 0.0                                                                               | 64.4  | 75.0                                                                              |     | 6.3                                                                               | 12.6                                                                              |                                                                                   |
| 30th %ile Term Code     | Skip                                                                              |     | Skip                                                                              | Coord | Coord                                                                             |     | Gap                                                                               | Gap                                                                               |                                                                                   |
| 10th %ile Green (s)     | 0.0                                                                               |     | 0.0                                                                               | 78.3  | 78.3                                                                              |     | 0.0                                                                               | 9.3                                                                               |                                                                                   |
| 10th %ile Term Code     | Skip                                                                              |     | Skip                                                                              | Coord | Coord                                                                             |     | Skip                                                                              | Gap                                                                               |                                                                                   |
| Stops (vph)             | 12                                                                                |     | 3                                                                                 | 343   | 225                                                                               |     |                                                                                   |                                                                                   |                                                                                   |
| Fuel Used(gal)          | 0                                                                                 |     | 0                                                                                 | 7     | 3                                                                                 |     |                                                                                   |                                                                                   |                                                                                   |
| CO Emissions (g/hr)     | 15                                                                                |     | 3                                                                                 | 520   | 182                                                                               |     |                                                                                   |                                                                                   |                                                                                   |
| NOx Emissions (g/hr)    | 3                                                                                 |     | 1                                                                                 | 101   | 35                                                                                |     |                                                                                   |                                                                                   |                                                                                   |
| VOC Emissions (g/hr)    | 3                                                                                 |     | 1                                                                                 | 121   | 42                                                                                |     |                                                                                   |                                                                                   |                                                                                   |
| Dilemma Vehicles (#)    | 0                                                                                 |     | 0                                                                                 | 0     | 0                                                                                 |     |                                                                                   |                                                                                   |                                                                                   |
| Queue Length 50th (ft)  | 6                                                                                 |     | 1                                                                                 | 78    | 29                                                                                |     |                                                                                   |                                                                                   |                                                                                   |
| Queue Length 95th (ft)  | 25                                                                                |     | 6                                                                                 | 172   | 122                                                                               |     |                                                                                   |                                                                                   |                                                                                   |
| Internal Link Dist (ft) | 452                                                                               |     |                                                                                   | 591   | 21                                                                                |     |                                                                                   |                                                                                   |                                                                                   |
| Turn Bay Length (ft)    |                                                                                   |     | 60                                                                                |       |                                                                                   |     |                                                                                   |                                                                                   |                                                                                   |
| Base Capacity (vph)     | 138                                                                               |     | 481                                                                               | 3041  | 2380                                                                              |     |                                                                                   |                                                                                   |                                                                                   |
| Starvation Cap Reductn  | 0                                                                                 |     | 0                                                                                 | 0     | 0                                                                                 |     |                                                                                   |                                                                                   |                                                                                   |

# Lanes, Volumes, Timings 15: Podurgiel

Combined Traffic  
Saturday Peak Hour

|                       |  |  |  |  |  |  |    |    |
|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|
| Lane Group            | EBL                                                                               | EBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               | Ø5 | Ø7 |
| Spillback Cap Reductn | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |    |    |
| Storage Cap Reductn   | 0                                                                                 |                                                                                   | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |    |    |
| Reduced v/c Ratio     | 0.09                                                                              |                                                                                   | 0.01                                                                              | 0.26                                                                              | 0.34                                                                              |                                                                                   |    |    |

## Intersection Summary

Area Type: Other

Cycle Length: 100

Actuated Cycle Length: 100

Offset: 97 (97%), Referenced to phase 2:SBTL and 6:NBT, Start of Yellow

Natural Cycle: 100

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.63

Intersection Signal Delay: 9.0

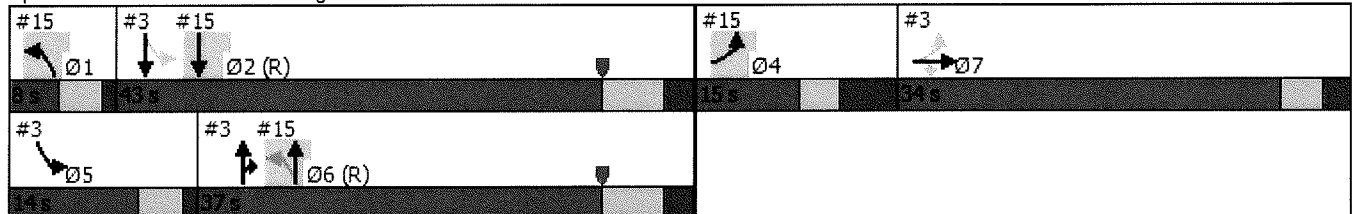
Intersection LOS: A

Intersection Capacity Utilization 35.6%

ICU Level of Service A

Analysis Period (min) 15

## Splits and Phases: 15: Podurgiel



## **ConnDOT Speed Counts**

South

## Route 32 - 9.73 mi South of Fitch Hill Road

| Town.....                                | Montville            |
|------------------------------------------|----------------------|
| Station.....                             | 35                   |
| Location.....                            | 41.494451,-72.100097 |
| Posted Speed Limit.....                  | 35 MPH               |
| 2015-Minor Arterial                      | 4.....2015-Urban     |
| Start Report.....                        | 11-Oct-2023 11:00AM  |
| End Report.....                          | 13-Oct-2023 11:00AM  |
| Dataset Details.....                     | 2                    |
| All Vehicles Average Speed.....          | 33 MPH               |
| Total Vehicles.....                      | 13130                |
| Percentile Sampling Period... 9AM to 4PM |                      |
| Vehicle Too Close.....                   | 5 secs               |
| Vehicle Too Slow.....                    | < 20 MPH             |
| Speed Lower Limit.....                   | 15 MPH below Posted  |
|                                          |                      |
| All Report Days                          |                      |
| 85th Percentile Speed.....               | 38.6 MPH             |
| 50th Percentile Speed.....               | 30.6 MPH             |
| 10 MPH Pace (64%).....                   | 25-34 MPH            |
| All Hours Total Vehicles.....            | 13130                |
| In-Period Total Vehicles.....            | 6260                 |
| Omitted Vehicles Too Close (59%)...      | 3701                 |
| Omitted Vehicles Too Slow ( 1%).....     | 39                   |
| Sampled Vehicles (40%).....              | 2520                 |
|                                          |                      |
| Wednesday 11-Oct-2023                    |                      |
| 85th Percentile Speed.....               | 38.3 MPH             |
| 50th Percentile Speed.....               | 30.5 MPH             |
| 10 MPH Pace (65%).....                   | 24-33 MPH            |
| All Hours Total Vehicles.....            | 4379                 |
| In-Period Total Vehicles.....            | 2265                 |
| Omitted Vehicles Too Close (60%)...      | 1359                 |
| Omitted Vehicles Too Slow ( 1%).....     | 13                   |
| Sampled Vehicles (39%).....              | 893                  |
|                                          |                      |
| Thursday 12-Oct-2023                     |                      |
| 85th Percentile Speed.....               | 38.7 MPH             |
| 50th Percentile Speed.....               | 30.6 MPH             |
| 10 MPH Pace (65%).....                   | 25-34 MPH            |
| All Hours Total Vehicles.....            | 6577                 |
| In-Period Total Vehicles.....            | 3132                 |
| Omitted Vehicles Too Close (59%)...      | 1857                 |
| Omitted Vehicles Too Slow ( 1%).....     | 18                   |
| Sampled Vehicles (40%).....              | 1257                 |
|                                          |                      |
| Friday 13-Oct-2023                       |                      |
| 85th Percentile Speed.....               | 38.8 MPH             |
| 50th Percentile Speed.....               | 31.2 MPH             |
| 10 MPH Pace (65%).....                   | 26-35 MPH            |

| Category                                 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|------------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| All Hours Total Vehicles.....2174        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| In-Period Total Vehicles.....863         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| Omitted Vehicles Too Close (56%).....485 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| Omitted Vehicles Too Slow ( 1%).....8    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| Sampled Vehicles (43%).....370           |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |

South

## Route 32 - 9.73 mi South of Fitch Hill Road

[illegible]

|                                       |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
|---------------------------------------|------|---------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-----|
| All Hours Total Vehicles.....         | 1716 | 05:00pm | 43   | 42   | 67    | 124   | 133   | 99    | 58    | 9    | 1    | .    | .    | .    | .    | 576  | 9%  |
| In-Period Total Vehicles.....         | 684  | 06:00pm | .    | 5    | 26    | 76    | 102   | 73    | 45    | 8    | .    | 1    | .    | .    | .    | 336  | 5%  |
| Omitted Vehicles Too Close (69%)..... | 475  | 07:00pm | .    | 2    | 11    | 53    | 82    | 67    | 26    | 5    | 3    | 1    | .    | .    | .    | 250  | 4%  |
| Omitted Vehicles Too Slow ( 1%).....  | 7    | 08:00pm | .    | .    | 12    | 18    | 57    | 76    | 24    | 4    | 2    | .    | .    | .    | .    | 193  | 3%  |
| Sampled Vehicles (30%).....           | 202  | 09:00pm | .    | 2    | 6     | 22    | 30    | 30    | 24    | 5    | 3    | 1    | .    | .    | .    | 123  | 2%  |
|                                       |      | 10:00pm | .    | .    | .     | 11    | 24    | 36    | 19    | 5    | 1    | .    | .    | .    | .    | 96   | 2%  |
|                                       |      | 11:00pm | .    | .    | 3     | 13    | 16    | 32    | 26    | 3    | .    | .    | .    | .    | .    | 93   | 1%  |
| Totals                                | 246  |         | 246  | 293  | 643   | 1195  | 1564  | 1381  | 738   | 126  | 38   | 6    | 1    | 1    | 0    | 6232 |     |
| Percent                               | 3.95 |         | 3.95 | 4.70 | 10.32 | 19.18 | 25.10 | 22.16 | 11.84 | 2.02 | 0.61 | 0.10 | 0.02 | 0.02 | 0.00 | 0.00 |     |
| Friday                                |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 13-Oct                                |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 12:00am                               |      |         | .    | 1    | .     | 8     | 19    | 12    | 12    | 1    | .    | .    | .    | .    | .    | 53   | 3%  |
| 01:00am                               |      |         | .    | .    | .     | 3     | 6     | 10    | 13    | 1    | 1    | .    | .    | .    | .    | 34   | 2%  |
| 02:00am                               |      |         | .    | .    | .     | 2     | 2     | 4     | 11    | 2    | .    | .    | .    | .    | .    | 21   | 1%  |
| 03:00am                               |      |         | .    | .    | .     | 1     | 3     | 6     | 5     | 1    | .    | .    | .    | .    | .    | 16   | 1%  |
| 04:00am                               |      |         | .    | .    | .     | 2     | 3     | 8     | 4     | 1    | 1    | .    | 1    | .    | .    | 20   | 1%  |
| 05:00am                               |      |         | .    | .    | .     | 2     | 11    | 15    | 19    | 7    | 2    | 1    | .    | .    | .    | 57   | 3%  |
| 06:00am                               |      |         | .    | 2    | 3     | 14    | 21    | 24    | 28    | 12   | 5    | .    | .    | .    | .    | 109  | 6%  |
| 07:00am                               | 13   |         | 13   | 12   | 34    | 51    | 68    | 72    | 76    | 12   | 3    | .    | .    | .    | .    | 341  | 20% |
| 08:00am                               | 27   |         | 27   | 21   | 41    | 63    | 84    | 65    | 63    | 16   | 1    | .    | .    | .    | .    | 381  | 22% |
| 09:00am                               | 8    |         | 8    | 11   | 29    | 55    | 74    | 83    | 55    | 17   | 2    | .    | .    | .    | .    | 334  | 19% |
| 10:00am                               | 7    |         | 7    | 12   | 24    | 72    | 75    | 97    | 52    | 8    | 2    | 1    | .    | .    | .    | 350  | 20% |
| 11:00am                               | x    |         | x    | x    | x     | x     | x     | x     | x     | x    | x    | x    | x    | x    | x    |      |     |
| 12:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 01:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 02:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 03:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 04:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 05:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 06:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 07:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 08:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 09:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 10:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| 11:00pm                               |      |         |      |      |       |       |       |       |       |      |      |      |      |      |      |      |     |
| Totals                                | 55   |         | 55   | 59   | 131   | 273   | 366   | 396   | 338   | 78   | 17   | 2    | 1    | 0    | 0    | 1716 |     |
| Percent                               | 3.21 |         | 3.44 | 7.63 | 15.91 | 21.33 | 23.08 | 19.70 | 4.55  | 0.99 | 0.12 | 0.06 | 0.00 | 0.00 | 0.00 |      |     |

## **UConn Crash Data**

UCONN Crash Data  
Town of Montville, CT  
Route 32 from Podurgiel Lane to Crow Hill Road  
June 1, 2024 thru June 1, 2024

| CrashID | Date Of Crash | Day of the Week | Time                  | Crash Severity    | No Of Veh | Milemarker | Road Name | Intersecting Road | Distance | Unit       | Direction | First Harmful Event | Manner of Crash | Weather Condition | Light Condition | Road Surface |
|---------|---------------|-----------------|-----------------------|-------------------|-----------|------------|-----------|-------------------|----------|------------|-----------|---------------------|-----------------|-------------------|-----------------|--------------|
| 1       | 8/79849       | 12/8/2021       | Wednesday<br>4:23 PM  | Prop Dam Only     | 2         | 8.86       | 32        | 2A-E-4            |          |            |           | Other Vehicle       | SS SD           | Clear             | Dusk            | Dry          |
| 2       | 1142932       | 9/6/2023        | Wednesday<br>9:22 AM  | Poss Injury       | 2         | 8.88       | 32        | 2A-3-1 (Exit 5)   | 75       | Feet       | N         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 3       | 865368        | 10/26/2021      | Tuesday<br>8:24 PM    | Prop Dam Only     | 2         | 8.97       | 32        | 2-W-3             | 80       | Feet       | S         | Other Vehicle       | Front to rear   | Rain              | Dark-Lighted    | Wet          |
| 4       | 1143020       | 12/15/2023      | Friday<br>4:21 PM     | Prop Dam Only     | 2         | 8.98       | 32        | 2a-w-3 (exit 1)   | 55       | Feet       | S         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 5       | 9434777       | 6/14/2022       | Tuesday<br>6:13 PM    | Susp Minor Injury | 2         | 9.01       | 32        | AVERY RD          |          |            |           | Other Vehicle       | Angle           | Clear             | Daylight        | Dry          |
| 6       | 1143045       | 1/14/2024       | Sunday<br>6:08 PM     | Prop Dam Only     | 2         | 9.01       | 32        | AVERY RD          |          |            |           | Other Vehicle       | Angle           | Clear             | Dark-Lighted    | Dry          |
| 7       | 944499        | 6/8/2022        | Wednesday<br>2:00 PM  | Prop Dam Only     | 2         | 9.07       | 32        | Avery Rd          | 300      | Feet       | N         | Other Vehicle       | Angle           | Clear             | Daylight        | Dry          |
| 8       | 1146880       | 4/3/2024        | Wednesday<br>10:37 AM | Susp Minor Injury | 2         | 9.07       | 32        | Leo Street        | 230      | Feet       | S         | Other Vehicle       | Angle           | Rain              | Daylight        | Wet          |
| 9       | 920894        | 3/20/2022       | Sunday<br>1:48 PM     | Prop Dam Only     | 2         | 9.08       | 32        | Avery Rd          | 350      | Feet       | N         | Other Vehicle       | SS SD           | Clear             | Daylight        | Dry          |
| 10      | 945280        | 5/12/2022       | Thursday<br>5:35 PM   | Prop Dam Only     | 2         | 9.08       | 32        | Avery rd          | 0.1      | enthsofMll | N         | Other Vehicle       | Angle           | Clear             | Daylight        | Dry          |
| 11      | 1142922       | 8/28/2023       | Monday<br>10:22 AM    | Prop Dam Only     | 2         | 9.08       | 32        | Leo St            | 170      | Feet       | S         | Other Vehicle       | Angle           | Clear             | Daylight        | Dry          |
| 12      | 1143043       | 1/12/2024       | Friday<br>5:05 PM     | Prop Dam Only     | 2         | 9.08       | 32        | LEO ST            | 169      | Feet       | S         | Other Vehicle       | Angle           | Clear             | Dark-Lighted    | Dry          |
| 13      | 944452        | 5/9/2022        | Monday<br>7:29 AM     | Poss Injury       | 2         | 9.09       | 32        | Leo St            | 180      | Feet       | S         | Other Vehicle       | Angle           | Clear             | Daylight        | Dry          |
| 14      | 978814        | 9/28/2022       | Wednesday<br>1:00 PM  | Prop Dam Only     | 2         | 9.09       | 32        | Gallivan Ln       | 300      | Feet       | S         | Other Vehicle       | Angle           | Clear             | Daylight        | Dry          |
| 15      | 961688        | 8/12/2022       | Friday<br>2:53 PM     | Prop Dam Only     | 2         | 9.1        | 32        | Gallivan Lane     | 200      | Feet       | S         | Other Vehicle       | Angle           | Clear             | Daylight        | Dry          |
| 16      | 1159933       | 4/2/2024        | Tuesday<br>9:29 PM    | Prop Dam Only     | 2         | 9.11       | 32        | Leo St            | 16       | Feet       | S         | Other Vehicle       | SS SD           | Rain              | Dark-Lighted    | Wet          |
| 17      | 903528        | 2/2/2022        | Wednesday<br>2:47 PM  | Prop Dam Only     | 2         | 9.12       | 32        | LEO RD            |          |            |           | Other Vehicle       | Other           | Clear             | Daylight        | Wet          |
| 18      | 920613        | 2/22/2022       | Tuesday<br>1:13 PM    | Prop Dam Only     | 2         | 9.13       | 32        | Leo Street        | 45       | Feet       | N         | Other Vehicle       | Angle           | Cloudy            | Daylight        | Wet          |
| 19      | 1035369       | 3/25/2023       | Saturday<br>9:58 PM   | Prop Dam Only     | 2         | 9.13       | 32        | Gallivan Ln       | 50       | Feet       | S         | Other Vehicle       | Front to rear   | Clear             | Dark-Lighted    | Dry          |
| 20      | 1143035       | 1/4/2024        | Thursday<br>11:41 PM  | Poss Injury       | 2         | 9.13       | 32        | GALLIVAN LN       | 50       | Feet       | S         | Other Vehicle       | Front to rear   | Clear             | Dark-Lighted    | Dry          |
| 21      | 826753        | 6/18/2021       | Friday<br>4:38 PM     | Prop Dam Only     | 2         | 9.14       | 32        | GALLIVAN LA       |          |            | W         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 22      | 854136        | 10/1/2021       | Friday<br>2:40 PM     | Prop Dam Only     | 2         | 9.14       | 32        | GALLIVAN LA       |          |            |           | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 23      | 1036343       | 3/21/2023       | Tuesday<br>12:11 PM   | Prop Dam Only     | 2         | 9.14       | 32        | GALLIVAN LA       |          |            |           | Other Vehicle       | SS SD           | Clear             | Daylight        | Dry          |
| 24      | 1142894       | 7/17/2023       | Monday<br>9:07 AM     | Prop Dam Only     | 2         | 9.14       | 32        | GALLIVAN LA       |          |            |           | Other Vehicle       | Unknown         | Clear             | Daylight        | Dry          |
| 25      | 1060216       | 5/28/2023       | Sunday<br>10:11 PM    | Prop Dam Only     | 2         | 9.16       | 32        | Gallivan LN       | 50       | Feet       | N         | Other Vehicle       | SSSD            | Clear             | Dark-Lighted    | Dry          |
| 26      | 940365        | 6/3/2022        | Friday<br>3:14 PM     | Prop Dam Only     | 2         | 9.17       | 32        | Fort Shantok Road | 300      | Feet       | S         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 27      | 1142923       | 8/29/2023       | Tuesday<br>9:07 AM    | Poss Injury       | 2         | 9.19       | 32        | Fort Shantok Rd   | 200      | Feet       | S         | Other Vehicle       | Other           | Clear             | Daylight        | Dry          |
| 28      | 1142909       | 8/7/2023        | Monday<br>6:14 PM     | Poss Injury       | 2         | 9.21       | 32        | Fort Shantok Rd   | 55       | Feet       | S         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 29      | 1062435       | 6/24/2023       | Saturday<br>7:01 PM   | Prop Dam Only     | 2         | 9.22       | 32        | Fort Shantok Rd   | 20       | Feet       | S         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 30      | 1008640       | 12/8/2022       | Thursday<br>9:11 AM   | Prop Dam Only     | 2         | 9.23       | 32        | FORT SHANTOK RD   |          |            |           | Other Vehicle       | Angle           | Clear             | Daylight        | Dry          |
| 31      | 1044296       | 4/27/2023       | Thursday<br>4:01 PM   | Prop Dam Only     | 2         | 9.23       | 32        | FORT SHANTOK RD   |          |            |           | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 32      | 1144828       | 2/17/2024       | Saturday<br>3:21 PM   | Prop Dam Only     | 2         | 9.23       | 32        | FORT SHANTOK RD   |          |            |           | Other Vehicle       | Angle           | Cloudy            | Daylight        | Wet          |
| 33      | 1000382       | 11/28/2022      | Monday<br>2:21 PM     | Prop Dam Only     | 2         | 9.26       | 32        | Fort Shantok Road | 100      | Feet       | N         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 34      | 903527        | 2/2/2022        | Wednesday<br>8:42 AM  | Susp Minor Injury | 3         | 9.31       | 32        | BROADVIEW AV      |          |            |           | Other Vehicle       | Angle           | Cloudy            | Daylight        | Wet          |
| 35      | 893505        | 12/23/2021      | Thursday<br>11:43 AM  | Prop Dam Only     | 2         | 9.35       | 32        | Cedar Ln          | 50       | Feet       | N         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 36      | 1142965       | 10/19/2023      | Thursday<br>2:16 PM   | Poss Injury       | 2         | 9.45       | 32        | Crow Hill Road    | 200      | Feet       | S         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 37      | 1142971       | 10/25/2023      | Wednesday<br>3:39 PM  | Prop Dam Only     | 3         | 9.45       | 32        | Crow Hill Rd      | 215      | Feet       | S         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 38      | 950108        | 7/7/2022        | Thursday<br>4:43 PM   | Susp Minor Injury | 4         | 9.46       | 32        | Crow Hill Rd      | 200      | Feet       | S         | Other Vehicle       | Front to rear   | Clear             | Daylight        | Dry          |
| 39      | 1143014       | 12/11/2023      | Monday<br>11:34 PM    | Poss Injury       | 1         | 9.47       | 32        | CROW HILL ROAD    | 115      | Feet       | S         | Utility Pole        | Not Applicable  | Clear             | Dark-Lighted    | Dry          |
| 40      | 1142959       | 10/13/2023      | Friday<br>6:58 PM     | Prop Dam Only     | 2         | 9.51       | 32        | Webb Dr           | 790      | Feet       | N         | Other Vehicle       | Front to rear   | Clear             | Dusk            | Dry          |
| 41      | 1143074       | 3/6/2024        | Wednesday<br>5:23 PM  | Prop Dam Only     | 2         | 9.51       | 32        | Crow Hill Rd      | 90       | Feet       | N         | Other Vehicle       | SS SD           | Rain              | Daylight        | Wet          |