

**OLD COLONY PLANNING COUNCIL**

# Sandwich Street (Route 3A)

Lincoln, South, & Fremont Street Intersections

Traffic Data Collection and Analysis Project

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Plymouth, MA

Local Highway Technical Assistance Project

9/8/2011



The preparation of this report has been financed in part through grants from the Federal Highway Administration, U.S. Department of Transportation, under Metropolitan Planning Program, Section 104(f) of Title 23, U.S. Code, under Contract 0052455. The views and opinions of the Old Colony Planning Council expressed herein do not necessarily state or reflect those of the U. S. Department of Transportation.

# Old Colony Planning Council



Robert G. Moran, Jr.  
President

70 School Street  
Brockton, MA 02301-4097

Pasquale Ciaramella  
Executive Director

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Email: [info@ocpcrpa.org](mailto:info@ocpcrpa.org)  
Website: [www.ocpcrpa.org](http://www.ocpcrpa.org)

September 8, 2011

Mr. Jonathan Beder, Director  
Plymouth Department of Public Works  
159 Camelot Drive  
Plymouth, MA 02360

RE: Sandwich Street (Route 3A) Lincoln, South, & Fremont Street Intersections, Plymouth, MA

Dear Mr. Beder,

Per your request, please find the enclosed Turning Movement Counts (TMC) conducted by Old Colony Planning Council (OCPC) for the three intersections on Sandwich Street (Route 3A). Both the AM and PM counts were conducted on May 3, 2011 from 6-9 AM and 3-6 PM.

This correspondence includes a total of six (6) Turning Movement Counts (TMC) conducted at the Sandwich Street (Route 3A) intersections of South Street, Lincoln Street, and Fremont Street.

Should you have any questions regarding this material, or if any additional information is needed, please contact Jed Cornock at 508.583.1833 x215 or [jcornock@ocpcrpa.org](mailto:jcornock@ocpcrpa.org).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Charles Kilmer', with a long horizontal flourish extending to the right.

Charles Kilmer  
Transportation Program Manager

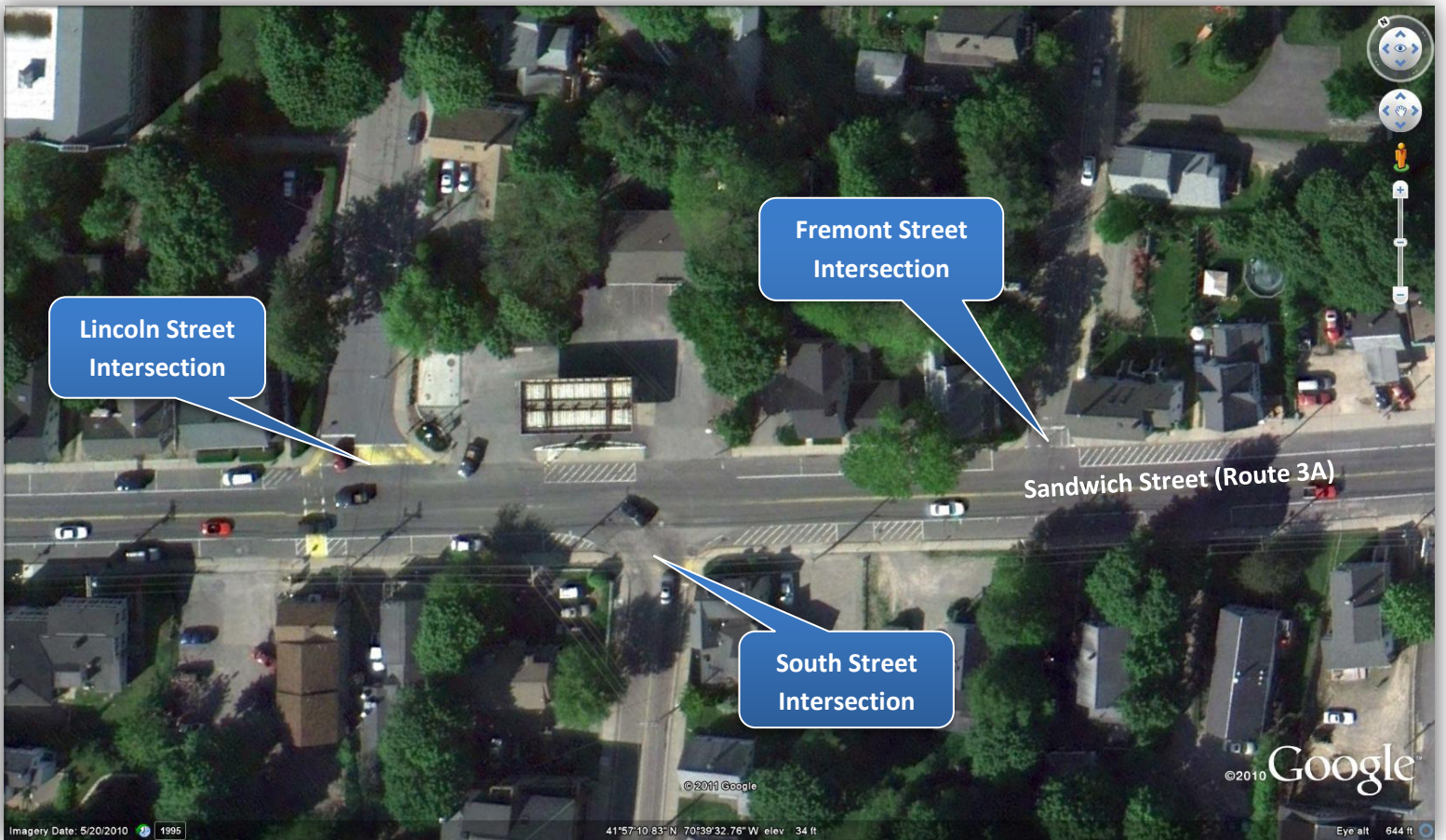
Enclosures:

Sandwich Street (Route 3A) Lincoln, South, & Fremont Street Intersections, Plymouth, MA

cc: Mr. William Hallisey, Jr., Chairman, Plymouth Board of Selectmen  
Mr. Mark Stankiewicz, Plymouth Town Manager  
Mr. Sid Kashi, P.E., Plymouth Town Engineer and JTC Delegate  
Mr. James Downey, EIT, Plymouth Transportation Engineer  
Chief Michael Botieri, Plymouth Police Department  
Mr. Lee Hartmann, AICP, Plymouth Planning Director and OCPC Delegate  
Ms. Valerie Massard, AICP, Plymouth Senior Planner and OCPC Alternate  
Mr. Andrew Lehmann, MPO Activities Group, MassDOT  
Mr. Paul Maloney, P.E., Metropolitan Planner, FHWA

**Old Colony Planning Council  
Sandwich Street (Route 3A) Lincoln, South, & Fremont Street Intersections  
Plymouth, MA**

*Turning Movement Count (TMC) Location Diagram*



*Both AM & PM Turning Movement Counts (TMCs) were conducted on May 3, 2011  
Hours of TMCs were from 6-9 AM and 3-6 PM*

# Turning Movement Counts (TMCs)

AM & PM Peak Periods

*Sandwich Street (Route 3A) & Lincoln Street*

*Sandwich Street (Route 3A) & South Street*

*Sandwich Street (Route 3A) & Fremont Street*



Old Colony Planning Council  
 70 School Street  
 Brockton, MA 02301  
 508-583-1833  
 www.ocpcrpa.org

Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (5) / KM  
 Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Lincoln\_AM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 1

Groups Printed- 3 - FHWA 4 - 13

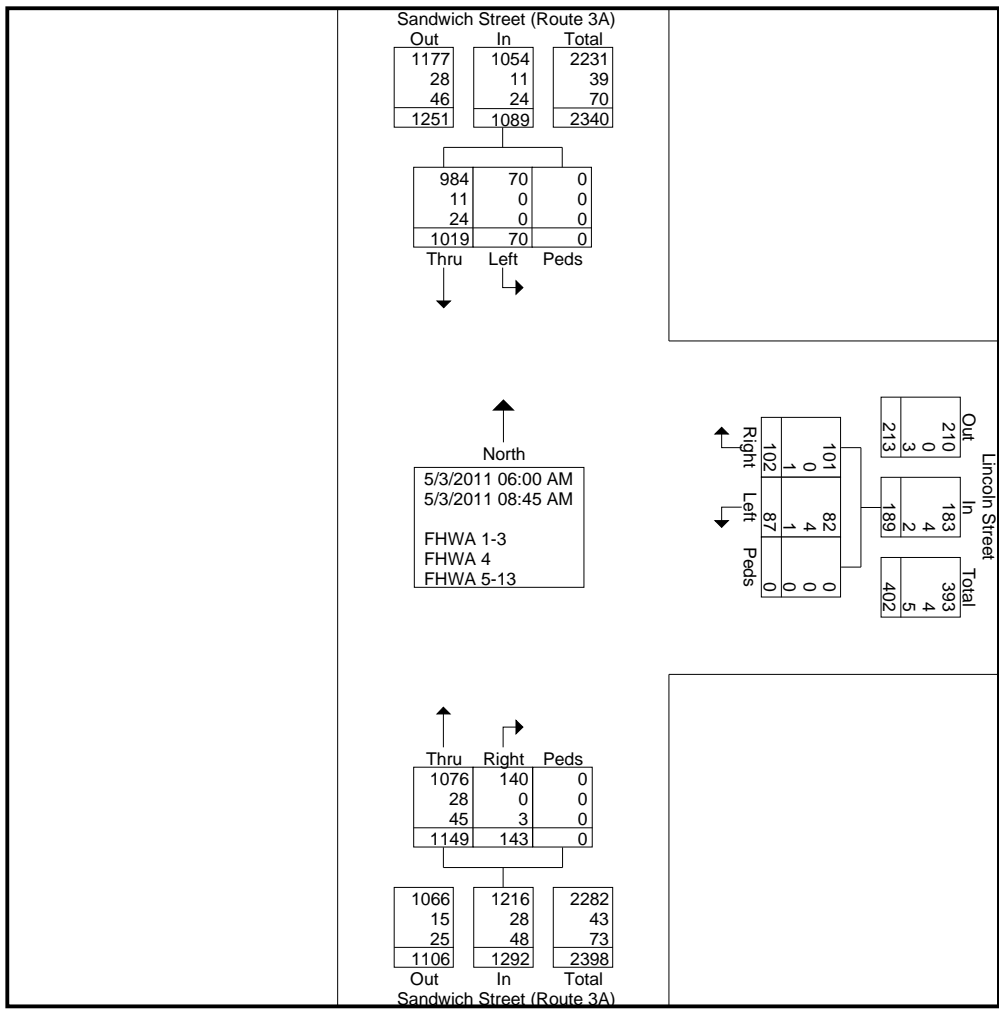
| Start Time  | Sandwich Street (Route 3A)<br>Southbound |      |      |            | Lincoln Street<br>Westbound |       |      |            | Sandwich Street (Route 3A)<br>Northbound |       |      |            | Int. Total |
|-------------|--|------|------|------------|-----------------------------|-------|------|------------|--|-------|------|------------|------------|
|             | Left                                     | Thru | Peds | App. Total | Left                        | Right | Peds | App. Total | Thru                                     | Right | Peds | App. Total |            |
| Factor      | 1.0                                      | 1.0  | 1.0  |            | 1.0                         | 1.0   | 1.0  |            | 1.0                                      | 1.0   | 1.0  |            |            |
| 06:00 AM    | 0  | 30   | 0    | 30         | 2                           | 0     | 0    | 2          | 32                                       | 2     | 0    | 34         | 66         |
| 06:15 AM    | 1  | 41   | 0    | 42         | 1                           | 1     | 0    | 2          | 47                                       | 0     | 0    | 47         | 91         |
| 06:30 AM    | 1  | 62   | 0    | 63         | 0                           | 0     | 0    | 0          | 52                                       | 3     | 0    | 55         | 118        |
| 06:45 AM    | 2  | 98   | 0    | 100        | 3                           | 0     | 0    | 3          | 69                                       | 9     | 0    | 78         | 181        |
| Total       | 4  | 231  | 0    | 235        | 6                           | 1     | 0    | 7          | 200                                      | 14    | 0    | 214        | 456        |
| 07:00 AM    | 9  | 145  | 0    | 154        | 2                           | 6     | 0    | 8          | 96                                       | 5     | 0    | 101        | 263        |
| 07:15 AM    | 15                                       | 106  | 0    | 121        | 3                           | 4     | 0    | 7          | 104                                      | 23    | 0    | 127        | 255        |
| 07:30 AM    | 10                                       | 74   | 0    | 84         | 2                           | 5     | 0    | 7          | 116                                      | 27    | 0    | 143        | 234        |
| 07:45 AM    | 4  | 95   | 0    | 99         | 5                           | 7     | 0    | 12         | 131                                      | 11    | 0    | 142        | 253        |
| Total       | 38                                       | 420  | 0    | 458        | 12                          | 22    | 0    | 34         | 447                                      | 66    | 0    | 513        | 1005       |
| 08:00 AM    | 6  | 108  | 0    | 114        | 12                          | 19    | 0    | 31         | 122                                      | 21    | 0    | 143        | 288        |
| 08:15 AM    | 5  | 83   | 0    | 88         | 16                          | 12    | 0    | 28         | 118                                      | 20    | 0    | 138        | 254        |
| 08:30 AM    | 4  | 67   | 0    | 71         | 8                           | 17    | 0    | 25         | 116                                      | 9     | 0    | 125        | 221        |
| 08:45 AM    | 13                                       | 110  | 0    | 123        | 33                          | 31    | 0    | 64         | 146                                      | 13    | 0    | 159        | 346        |
| Total       | 28                                       | 368  | 0    | 396        | 69                          | 79    | 0    | 148        | 502                                      | 63    | 0    | 565        | 1109       |
| Grand Total | 70                                       | 1019 | 0    | 1089       | 87                          | 102   | 0    | 189        | 1149                                     | 143   | 0    | 1292       | 2570       |
| Apprch %    | 6.4                                      | 93.6 | 0    |            | 46                          | 54    | 0    |            | 88.9                                     | 11.1  | 0    |            |            |
| Total %     | 2.7                                      | 39.6 | 0    | 42.4       | 3.4                         | 4     | 0    | 7.4        | 44.7                                     | 5.6   | 0    | 50.3       |            |
| FHWA 1-3    | 70                                       | 984  | 0    | 1054       | 82                          | 101   | 0    | 183        | 1076                                     | 140   | 0    | 1216       | 2453       |
| % FHWA 1-3  | 100                                      | 96.6 | 0    | 96.8       | 94.3                        | 99    | 0    | 96.8       | 93.6                                     | 97.9  | 0    | 94.1       | 95.4       |
| FHWA 4      | 0  | 11   | 0    | 11         | 4                           | 0     | 0    | 4          | 28                                       | 0     | 0    | 28         | 43         |
| % FHWA 4    | 0  | 1.1  | 0    | 1          | 4.6                         | 0     | 0    | 2.1        | 2.4                                      | 0     | 0    | 2.2        | 1.7        |
| FHWA 5-13   | 0  | 24   | 0    | 24         | 1                           | 1     | 0    | 2          | 45                                       | 3     | 0    | 48         | 74         |
| % FHWA 5-13 | 0  | 2.4  | 0    | 2.2        | 1.1                         | 1     | 0    | 1.1        | 3.9                                      | 2.1   | 0    | 3.7        | 2.9        |



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 Board # & Staff: DB-400 (5) / KM  
 Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Lincoln\_AM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 2

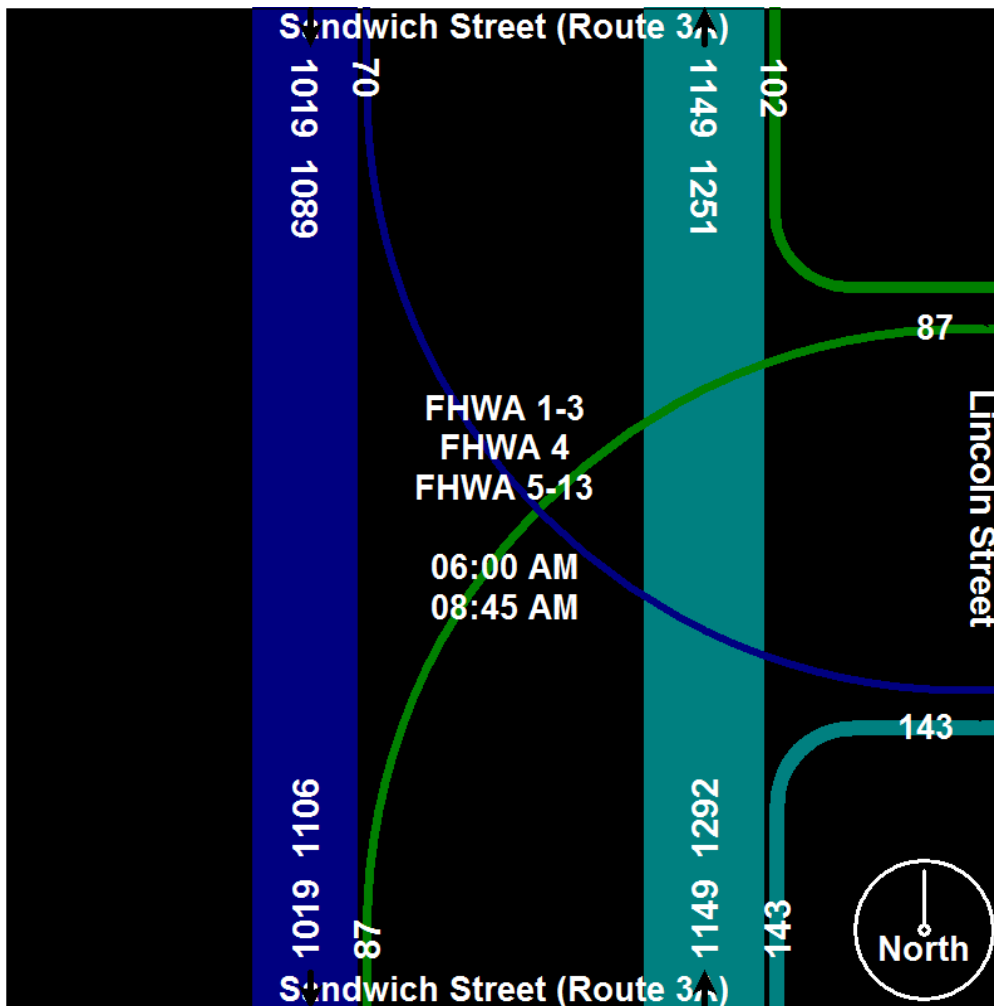




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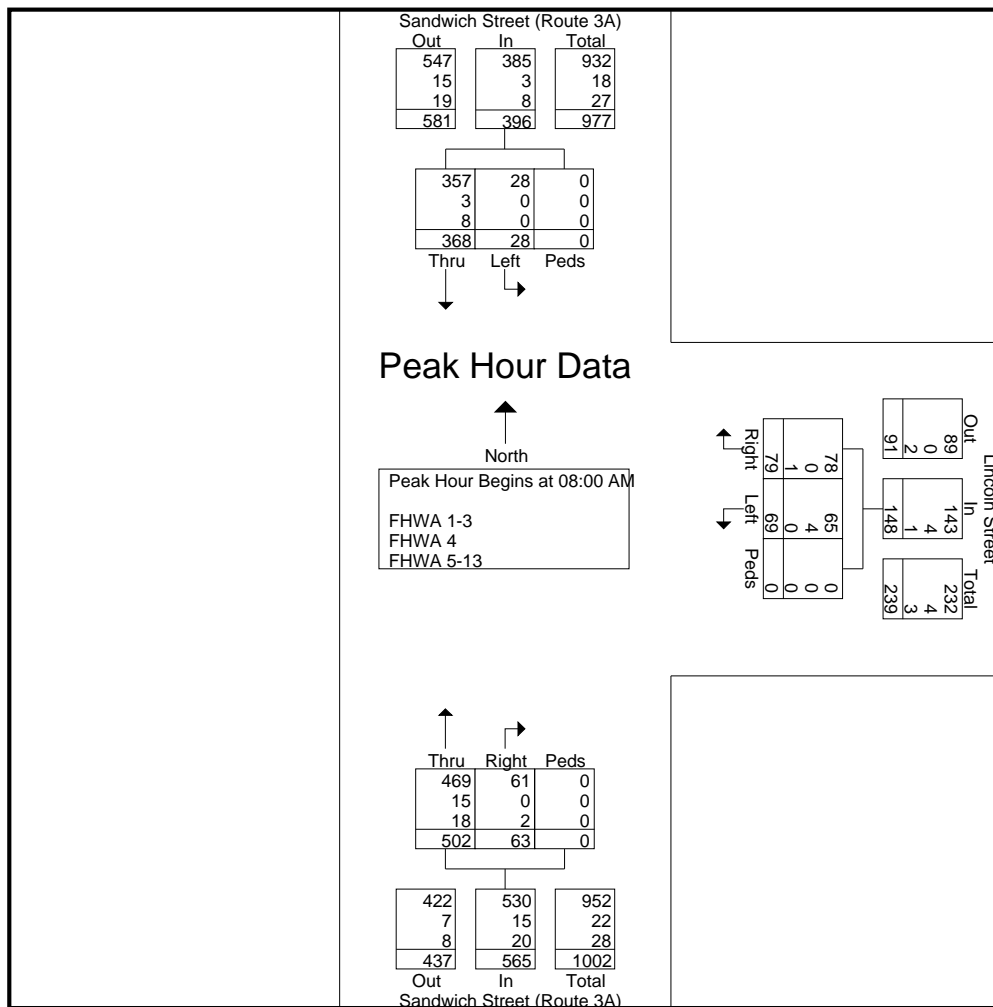


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 Page No : 4

| Start Time   | Sandwich Street (Route 3A) Southbound |            |      |            | Lincoln Street Westbound |           |      |            | Sandwich Street (Route 3A) Northbound |       |      |            | Int. Total |
|--|---------------------------------------|------------|------|------------|--------------------------|-----------|------|------------|---------------------------------------|-------|------|------------|------------|
|  | Left                                  | Thru       | Peds | App. Total | Left                     | Right     | Peds | App. Total | Thru                                  | Right | Peds | App. Total |            |
| Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1 |                                       |            |      |            |                          |           |      |            |                                       |       |      |            |            |
| Peak Hour for Entire Intersection Begins at 08:00 AM       |                                       |            |      |            |                          |           |      |            |                                       |       |      |            |            |
| 08:00 AM   | 6                                     | 108        | 0    | 114        | 12                       | 19        | 0    | 31         | 122                                   | 21    | 0    | 143        | 288        |
| 08:15 AM   | 5                                     | 83         | 0    | 88         | 16                       | 12        | 0    | 28         | 118                                   | 20    | 0    | 138        | 254        |
| 08:30 AM   | 4                                     | 67         | 0    | 71         | 8                        | 17        | 0    | 25         | 116                                   | 9     | 0    | 125        | 221        |
| 08:45 AM   | <b>13</b>                             | <b>110</b> | 0    | <b>123</b> | <b>33</b>                | <b>31</b> | 0    | <b>64</b>  | <b>146</b>                            | 13    | 0    | <b>159</b> | <b>346</b> |
| Total Volume   | 28                                    | 368        | 0    | 396        | 69                       | 79        | 0    | 148        | 502                                   | 63    | 0    | 565        | 1109       |
| % App. Total   | 7.1                                   | 92.9       | 0    |            | 46.6                     | 53.4      | 0    |            | 88.8                                  | 11.2  | 0    |            |            |
| PHF  | .538                                  | .836       | .000 | .805       | .523                     | .637      | .000 | .578       | .860                                  | .750  | .000 | .888       | .801       |
| FHWA 1-3   | 28                                    | 357        | 0    | 385        | 65                       | 78        | 0    | 143        | 469                                   | 61    | 0    | 530        | 1058       |
| % FHWA 1-3   | 100                                   | 97.0       | 0    | 97.2       | 94.2                     | 98.7      | 0    | 96.6       | 93.4                                  | 96.8  | 0    | 93.8       | 95.4       |
| FHWA 4   | 0                                     | 3          | 0    | 3          | 4                        | 0         | 0    | 4          | 15                                    | 0     | 0    | 15         | 22         |
| % FHWA 4   | 0                                     | 0.8        | 0    | 0.8        | 5.8                      | 0         | 0    | 2.7        | 3.0                                   | 0     | 0    | 2.7        | 2.0        |
| FHWA 5-13  | 0                                     | 8          | 0    | 8          | 0                        | 1         | 0    | 1          | 18                                    | 2     | 0    | 20         | 29         |
| % FHWA 5-13  | 0                                     | 2.2        | 0    | 2.0        | 0                        | 1.3       | 0    | 0.7        | 3.6                                   | 3.2   | 0    | 3.5        | 2.6        |

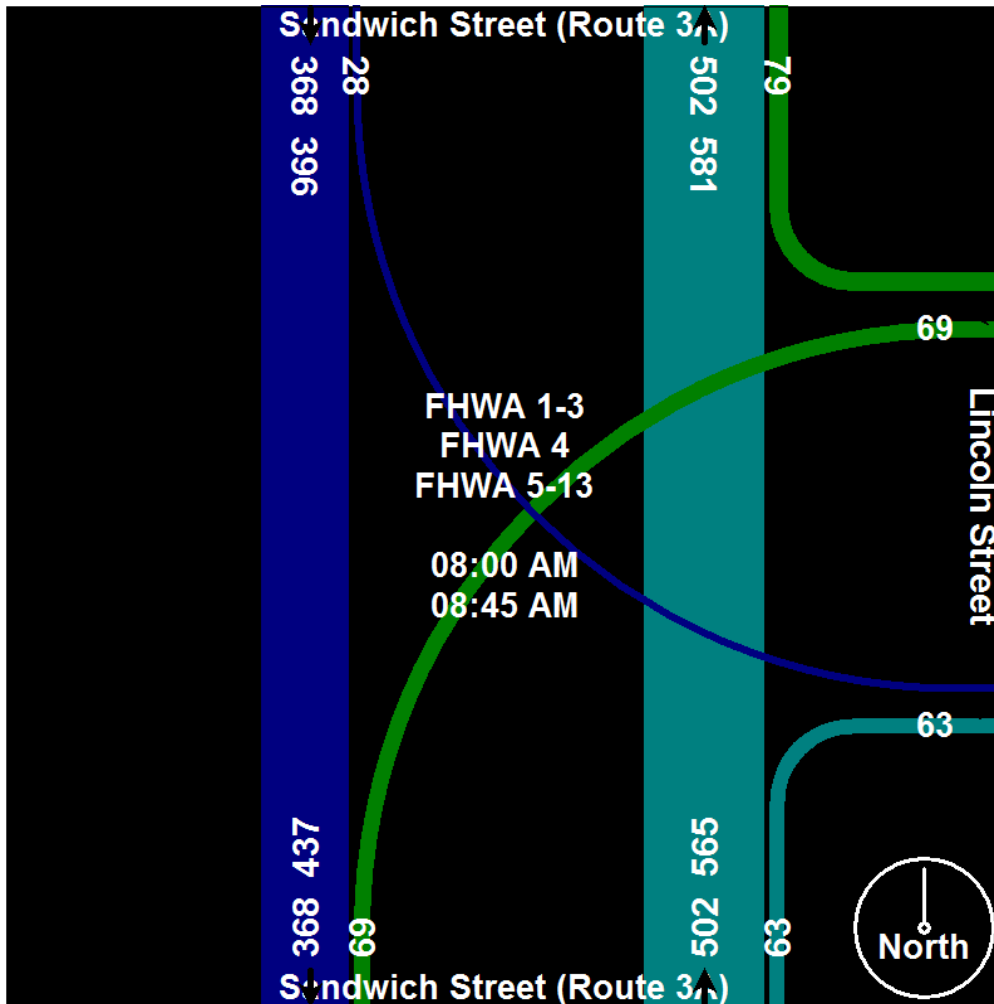




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Page No : 6

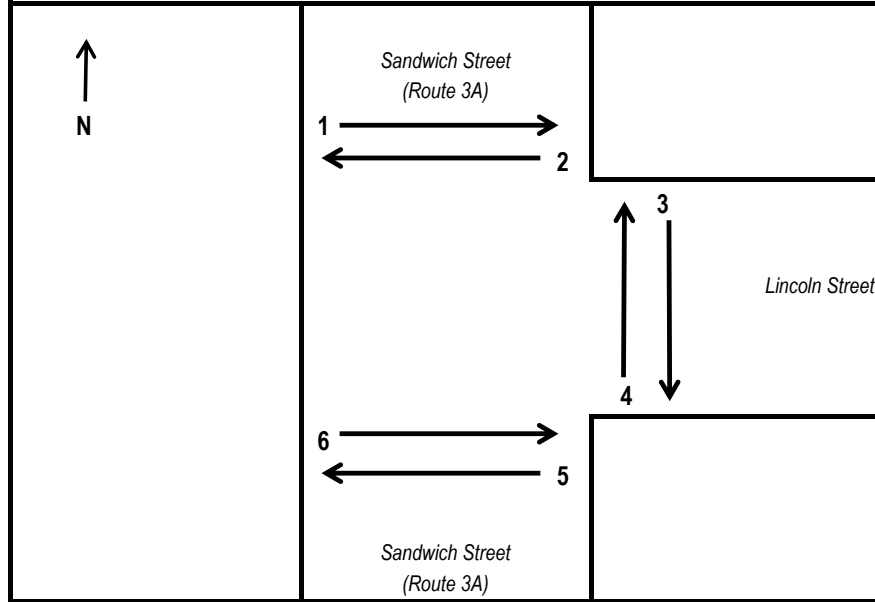
Image 1



# Old Colony Planning Council

## Intersection Pedestrian Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ Lincoln Street  
**Weather:** Clear      **Board #:** DB-400 (5)      **Staff:** KM      **Date:** 5/3/2011



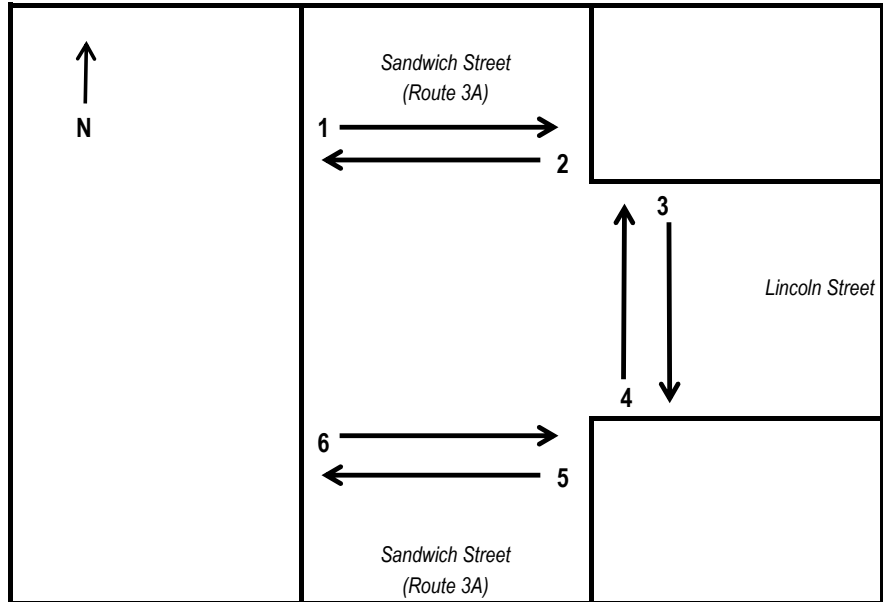
| Interval          |             | 1         | 2        | 3         | 4         | 5        | 6        | 7        | 8        |
|-------------------|-------------|-----------|----------|-----------|-----------|----------|----------|----------|----------|
| 6:00 AM - 6:15 AM | Peds        |           |          |           |           |          |          |          |          |
| 6:15 AM - 6:30 AM | Peds        |           | 1        | 1         | 3         |          |          |          |          |
| 6:30 AM - 6:45 AM | Peds        |           |          | 5         | 1         |          |          |          |          |
| 6:45 AM - 7:00 AM | Peds        |           |          | 1         |           |          |          |          |          |
| 7:00 AM - 7:15 AM | Peds        |           |          |           |           |          |          |          |          |
| 7:15 AM - 7:30 AM | Peds        | 2         |          | 2         | 1         |          |          |          |          |
| 7:30 AM - 7:45 AM | Peds        |           | 1        |           |           |          |          |          |          |
| 7:45 AM - 8:00 AM | Peds        | 1         | 2        | 1         | 2         |          | 1        |          |          |
| 8:00 AM - 8:15 AM | Peds        | 1         |          | 1         | 2         |          |          |          |          |
| 8:15 AM - 8:30 AM | Peds        | 2         |          |           |           |          |          |          |          |
| 8:30 AM - 8:45 AM | Peds        | 2         |          |           | 1         |          |          |          |          |
| 8:45 AM - 9:00 AM | Peds        | 7         | 4        | 7         | 7         |          |          |          |          |
| <b>Total</b>      | <b>Peds</b> | <b>15</b> | <b>8</b> | <b>18</b> | <b>17</b> | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b> |

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_

# Old Colony Planning Council

## Intersection Bicycle Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ Lincoln Street  
**Weather:** Clear      **Board #:** DB-400 (5)      **Staff:** KM      **Date:** 5/3/2011



| Interval          |              | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        |
|-------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 6:00 AM - 6:15 AM | Bikes        |          |          |          |          |          |          |          |          |
| 6:15 AM - 6:30 AM | Bikes        |          |          |          | 1        |          |          |          |          |
| 6:30 AM - 6:45 AM | Bikes        |          |          | 1        | 1        |          |          |          |          |
| 6:45 AM - 7:00 AM | Bikes        |          | 1        |          |          |          |          |          |          |
| 7:00 AM - 7:15 AM | Bikes        |          |          |          |          |          |          |          |          |
| 7:15 AM - 7:30 AM | Bikes        |          |          |          |          |          |          |          |          |
| 7:30 AM - 7:45 AM | Bikes        |          |          |          |          |          |          |          |          |
| 7:45 AM - 8:00 AM | Bikes        |          |          |          |          |          |          |          |          |
| 8:00 AM - 8:15 AM | Bikes        |          |          |          |          |          |          |          |          |
| 8:15 AM - 8:30 AM | Bikes        |          |          |          |          |          |          |          |          |
| 8:30 AM - 8:45 AM | Bikes        |          |          |          |          |          |          |          |          |
| 8:45 AM - 9:00 AM | Bikes        |          |          |          | 1        |          |          |          |          |
| <b>Total</b>      | <b>Bikes</b> | <b>0</b> | <b>1</b> | <b>1</b> | <b>3</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Comments:

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 70 School Street  
 Brockton, MA 02301  
 508-583-1833  
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Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (6) / AV  
 Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Lincoln\_PM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 1

Groups Printed- 3 - FHWA 4 - 13

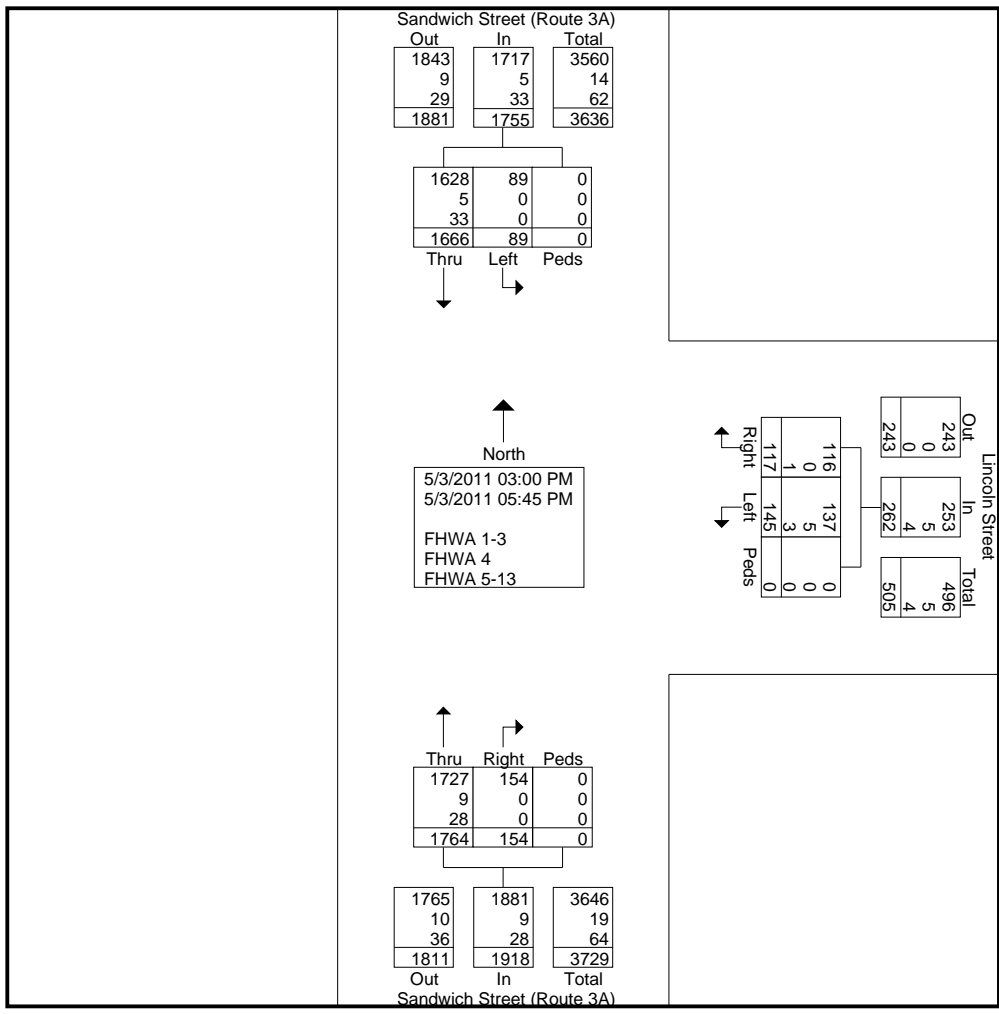
| Start Time  | Sandwich Street (Route 3A)<br>Southbound |      |      |            | Lincoln Street<br>Westbound |       |      |            | Sandwich Street (Route 3A)<br>Northbound |       |      |            | Int. Total |
|-------------|--|------|------|------------|-----------------------------|-------|------|------------|--|-------|------|------------|------------|
|             | Left                                     | Thru | Peds | App. Total | Left                        | Right | Peds | App. Total | Thru                                     | Right | Peds | App. Total |            |
| Factor      | 1.0                                      | 1.0  | 1.0  |            | 1.0                         | 1.0   | 1.0  |            | 1.0                                      | 1.0   | 1.0  |            |            |
| 03:00 PM    | 7  | 118  | 0    | 125        | 13                          | 6     | 0    | 19         | 146                                      | 9     | 0    | 155        | 299        |
| 03:15 PM    | 6  | 134  | 0    | 140        | 29                          | 17    | 0    | 46         | 146                                      | 10    | 0    | 156        | 342        |
| 03:30 PM    | 4  | 135  | 0    | 139        | 8                           | 10    | 0    | 18         | 159                                      | 11    | 0    | 170        | 327        |
| 03:45 PM    | 7  | 129  | 0    | 136        | 11                          | 15    | 0    | 26         | 157                                      | 13    | 0    | 170        | 332        |
| Total       | 24                                       | 516  | 0    | 540        | 61                          | 48    | 0    | 109        | 608                                      | 43    | 0    | 651        | 1300       |
| 04:00 PM    | 7  | 144  | 0    | 151        | 15                          | 10    | 0    | 25         | 177                                      | 9     | 0    | 186        | 362        |
| 04:15 PM    | 8  | 152  | 0    | 160        | 3                           | 5     | 0    | 8          | 127                                      | 19    | 0    | 146        | 314        |
| 04:30 PM    | 9  | 140  | 0    | 149        | 8                           | 11    | 0    | 19         | 148                                      | 16    | 0    | 164        | 332        |
| 04:45 PM    | 7  | 130  | 0    | 137        | 9                           | 9     | 0    | 18         | 139                                      | 13    | 0    | 152        | 307        |
| Total       | 31                                       | 566  | 0    | 597        | 35                          | 35    | 0    | 70         | 591                                      | 57    | 0    | 648        | 1315       |
| 05:00 PM    | 7  | 176  | 0    | 183        | 12                          | 10    | 0    | 22         | 144                                      | 6     | 0    | 150        | 355        |
| 05:15 PM    | 9  | 152  | 0    | 161        | 16                          | 9     | 0    | 25         | 137                                      | 15    | 0    | 152        | 338        |
| 05:30 PM    | 9  | 136  | 0    | 145        | 14                          | 9     | 0    | 23         | 138                                      | 16    | 0    | 154        | 322        |
| 05:45 PM    | 9  | 120  | 0    | 129        | 7                           | 6     | 0    | 13         | 146                                      | 17    | 0    | 163        | 305        |
| Total       | 34                                       | 584  | 0    | 618        | 49                          | 34    | 0    | 83         | 565                                      | 54    | 0    | 619        | 1320       |
| Grand Total | 89                                       | 1666 | 0    | 1755       | 145                         | 117   | 0    | 262        | 1764                                     | 154   | 0    | 1918       | 3935       |
| Apprch %    | 5.1                                      | 94.9 | 0    |            | 55.3                        | 44.7  | 0    |            | 92                                       | 8     | 0    |            |            |
| Total %     | 2.3                                      | 42.3 | 0    | 44.6       | 3.7                         | 3     | 0    | 6.7        | 44.8                                     | 3.9   | 0    | 48.7       |            |
| FHWA 1-3    | 89                                       | 1628 | 0    | 1717       | 137                         | 116   | 0    | 253        | 1727                                     | 154   | 0    | 1881       | 3851       |
| % FHWA 1-3  | 100                                      | 97.7 | 0    | 97.8       | 94.5                        | 99.1  | 0    | 96.6       | 97.9                                     | 100   | 0    | 98.1       | 97.9       |
| FHWA 4      | 0  | 5    | 0    | 5          | 5                           | 0     | 0    | 5          | 9  | 0     | 0    | 9          | 19         |
| % FHWA 4    | 0  | 0.3  | 0    | 0.3        | 3.4                         | 0     | 0    | 1.9        | 0.5                                      | 0     | 0    | 0.5        | 0.5        |
| FHWA 5-13   | 0  | 33   | 0    | 33         | 3                           | 1     | 0    | 4          | 28                                       | 0     | 0    | 28         | 65         |
| % FHWA 5-13 | 0  | 2    | 0    | 1.9        | 2.1                         | 0.9   | 0    | 1.5        | 1.6                                      | 0     | 0    | 1.5        | 1.7        |



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 Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Lincoln\_PM  
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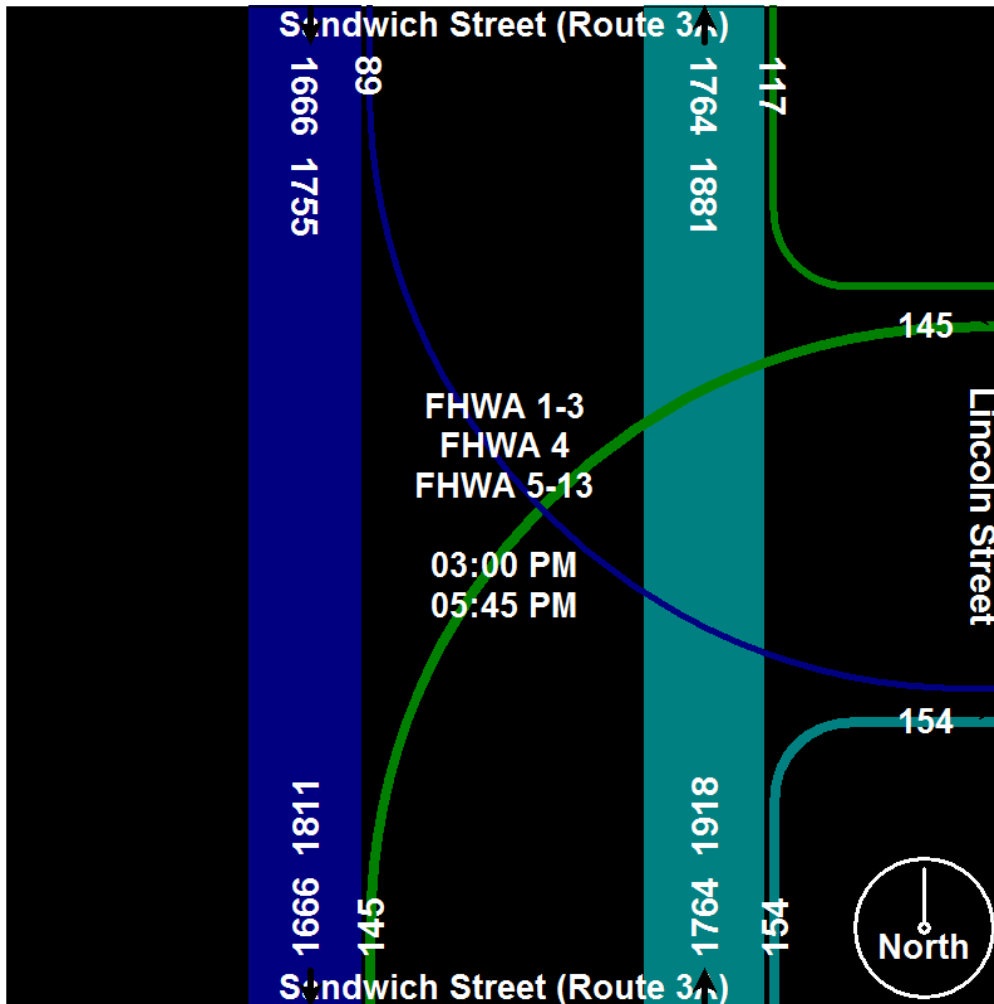




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Start Date : 5/3/2011  
Page No : 3





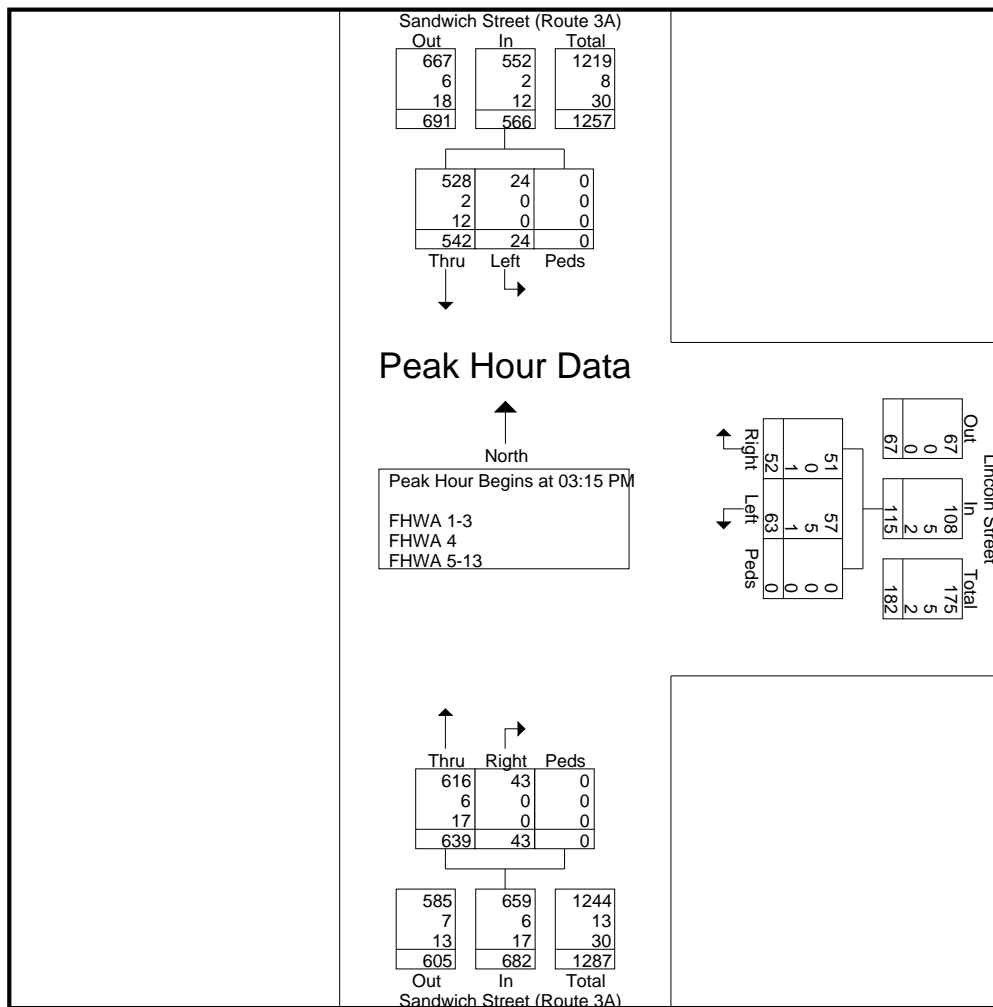


Old Colony Planning Council  
 70 School Street  
 Brockton, MA 02301  
 508-583-1833  
 www.ocpcrpa.org

Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (6) / AV  
 Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Lincoln\_PM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 4

| Start Time   | Sandwich Street (Route 3A) Southbound |      |      |            | Lincoln Street Westbound |       |      |            | Sandwich Street (Route 3A) Northbound |       |      |            | Int. Total |
|--|---------------------------------------|------|------|------------|--------------------------|-------|------|------------|---------------------------------------|-------|------|------------|------------|
|  | Left                                  | Thru | Peds | App. Total | Left                     | Right | Peds | App. Total | Thru                                  | Right | Peds | App. Total |            |
| Peak Hour Analysis From 03:00 PM to 05:30 PM - Peak 1 of 1 |                                       |      |      |            |                          |       |      |            |                                       |       |      |            |            |
| Peak Hour for Entire Intersection Begins at 03:15 PM       |                                       |      |      |            |                          |       |      |            |                                       |       |      |            |            |
| 03:15 PM   | 6                                     | 134  | 0    | 140        | 29                       | 17    | 0    | 46         | 146                                   | 10    | 0    | 156        | 342        |
| 03:30 PM   | 4                                     | 135  | 0    | 139        | 8                        | 10    | 0    | 18         | 159                                   | 11    | 0    | 170        | 327        |
| 03:45 PM   | 7                                     | 129  | 0    | 136        | 11                       | 15    | 0    | 26         | 157                                   | 13    | 0    | 170        | 332        |
| 04:00 PM   | 7                                     | 144  | 0    | 151        | 15                       | 10    | 0    | 25         | 177                                   | 9     | 0    | 186        | 362        |
| Total Volume   | 24                                    | 542  | 0    | 566        | 63                       | 52    | 0    | 115        | 639                                   | 43    | 0    | 682        | 1363       |
| % App. Total   | 4.2                                   | 95.8 | 0    |            | 54.8                     | 45.2  | 0    |            | 93.7                                  | 6.3   | 0    |            |            |
| PHF  | .857                                  | .941 | .000 | .937       | .543                     | .765  | .000 | .625       | .903                                  | .827  | .000 | .917       | .941       |
| FHWA 1-3   | 24                                    | 528  | 0    | 552        | 57                       | 51    | 0    | 108        | 616                                   | 43    | 0    | 659        | 1319       |
| % FHWA 1-3   | 100                                   | 97.4 | 0    | 97.5       | 90.5                     | 98.1  | 0    | 93.9       | 96.4                                  | 100   | 0    | 96.6       | 96.8       |
| FHWA 4   | 0                                     | 2    | 0    | 2          | 5                        | 0     | 0    | 5          | 6                                     | 0     | 0    | 6          | 13         |
| % FHWA 4   | 0                                     | 0.4  | 0    | 0.4        | 7.9                      | 0     | 0    | 4.3        | 0.9                                   | 0     | 0    | 0.9        | 1.0        |
| FHWA 5-13  | 0                                     | 12   | 0    | 12         | 1                        | 1     | 0    | 2          | 17                                    | 0     | 0    | 17         | 31         |
| % FHWA 5-13  | 0                                     | 2.2  | 0    | 2.1        | 1.6                      | 1.9   | 0    | 1.7        | 2.7                                   | 0     | 0    | 2.5        | 2.3        |

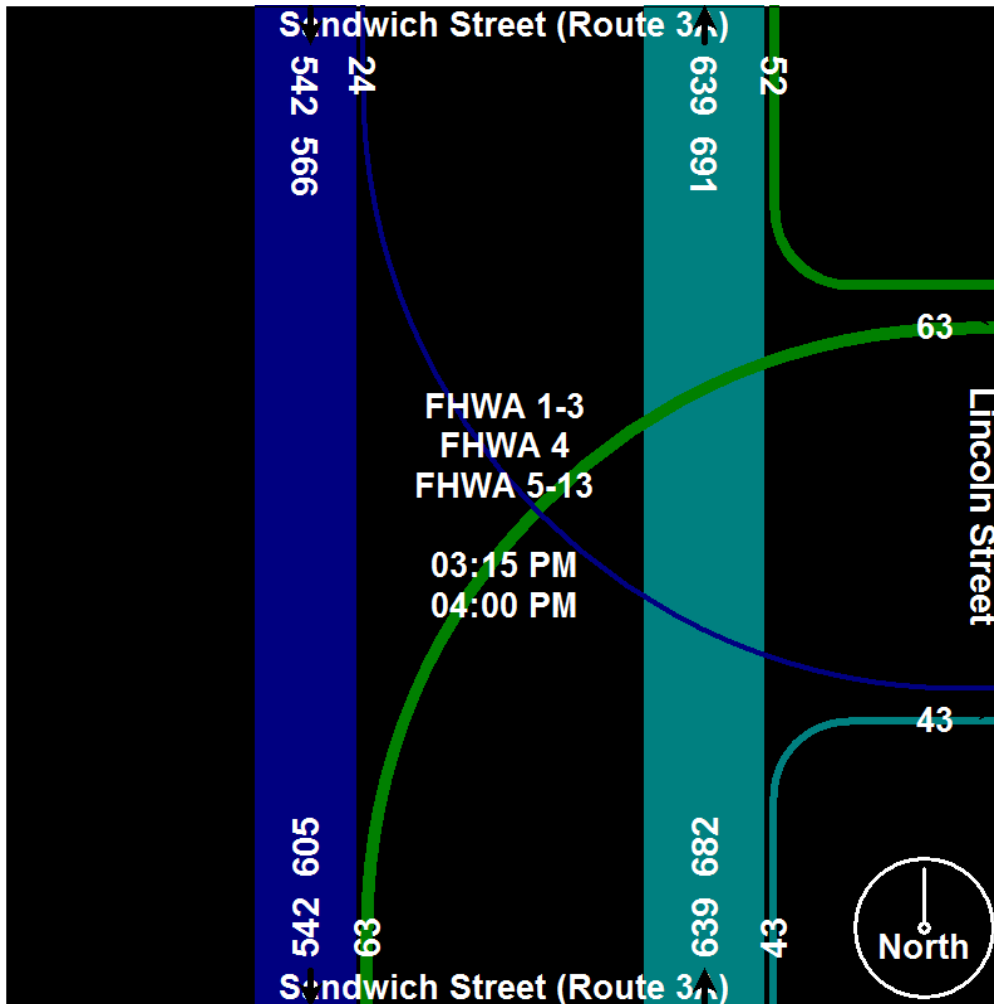




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Community: Plymouth  
Weather: Clear  
Board # & Staff: DB-400 (6) / AV  
Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Lincoln\_PM  
Site Code : 239  
Start Date : 5/3/2011  
Page No : 5





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Weather: Clear  
Board # & Staff: DB-400 (6) / AV  
Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Lincoln\_PM  
Site Code : 239  
Start Date : 5/3/2011  
Page No : 6

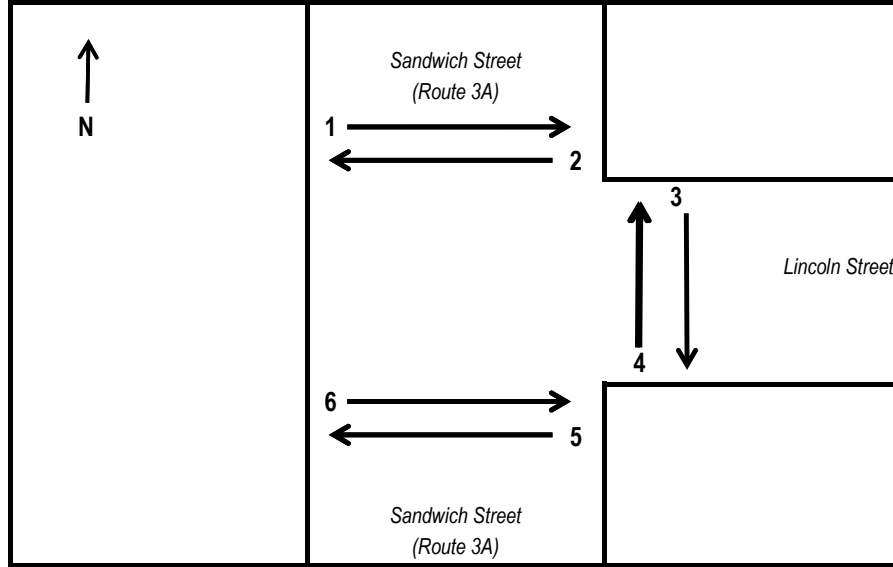
Image 1



# Old Colony Planning Council

## Intersection Pedestrian Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ Lincoln Street  
**Weather:** Clear      **Board #:** DB-400 (6)      **Staff:** AV      **Date:** 5/3/2011



| Interval          |             | 1         | 2         | 3         | 4         | 5        | 6        | 7        | 8        |
|-------------------|-------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|
| 3:00 PM - 3:15 PM | Peds        | 10        | 1         | 1         | 2         |          |          |          |          |
| 3:15 PM - 3:30 PM | Peds        | 4         | 16        | 6         | 8         |          |          |          |          |
| 3:30 PM - 3:45 PM | Peds        | 3         |           | 1         | 1         |          |          |          |          |
| 3:45 PM - 4:00 PM | Peds        |           | 1         | 1         | 2         |          |          |          |          |
| 4:00 PM - 4:15 PM | Peds        |           | 4         |           |           |          |          |          |          |
| 4:15 PM - 4:30 PM | Peds        | 1         |           | 1         |           |          |          |          |          |
| 4:30 PM - 4:45 PM | Peds        | 5         | 2         |           | 3         |          |          |          |          |
| 4:45 PM - 5:00 PM | Peds        |           |           |           |           |          |          |          |          |
| 5:00 PM - 5:15 PM | Peds        |           | 1         | 4         | 1         |          |          |          |          |
| 5:15 PM - 5:30 PM | Peds        | 3         | 1         | 1         | 2         |          |          |          |          |
| 5:30 PM - 5:45 PM | Peds        | 4         |           |           | 2         |          |          |          |          |
| 5:45 PM - 6:00 PM | Peds        | 7         | 7         | 1         | 1         |          |          |          |          |
| <b>Total</b>      | <b>Peds</b> | <b>37</b> | <b>33</b> | <b>16</b> | <b>22</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Comments: High pedestrian traffic because of school release

# Old Colony Planning Council

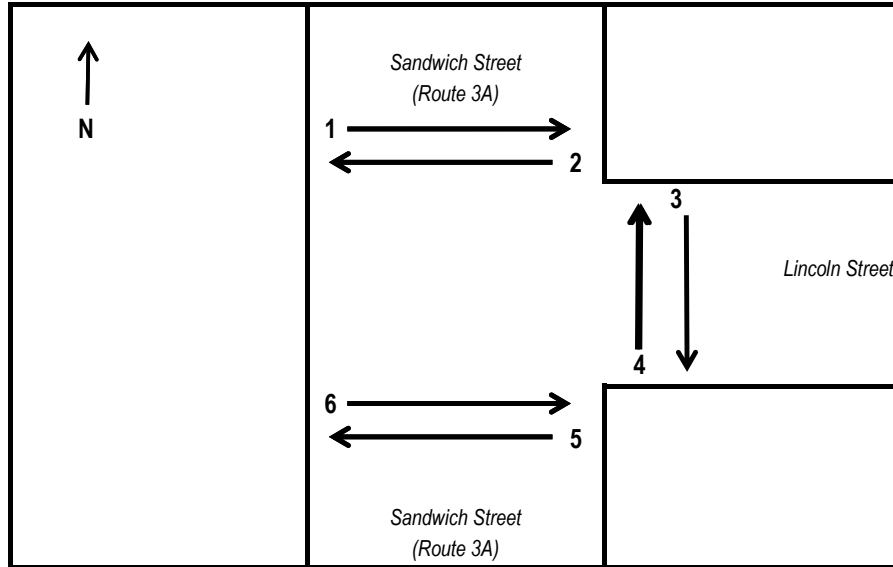
## Intersection Bicycle Directional Counting Field Sheet

Community: Plymouth

Street: Sandwich Street (Route 3A)

Location: @ Lincoln Street

Weather: Clear Board #: DB-400 (6) Staff: AV Date: 5/3/2011



| Interval          |              | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        |
|-------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3:00 PM - 3:15 PM | Bikes        |          |          |          |          |          |          |          |          |
| 3:15 PM - 3:30 PM | Bikes        |          |          |          | 1        |          |          |          |          |
| 3:30 PM - 3:45 PM | Bikes        |          |          |          |          |          |          |          |          |
| 3:45 PM - 4:00 PM | Bikes        |          |          | 1        |          |          |          |          |          |
| 4:00 PM - 4:15 PM | Bikes        |          |          |          | 1        |          |          |          |          |
| 4:15 PM - 4:30 PM | Bikes        |          |          |          |          |          |          |          |          |
| 4:30 PM - 4:45 PM | Bikes        |          |          |          | 2        |          |          |          |          |
| 4:45 PM - 5:00 PM | Bikes        |          |          |          |          |          |          |          |          |
| 5:00 PM - 5:15 PM | Bikes        |          |          |          |          |          |          |          |          |
| 5:15 PM - 5:30 PM | Bikes        |          |          |          | 1        |          |          |          |          |
| 5:30 PM - 5:45 PM | Bikes        |          |          |          | 2        |          |          |          |          |
| 5:45 PM - 6:00 PM | Bikes        |          |          |          |          |          |          |          |          |
| <b>Total</b>      | <b>Bikes</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>7</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Comments:

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Old Colony Planning Council  
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Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (4) / AV  
 Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_AM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 1

Groups Printed- 3 - FHWA 4 - 13

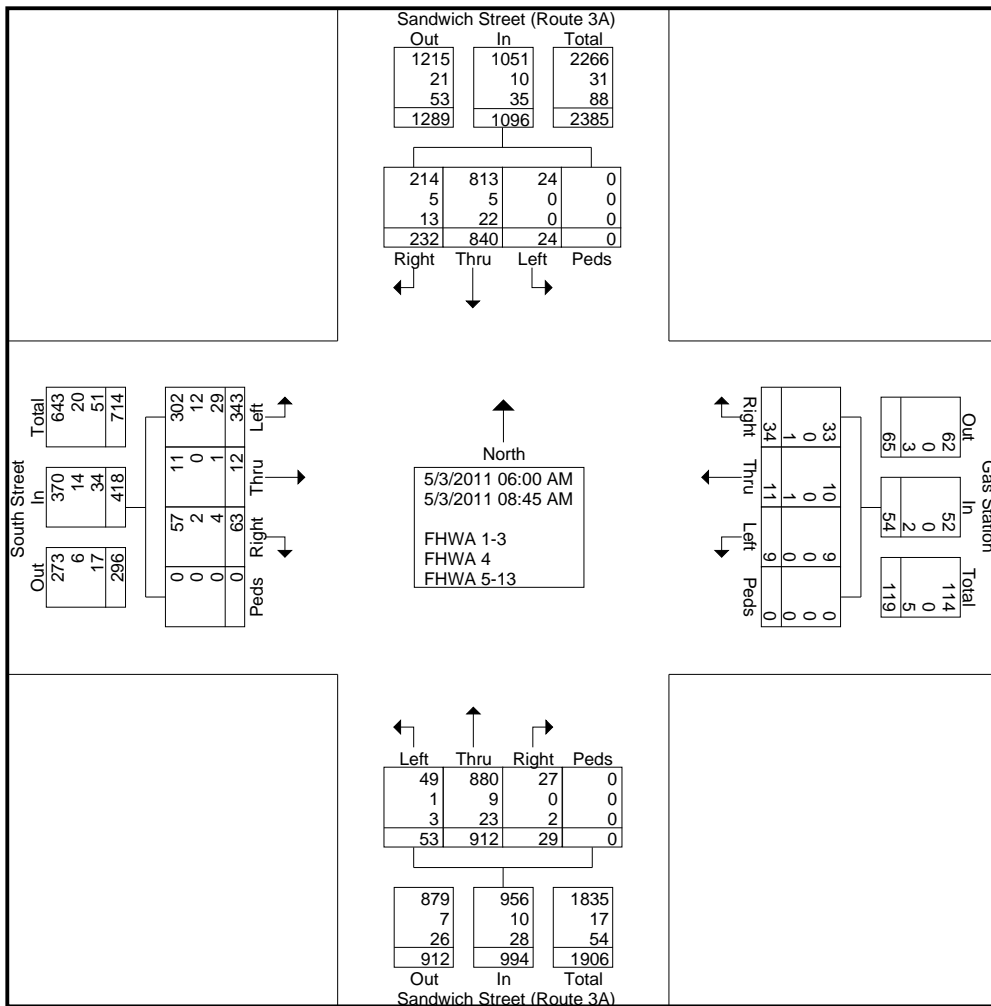
| Start Time  | Sandwich Street (Route 3A)<br>Southbound |      |       |      |            | Gas Station<br>Westbound |      |       |      |            | Sandwich Street (Route 3A)<br>Northbound |      |       |      |            | South Street<br>Eastbound |      |       |      |            | Int. Total |
|-------------|--|------|-------|------|------------|--------------------------|------|-------|------|------------|--|------|-------|------|------------|---------------------------|------|-------|------|------------|------------|
|             | Left                                     | Thru | Right | Peds | App. Total | Left                     | Thru | Right | Peds | App. Total | Left                                     | Thru | Right | Peds | App. Total | Left                      | Thru | Right | Peds | App. Total |            |
| Factor      | 1.0                                      | 1.0  | 1.0   | 1.0  |            | 1.0                      | 1.0  | 1.0   | 1.0  |            | 1.0                                      | 1.0  | 1.0   | 1.0  |            | 1.0                       | 1.0  | 1.0   | 1.0  |            |            |
| 06:00 AM    | 0  | 22   | 10    | 0    | 32         | 1                        | 0    | 0     | 0    | 1          | 0  | 25   | 1     | 0    | 26         | 8                         | 1    | 2     | 0    | 11         | 70         |
| 06:15 AM    | 1  | 33   | 8     | 0    | 42         | 0                        | 0    | 0     | 0    | 0          | 3  | 34   | 1     | 0    | 38         | 14                        | 1    | 3     | 0    | 18         | 98         |
| 06:30 AM    | 1  | 52   | 9     | 0    | 62         | 1                        | 0    | 4     | 0    | 5          | 4  | 33   | 2     | 0    | 39         | 17                        | 1    | 4     | 0    | 22         | 128        |
| 06:45 AM    | 0  | 83   | 18    | 0    | 101        | 0                        | 2    | 1     | 0    | 3          | 4  | 58   | 0     | 0    | 62         | 21                        | 2    | 5     | 0    | 28         | 194        |
| Total       | 2  | 190  | 45    | 0    | 237        | 2                        | 2    | 5     | 0    | 9          | 11                                       | 150  | 4     | 0    | 165        | 60                        | 5    | 14    | 0    | 79         | 490        |
| 07:00 AM    | 1  | 125  | 20    | 0    | 146        | 0                        | 0    | 1     | 0    | 1          | 1  | 78   | 1     | 0    | 80         | 24                        | 0    | 5     | 0    | 29         | 256        |
| 07:15 AM    | 4  | 84   | 22    | 0    | 110        | 0                        | 2    | 7     | 0    | 9          | 3  | 86   | 6     | 0    | 95         | 31                        | 1    | 5     | 0    | 37         | 251        |
| 07:30 AM    | 3  | 59   | 13    | 0    | 75         | 2                        | 1    | 7     | 0    | 10         | 6  | 102  | 4     | 0    | 112        | 32                        | 1    | 7     | 0    | 40         | 237        |
| 07:45 AM    | 2  | 75   | 22    | 0    | 99         | 0                        | 1    | 3     | 0    | 4          | 6  | 106  | 2     | 0    | 114        | 37                        | 1    | 4     | 0    | 42         | 259        |
| Total       | 10                                       | 343  | 77    | 0    | 430        | 2                        | 4    | 18    | 0    | 24         | 16                                       | 372  | 13    | 0    | 401        | 124                       | 3    | 21    | 0    | 148        | 1003       |
| 08:00 AM    | 1  | 89   | 26    | 0    | 116        | 0                        | 1    | 2     | 0    | 3          | 7  | 94   | 2     | 0    | 103        | 45                        | 0    | 8     | 0    | 53         | 275        |
| 08:15 AM    | 6  | 72   | 20    | 0    | 98         | 1                        | 1    | 4     | 0    | 6          | 6  | 98   | 3     | 0    | 107        | 39                        | 0    | 4     | 0    | 43         | 254        |
| 08:30 AM    | 0  | 56   | 21    | 0    | 77         | 2                        | 0    | 2     | 0    | 4          | 2  | 89   | 4     | 0    | 95         | 32                        | 2    | 9     | 0    | 43         | 219        |
| 08:45 AM    | 5  | 90   | 43    | 0    | 138        | 2                        | 3    | 3     | 0    | 8          | 11                                       | 109  | 3     | 0    | 123        | 43                        | 2    | 7     | 0    | 52         | 321        |
| Total       | 12                                       | 307  | 110   | 0    | 429        | 5                        | 5    | 11    | 0    | 21         | 26                                       | 390  | 12    | 0    | 428        | 159                       | 4    | 28    | 0    | 191        | 1069       |
| Grand Total | 24                                       | 840  | 232   | 0    | 1096       | 9                        | 11   | 34    | 0    | 54         | 53                                       | 912  | 29    | 0    | 994        | 343                       | 12   | 63    | 0    | 418        | 2562       |
| Apprch %    | 2.2                                      | 76.6 | 21.2  | 0    |            | 16.7                     | 20.4 | 63    | 0    |            | 5.3                                      | 91.8 | 2.9   | 0    |            | 82.1                      | 2.9  | 15.1  | 0    |            |            |
| Total %     | 0.9                                      | 32.8 | 9.1   | 0    | 42.8       | 0.4                      | 0.4  | 1.3   | 0    | 2.1        | 2.1                                      | 35.6 | 1.1   | 0    | 38.8       | 13.4                      | 0.5  | 2.5   | 0    | 16.3       |            |
| FHWA 1-3    | 24                                       | 813  | 214   | 0    | 1051       | 9                        | 10   | 33    | 0    | 52         | 49                                       | 880  | 27    | 0    | 956        | 302                       | 11   | 57    | 0    | 370        | 2429       |
| % FHWA 1-3  | 100                                      | 96.8 | 92.2  | 0    | 95.9       | 100                      | 90.9 | 97.1  | 0    | 96.3       | 92.5                                     | 96.5 | 93.1  | 0    | 96.2       | 88                        | 91.7 | 90.5  | 0    | 88.5       | 94.8       |
| FHWA 4      | 0  | 5    | 5     | 0    | 10         | 0                        | 0    | 0     | 0    | 0          | 1  | 9    | 0     | 0    | 10         | 12                        | 0    | 2     | 0    | 14         | 34         |
| % FHWA 4    | 0  | 0.6  | 2.2   | 0    | 0.9        | 0                        | 0    | 0     | 0    | 0          | 1.9                                      | 1    | 0     | 0    | 1          | 3.5                       | 0    | 3.2   | 0    | 3.3        | 1.3        |
| FHWA 5-13   | 0  | 22   | 13    | 0    | 35         | 0                        | 1    | 1     | 0    | 2          | 3  | 23   | 2     | 0    | 28         | 29                        | 1    | 4     | 0    | 34         | 99         |
| % FHWA 5-13 | 0  | 2.6  | 5.6   | 0    | 3.2        | 0                        | 9.1  | 2.9   | 0    | 3.7        | 5.7                                      | 2.5  | 6.9   | 0    | 2.8        | 8.5                       | 8.3  | 6.3   | 0    | 8.1        | 3.9        |



Old Colony Planning Council  
 70 School Street  
 Brockton, MA 02301  
 508-583-1833  
 www.ocpcrpa.org

Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (4) / AV  
 Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_AM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 2

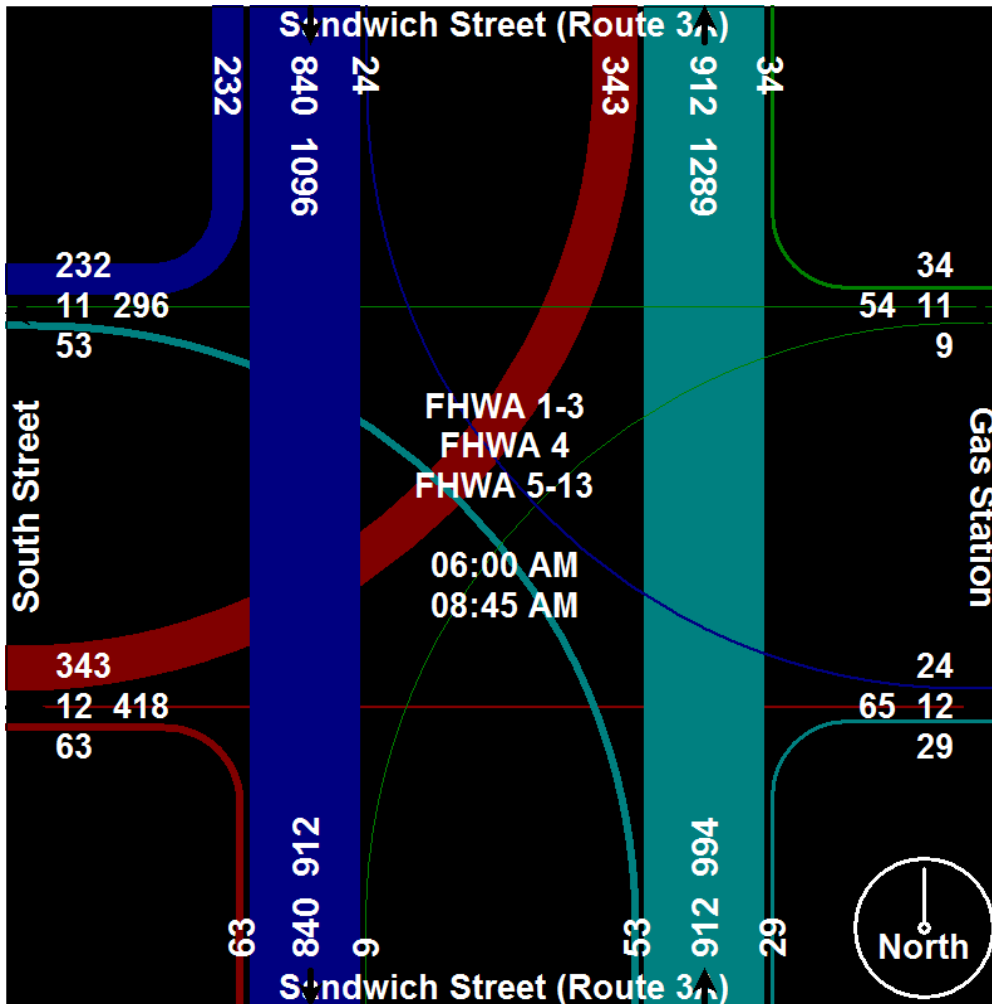




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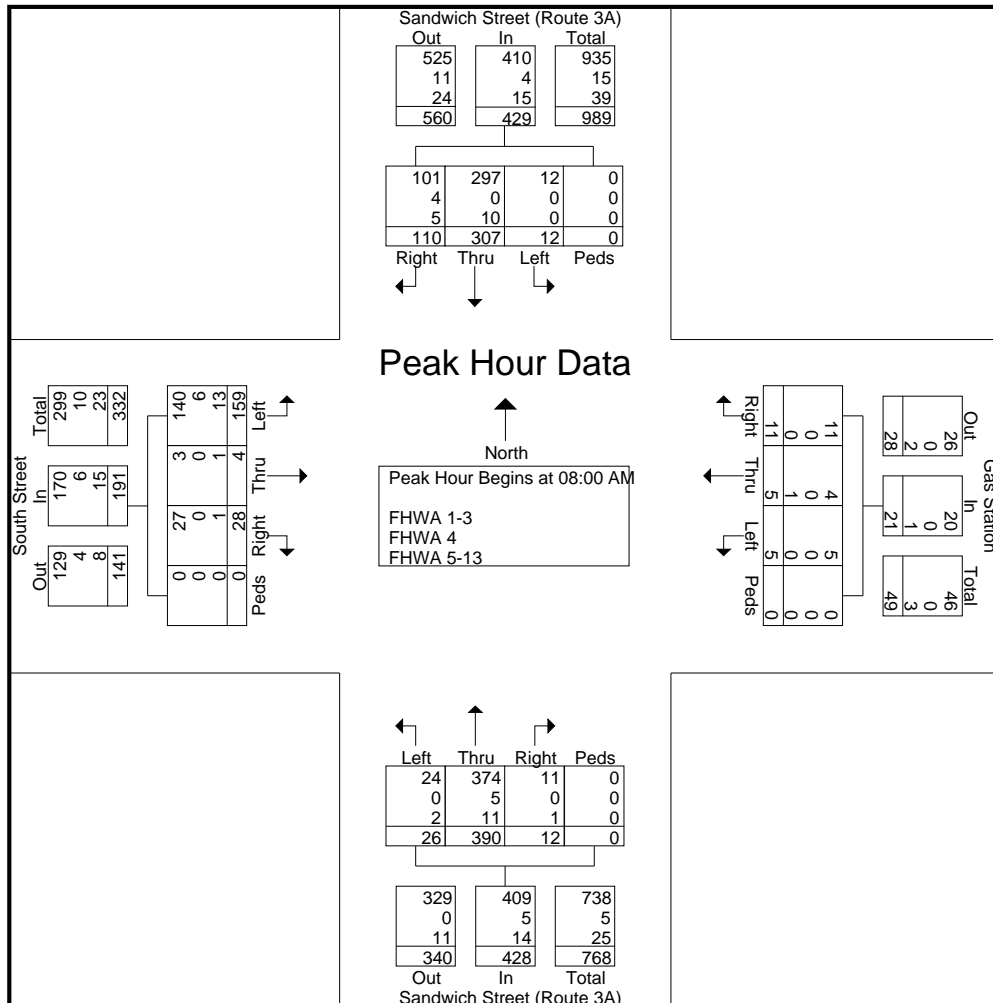


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File Name : 239\_Sandwich(3A)&South\_AM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 4

| Start Time   | Sandwich Street (Route 3A) Southbound |      |       |      |            | Gas Station Westbound |      |       |      |            | Sandwich Street (Route 3A) Northbound |      |       |      |            | South Street Eastbound |      |       |      |            | Int. Total |     |
|--|---------------------------------------|------|-------|------|------------|-----------------------|------|-------|------|------------|---------------------------------------|------|-------|------|------------|------------------------|------|-------|------|------------|------------|-----|
|  | Left                                  | Thru | Right | Peds | App. Total | Left                  | Thru | Right | Peds | App. Total | Left                                  | Thru | Right | Peds | App. Total | Left                   | Thru | Right | Peds | App. Total |            |     |
| Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1 |                                       |      |       |      |            |                       |      |       |      |            |                                       |      |       |      |            |                        |      |       |      |            |            |     |
| Peak Hour for Entire Intersection Begins at 08:00 AM       |                                       |      |       |      |            |                       |      |       |      |            |                                       |      |       |      |            |                        |      |       |      |            |            |     |
| 08:00 AM   | 1                                     | 89   | 26    | 0    | 116        | 0                     | 1    | 2     | 0    | 3          | 7                                     | 94   | 2     | 0    | 103        | 45                     | 0    | 8     | 0    | 53         | 275        |     |
| 08:15 AM   | 6                                     | 72   | 20    | 0    | 98         | 1                     | 1    | 4     | 0    | 6          | 6                                     | 98   | 3     | 0    | 107        | 39                     | 0    | 4     | 0    | 43         | 254        |     |
| 08:30 AM   | 0                                     | 56   | 21    | 0    | 77         | 2                     | 0    | 2     | 0    | 4          | 2                                     | 89   | 4     | 0    | 95         | 32                     | 2    | 9     | 0    | 43         | 219        |     |
| 08:45 AM   | 5                                     | 90   | 43    | 0    | 138        | 2                     | 3    | 3     | 0    | 8          | 11                                    | 109  | 3     | 0    | 123        | 43                     | 2    | 7     | 0    | 52         | 321        |     |
| Total Volume   | 12                                    | 307  | 110   | 0    | 429        | 5                     | 5    | 11    | 0    | 21         | 26                                    | 390  | 12    | 0    | 428        | 159                    | 4    | 28    | 0    | 191        | 1069       |     |
| % App. Total   | 2.8                                   | 71.6 | 25.6  | 0    |            | 23.8                  | 23.8 | 52.4  | 0    |            | 6.1                                   | 91.1 | 2.8   | 0    |            | 83.2                   | 2.1  | 14.7  | 0    |            |            |     |
| PHF  | .500                                  | .853 | .640  | .000 | .777       | .625                  | .417 | .688  | .000 | .656       | .591                                  | .894 | .750  | .000 | .870       | .883                   | .500 | .778  | .000 | .901       | .833       |     |
| FHWA 1-3   | 12                                    | 297  | 101   | 0    | 410        | 5                     | 4    | 11    | 0    | 20         | 24                                    | 374  | 11    | 0    | 409        | 140                    | 3    | 27    | 0    | 170        | 1009       |     |
| % FHWA 1-3   | 100                                   | 96.7 | 91.8  | 0    | 95.6       | 100                   | 80.0 | 100   | 0    | 95.2       | 92.3                                  | 95.9 | 91.7  | 0    | 95.6       | 88.1                   | 75.0 | 96.4  | 0    | 89.0       | 94.4       |     |
| FHWA 4   | 0                                     | 0    | 4     | 0    | 4          | 0                     | 0    | 0     | 0    | 0          | 0                                     | 5    | 0     | 0    | 5          | 6                      | 0    | 0     | 0    | 0          | 6          | 15  |
| % FHWA 4   | 0                                     | 0    | 3.6   | 0    | 0.9        | 0                     | 0    | 0     | 0    | 0          | 0                                     | 1.3  | 0     | 0    | 1.2        | 3.8                    | 0    | 0     | 0    | 0          | 3.1        | 1.4 |
| FHWA 5-13  | 0                                     | 10   | 5     | 0    | 15         | 0                     | 1    | 0     | 0    | 1          | 2                                     | 11   | 1     | 0    | 14         | 13                     | 1    | 1     | 0    | 15         | 45         |     |
| % FHWA 5-13  | 0                                     | 3.3  | 4.5   | 0    | 3.5        | 0                     | 20.0 | 0     | 0    | 4.8        | 7.7                                   | 2.8  | 8.3   | 0    | 3.3        | 8.2                    | 25.0 | 3.6   | 0    | 7.9        | 4.2        |     |

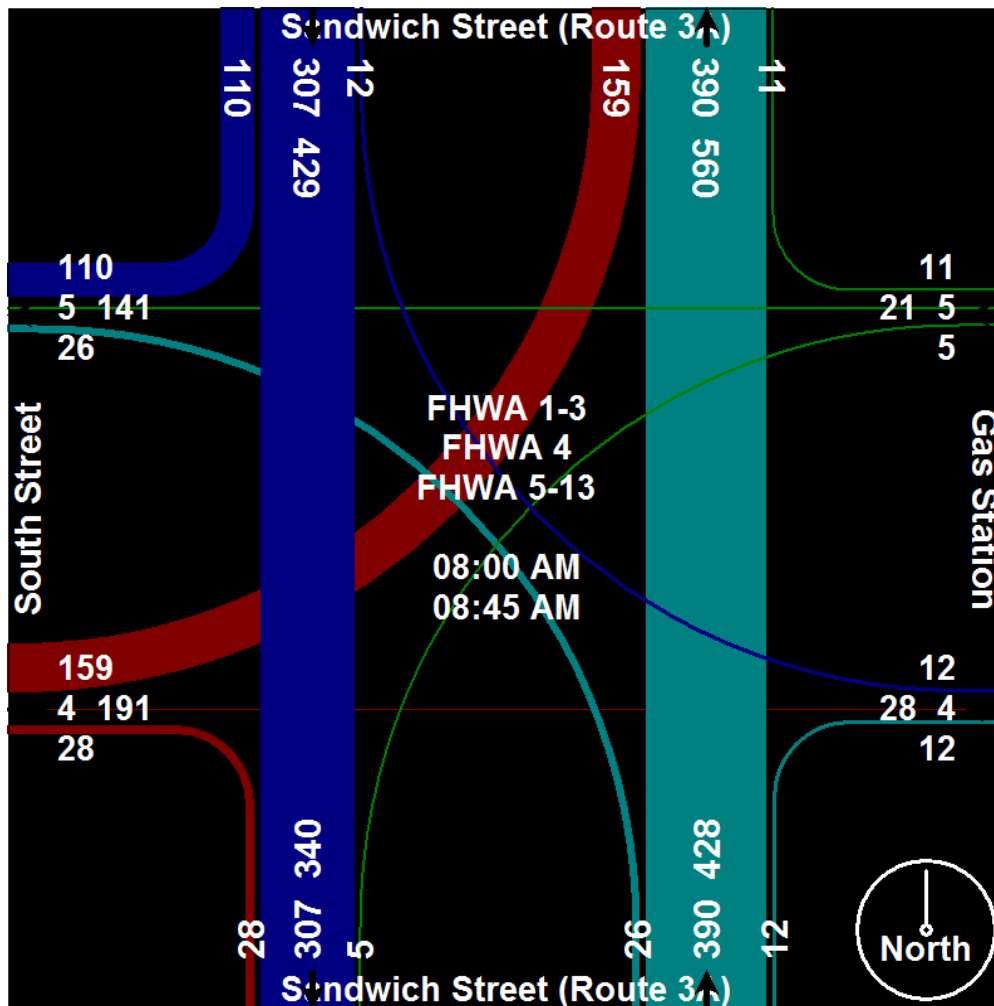




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Community: Plymouth  
Weather: Clear  
Board # & Staff: DB-400 (4) / AV  
Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_AM  
Site Code : 239  
Start Date : 5/3/2011  
Page No : 5





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Weather: Clear  
Board # & Staff: DB-400 (4) / AV  
Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_AM  
Site Code : 239  
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Page No : 6

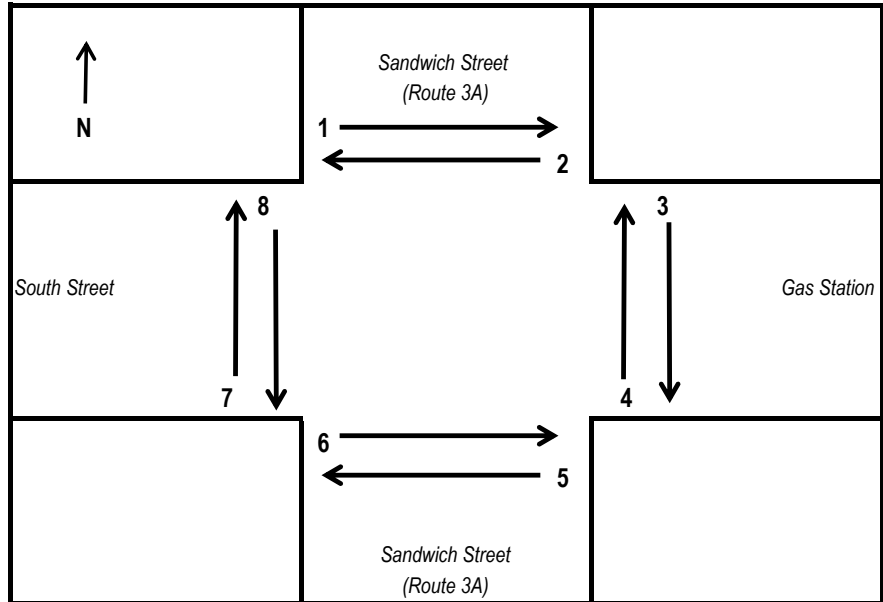
Image 1



# Old Colony Planning Council

## Intersection Pedestrian Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ South Street  
**Weather:** Clear      **Board #:** DB-400 (4)      **Staff:** AV      **Date:** 5/3/2011



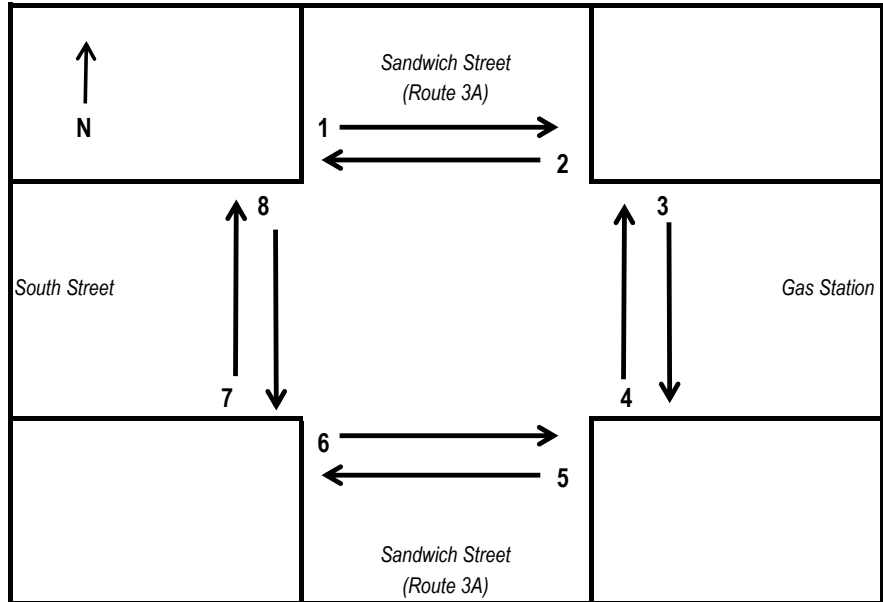
| Interval          |             | 1        | 2        | 3        | 4         | 5        | 6        | 7        | 8        |
|-------------------|-------------|----------|----------|----------|-----------|----------|----------|----------|----------|
| 6:00 AM - 6:15 AM | Peds        |          |          |          | 2         |          |          | 1        |          |
| 6:15 AM - 6:30 AM | Peds        |          |          |          |           |          |          |          |          |
| 6:30 AM - 6:45 AM | Peds        | 4        |          | 1        | 1         |          |          |          | 1        |
| 6:45 AM - 7:00 AM | Peds        |          | 1        |          | 1         |          | 2        | 4        |          |
| 7:00 AM - 7:15 AM | Peds        |          |          |          | 1         |          |          |          |          |
| 7:15 AM - 7:30 AM | Peds        |          |          |          | 2         |          |          | 1        |          |
| 7:30 AM - 7:45 AM | Peds        | 1        |          |          |           |          |          |          | 1        |
| 7:45 AM - 8:00 AM | Peds        |          | 1        |          | 2         |          |          | 2        | 1        |
| 8:00 AM - 8:15 AM | Peds        |          |          |          |           |          |          |          |          |
| 8:15 AM - 8:30 AM | Peds        |          |          |          |           |          |          |          |          |
| 8:30 AM - 8:45 AM | Peds        |          |          |          | 3         |          |          |          |          |
| 8:45 AM - 9:00 AM | Peds        | 3        |          |          | 3         |          |          |          |          |
| <b>Total</b>      | <b>Peds</b> | <b>8</b> | <b>2</b> | <b>1</b> | <b>15</b> | <b>0</b> | <b>2</b> | <b>8</b> | <b>3</b> |

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# Old Colony Planning Council

## Intersection Bicycle Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ South Street  
**Weather:** Clear      **Board #:** DB-400 (4)      **Staff:** AV      **Date:** 5/3/2011



| Interval          |              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|--------------|---|---|---|---|---|---|---|---|
| 6:00 AM - 6:15 AM | Bikes        |   |   |   |   |   |   |   |   |
| 6:15 AM - 6:30 AM | Bikes        |   |   |   | 1 |   |   |   |   |
| 6:30 AM - 6:45 AM | Bikes        | 1 |   | 1 |   |   |   |   |   |
| 6:45 AM - 7:00 AM | Bikes        |   |   |   |   |   |   |   |   |
| 7:00 AM - 7:15 AM | Bikes        |   |   |   |   |   |   |   |   |
| 7:15 AM - 7:30 AM | Bikes        |   |   |   |   |   |   |   |   |
| 7:30 AM - 7:45 AM | Bikes        |   |   |   |   |   |   |   |   |
| 7:45 AM - 8:00 AM | Bikes        |   |   |   |   |   |   |   |   |
| 8:00 AM - 8:15 AM | Bikes        |   |   |   |   |   |   |   |   |
| 8:15 AM - 8:30 AM | Bikes        |   |   |   |   |   |   |   |   |
| 8:30 AM - 8:45 AM | Bikes        |   |   |   |   |   |   |   |   |
| 8:45 AM - 9:00 AM | Bikes        |   |   |   |   |   |   |   |   |
| <b>Total</b>      | <b>Bikes</b> | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |

Comments:

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Old Colony Planning Council  
 70 School Street  
 Brockton, MA 02301  
 508-583-1833  
[www.ocpcrpa.org](http://www.ocpcrpa.org)

Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (3) / JC  
 Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_PM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 1

Groups Printed- 3 - FHWA 4 - 13

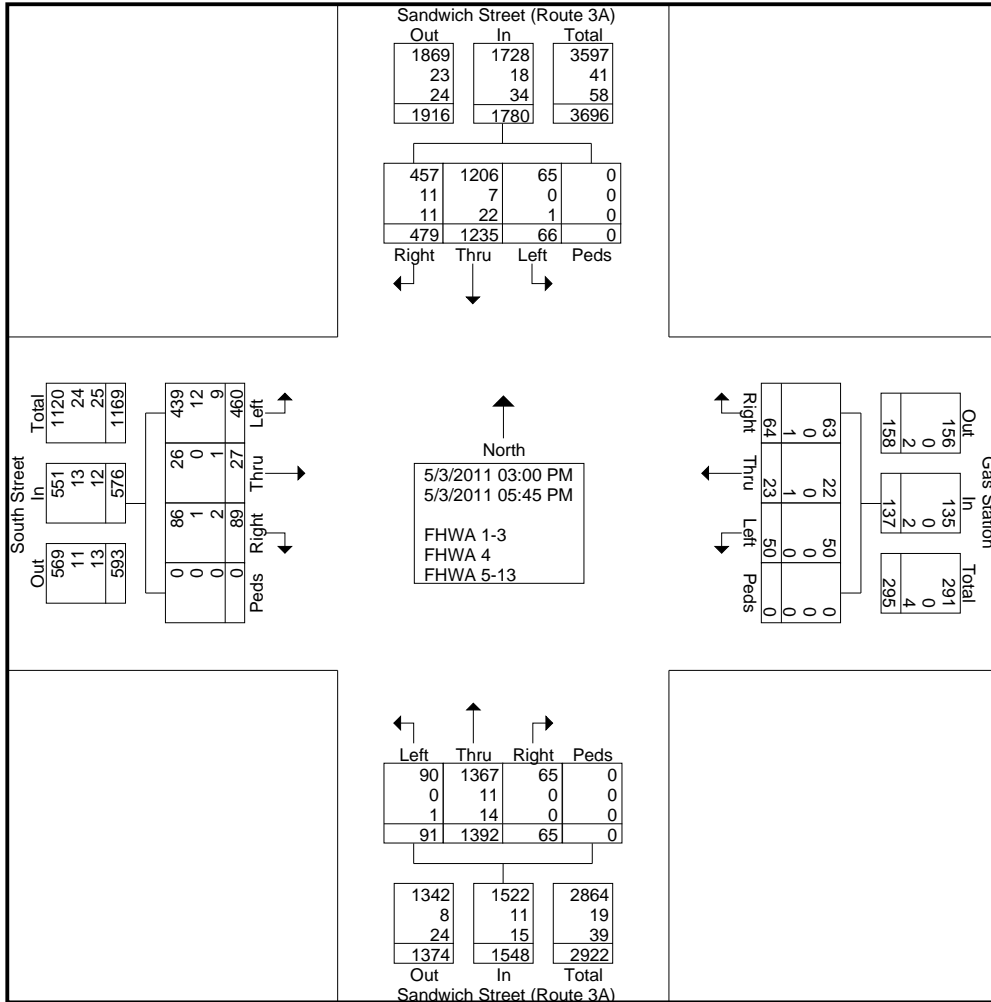
| Start Time  | Sandwich Street (Route 3A)<br>Southbound |      |       |      |            | Gas Station<br>Westbound |      |       |      |            | Sandwich Street (Route 3A)<br>Northbound |      |       |      |            | South Street<br>Eastbound |      |       |      |            | Int. Total |
|-------------|--|------|-------|------|------------|--------------------------|------|-------|------|------------|--|------|-------|------|------------|---------------------------|------|-------|------|------------|------------|
|             | Left                                     | Thru | Right | Peds | App. Total | Left                     | Thru | Right | Peds | App. Total | Left                                     | Thru | Right | Peds | App. Total | Left                      | Thru | Right | Peds | App. Total |            |
| 03:00 PM    | 8  | 96   | 24    | 0    | 128        | 4                        | 4    | 2     | 0    | 10         | 5  | 108  | 7     | 0    | 120        | 48                        | 2    | 7     | 0    | 57         | 315        |
| 03:15 PM    | 6  | 101  | 52    | 0    | 159        | 3                        | 2    | 6     | 0    | 11         | 10                                       | 109  | 6     | 0    | 125        | 40                        | 1    | 9     | 0    | 50         | 345        |
| 03:30 PM    | 7  | 96   | 47    | 0    | 150        | 4                        | 0    | 6     | 0    | 10         | 6  | 131  | 6     | 0    | 143        | 32                        | 1    | 9     | 0    | 42         | 345        |
| 03:45 PM    | 8  | 80   | 50    | 0    | 138        | 1                        | 5    | 7     | 0    | 13         | 10                                       | 127  | 3     | 0    | 140        | 32                        | 3    | 12    | 0    | 47         | 338        |
| Total       | 29                                       | 373  | 173   | 0    | 575        | 12                       | 11   | 21    | 0    | 44         | 31                                       | 475  | 22    | 0    | 528        | 152                       | 7    | 37    | 0    | 196        | 1343       |
| 04:00 PM    | 3  | 111  | 40    | 0    | 154        | 5                        | 3    | 5     | 0    | 13         | 7  | 139  | 6     | 0    | 152        | 50                        | 2    | 6     | 0    | 58         | 377        |
| 04:15 PM    | 2  | 107  | 47    | 0    | 156        | 2                        | 0    | 2     | 0    | 4          | 14                                       | 107  | 2     | 0    | 123        | 34                        | 0    | 8     | 0    | 42         | 325        |
| 04:30 PM    | 10                                       | 99   | 29    | 0    | 138        | 4                        | 3    | 5     | 0    | 12         | 5  | 124  | 6     | 0    | 135        | 30                        | 2    | 13    | 0    | 45         | 330        |
| 04:45 PM    | 4  | 94   | 36    | 0    | 134        | 7                        | 2    | 8     | 0    | 17         | 5  | 100  | 8     | 0    | 113        | 49                        | 2    | 8     | 0    | 59         | 323        |
| Total       | 19                                       | 411  | 152   | 0    | 582        | 18                       | 8    | 20    | 0    | 46         | 31                                       | 470  | 22    | 0    | 523        | 163                       | 6    | 35    | 0    | 204        | 1355       |
| 05:00 PM    | 5  | 128  | 51    | 0    | 184        | 4                        | 3    | 4     | 0    | 11         | 8  | 108  | 7     | 0    | 123        | 34                        | 1    | 7     | 0    | 42         | 360        |
| 05:15 PM    | 6  | 120  | 44    | 0    | 170        | 7                        | 0    | 6     | 0    | 13         | 6  | 107  | 1     | 0    | 114        | 44                        | 4    | 8     | 0    | 56         | 353        |
| 05:30 PM    | 6  | 102  | 33    | 0    | 141        | 7                        | 1    | 6     | 0    | 14         | 6  | 107  | 8     | 0    | 121        | 38                        | 5    | 2     | 0    | 45         | 321        |
| 05:45 PM    | 1  | 101  | 26    | 0    | 128        | 2                        | 0    | 7     | 0    | 9          | 9  | 125  | 5     | 0    | 139        | 29                        | 4    | 0     | 0    | 33         | 309        |
| Total       | 18                                       | 451  | 154   | 0    | 623        | 20                       | 4    | 23    | 0    | 47         | 29                                       | 447  | 21    | 0    | 497        | 145                       | 14   | 17    | 0    | 176        | 1343       |
| Grand Total | 66                                       | 1235 | 479   | 0    | 1780       | 50                       | 23   | 64    | 0    | 137        | 91                                       | 1392 | 65    | 0    | 1548       | 460                       | 27   | 89    | 0    | 576        | 4041       |
| Apprch %    | 3.7                                      | 69.4 | 26.9  | 0    |            | 36.5                     | 16.8 | 46.7  | 0    |            | 5.9                                      | 89.9 | 4.2   | 0    |            | 79.9                      | 4.7  | 15.5  | 0    |            |            |
| Total %     | 1.6                                      | 30.6 | 11.9  | 0    | 44         | 1.2                      | 0.6  | 1.6   | 0    | 3.4        | 2.3                                      | 34.4 | 1.6   | 0    | 38.3       | 11.4                      | 0.7  | 2.2   | 0    | 14.3       |            |
| FHWA 1-3    | 65                                       | 1206 | 457   | 0    | 1728       | 50                       | 22   | 63    | 0    | 135        | 90                                       | 1367 | 65    | 0    | 1522       | 439                       | 26   | 86    | 0    | 551        | 3936       |
| % FHWA 1-3  | 98.5                                     | 97.7 | 95.4  | 0    | 97.1       | 100                      | 95.7 | 98.4  | 0    | 98.5       | 98.9                                     | 98.2 | 100   | 0    | 98.3       | 95.4                      | 96.3 | 96.6  | 0    | 95.7       | 97.4       |
| FHWA 4      | 0  | 7    | 11    | 0    | 18         | 0                        | 0    | 0     | 0    | 0          | 0  | 11   | 0     | 0    | 11         | 12                        | 0    | 1     | 0    | 13         | 42         |
| % FHWA 4    | 0  | 0.6  | 2.3   | 0    | 1          | 0                        | 0    | 0     | 0    | 0          | 0  | 0.8  | 0     | 0    | 0.7        | 2.6                       | 0    | 1.1   | 0    | 2.3        | 1          |
| FHWA 5-13   | 1  | 22   | 11    | 0    | 34         | 0                        | 1    | 1     | 0    | 2          | 1  | 14   | 0     | 0    | 15         | 9                         | 1    | 2     | 0    | 12         | 63         |
| % FHWA 5-13 | 1.5                                      | 1.8  | 2.3   | 0    | 1.9        | 0                        | 4.3  | 1.6   | 0    | 1.5        | 1.1                                      | 1    | 0     | 0    | 1          | 2                         | 3.7  | 2.2   | 0    | 2.1        | 1.6        |



Old Colony Planning Council  
 70 School Street  
 Brockton, MA 02301  
 508-583-1833  
 www.ocpcrpa.org

Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (3) / JC  
 Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_PM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 2

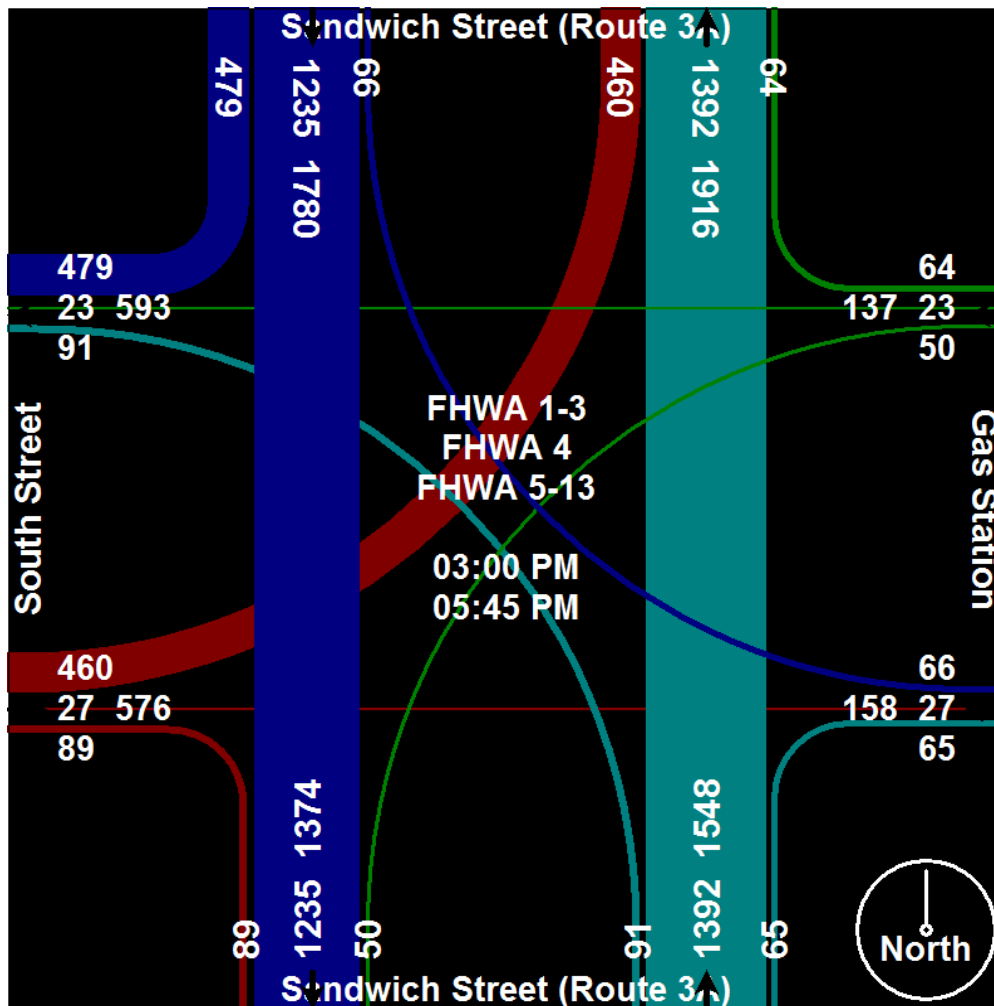




Old Colony Planning Council  
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Community: Plymouth  
Weather: Clear  
Board # & Staff: DB-400 (3) / JC  
Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_PM  
Site Code : 239  
Start Date : 5/3/2011  
Page No : 3





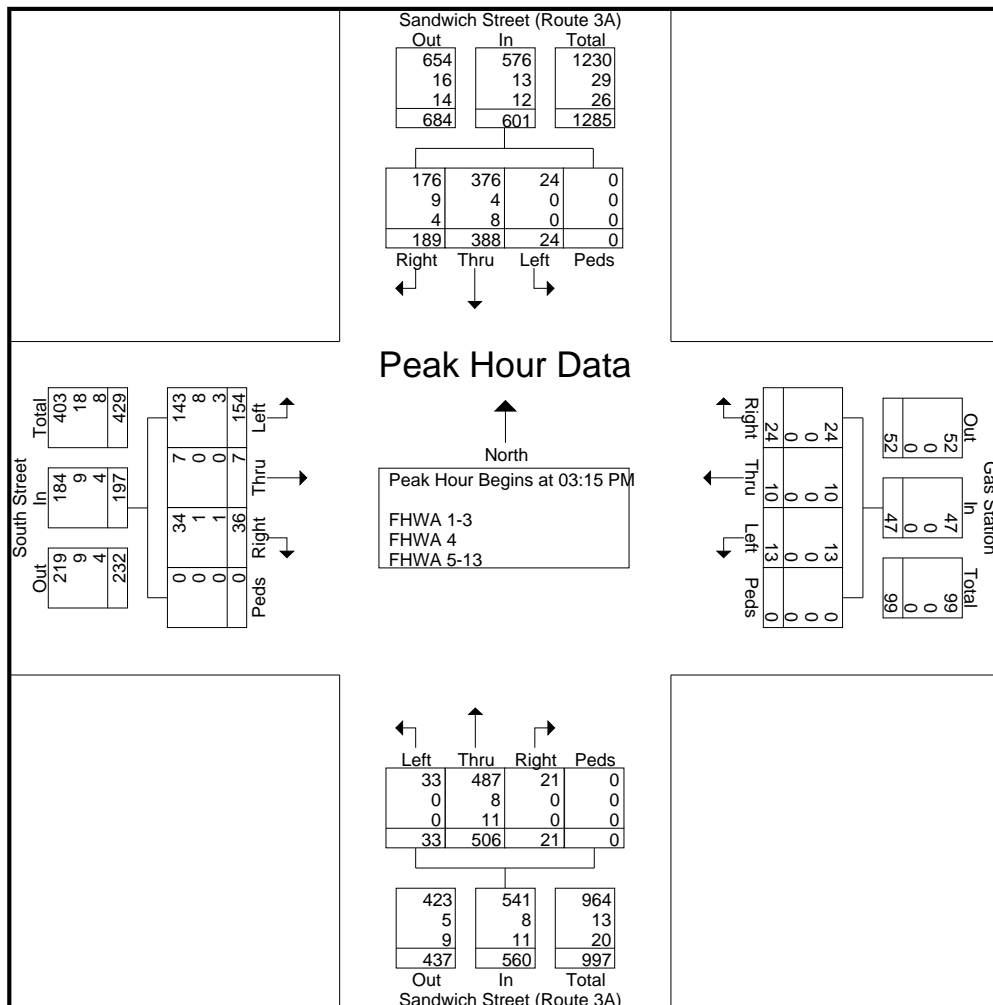


Old Colony Planning Council  
 70 School Street  
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 508-583-1833  
 www.ocpcrpa.org

Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (3) / JC  
 Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_PM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 4

| Start Time   | Sandwich Street (Route 3A) Southbound |      |       |      |            | Gas Station Westbound |      |       |      |            | Sandwich Street (Route 3A) Northbound |      |       |      |            | South Street Eastbound |      |       |      |            | Int. Total |     |
|--|---------------------------------------|------|-------|------|------------|-----------------------|------|-------|------|------------|---------------------------------------|------|-------|------|------------|------------------------|------|-------|------|------------|------------|-----|
|  | Left                                  | Thru | Right | Peds | App. Total | Left                  | Thru | Right | Peds | App. Total | Left                                  | Thru | Right | Peds | App. Total | Left                   | Thru | Right | Peds | App. Total |            |     |
| Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1 |                                       |      |       |      |            |                       |      |       |      |            |                                       |      |       |      |            |                        |      |       |      |            |            |     |
| Peak Hour for Entire Intersection Begins at 03:15 PM       |                                       |      |       |      |            |                       |      |       |      |            |                                       |      |       |      |            |                        |      |       |      |            |            |     |
| 03:15 PM   | 6                                     | 101  | 52    | 0    | 159        | 3                     | 2    | 6     | 0    | 11         | 10                                    | 109  | 6     | 0    | 125        | 40                     | 1    | 9     | 0    | 50         | 345        |     |
| 03:30 PM   | 7                                     | 96   | 47    | 0    | 150        | 4                     | 0    | 6     | 0    | 10         | 6                                     | 131  | 6     | 0    | 143        | 32                     | 1    | 9     | 0    | 42         | 345        |     |
| 03:45 PM   | 8                                     | 80   | 50    | 0    | 138        | 1                     | 5    | 7     | 0    | 13         | 10                                    | 127  | 3     | 0    | 140        | 32                     | 3    | 12    | 0    | 47         | 338        |     |
| 04:00 PM   | 3                                     | 111  | 40    | 0    | 154        | 5                     | 3    | 5     | 0    | 13         | 7                                     | 139  | 6     | 0    | 152        | 50                     | 2    | 6     | 0    | 58         | 377        |     |
| Total Volume   | 24                                    | 388  | 189   | 0    | 601        | 13                    | 10   | 24    | 0    | 47         | 33                                    | 506  | 21    | 0    | 560        | 154                    | 7    | 36    | 0    | 197        | 1405       |     |
| % App. Total   | 4                                     | 64.6 | 31.4  | 0    |            | 27.7                  | 21.3 | 51.1  | 0    |            | 5.9                                   | 90.4 | 3.8   | 0    |            | 78.2                   | 3.6  | 18.3  | 0    |            |            |     |
| PHF  | .750                                  | .874 | .909  | .000 | .945       | .650                  | .500 | .857  | .000 | .904       | .825                                  | .910 | .875  | .000 | .921       | .770                   | .583 | .750  | .000 | .849       | .932       |     |
| FHWA 1-3   | 24                                    | 376  | 176   | 0    | 576        | 13                    | 10   | 24    | 0    | 47         | 33                                    | 487  | 21    | 0    | 541        | 143                    | 7    | 34    | 0    | 184        | 1348       |     |
| % FHWA 1-3   | 100                                   | 96.9 | 93.1  | 0    | 95.8       | 100                   | 100  | 100   | 0    | 100        | 100                                   | 96.2 | 100   | 0    | 96.6       | 92.9                   | 100  | 94.4  | 0    | 93.4       | 95.9       |     |
| FHWA 4   | 0                                     | 4    | 9     | 0    | 13         | 0                     | 0    | 0     | 0    | 0          | 0                                     | 8    | 0     | 0    | 8          | 8                      | 0    | 1     | 0    | 0          | 9          | 30  |
| % FHWA 4   | 0                                     | 1.0  | 4.8   | 0    | 2.2        | 0                     | 0    | 0     | 0    | 0          | 0                                     | 1.6  | 0     | 0    | 1.4        | 5.2                    | 0    | 2.8   | 0    | 0          | 4.6        | 2.1 |
| FHWA 5-13  | 0                                     | 8    | 4     | 0    | 12         | 0                     | 0    | 0     | 0    | 0          | 0                                     | 11   | 0     | 0    | 11         | 3                      | 0    | 1     | 0    | 0          | 4          | 27  |
| % FHWA 5-13  | 0                                     | 2.1  | 2.1   | 0    | 2.0        | 0                     | 0    | 0     | 0    | 0          | 0                                     | 2.2  | 0     | 0    | 2.0        | 1.9                    | 0    | 2.8   | 0    | 2.0        | 1.9        |     |

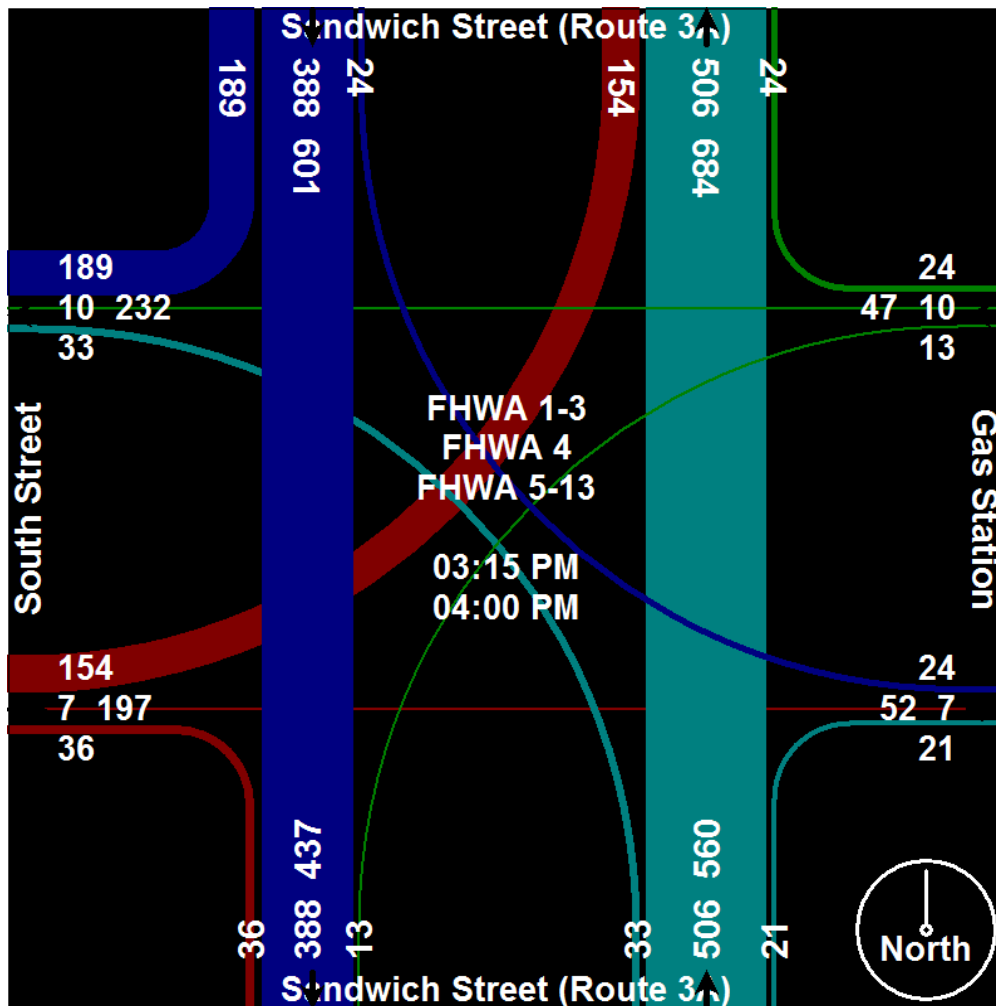




Old Colony Planning Council  
70 School Street  
Brockton, MA 02301  
508-583-1833  
[www.ocpcrpa.org](http://www.ocpcrpa.org)

Community: Plymouth  
Weather: Clear  
Board # & Staff: DB-400 (3) / JC  
Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_PM  
Site Code : 239  
Start Date : 5/3/2011  
Page No : 5





Old Colony Planning Council  
70 School Street  
Brockton, MA 02301  
508-583-1833  
[www.ocpcrpa.org](http://www.ocpcrpa.org)

Community: Plymouth  
Weather: Clear  
Board # & Staff: DB-400 (3) / JC  
Traffic Control: Two-way Stop

File Name : 239\_Sandwich(3A)&South\_PM  
Site Code : 239  
Start Date : 5/3/2011  
Page No : 6

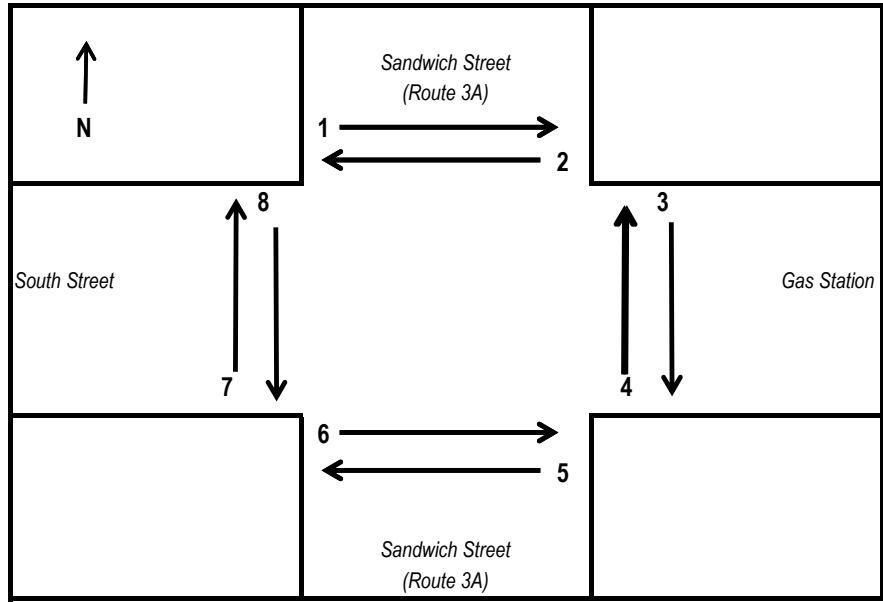
Image 1



# Old Colony Planning Council

## Intersection Pedestrian Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ South Street  
**Weather:** Clear      **Board #:** DB-400 (3)      **Staff:** JC      **Date:** 5/3/2011



| Interval          |             | 1         | 2         | 3        | 4        | 5        | 6        | 7        | 8        |
|-------------------|-------------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| 3:00 PM - 3:15 PM | Peds        | 3         | 1         |          |          |          |          |          |          |
| 3:15 PM - 3:30 PM | Peds        | 2         | 10        | 3        |          |          |          |          |          |
| 3:30 PM - 3:45 PM | Peds        |           | 2         |          |          |          |          |          |          |
| 3:45 PM - 4:00 PM | Peds        |           | 1         |          |          |          |          |          |          |
| 4:00 PM - 4:15 PM | Peds        |           |           |          |          |          |          |          |          |
| 4:15 PM - 4:30 PM | Peds        |           |           | 2        | 2        |          |          |          |          |
| 4:30 PM - 4:45 PM | Peds        | 3         | 1         |          |          |          |          |          |          |
| 4:45 PM - 5:00 PM | Peds        |           |           |          |          |          |          |          |          |
| 5:00 PM - 5:15 PM | Peds        |           |           |          |          |          |          |          |          |
| 5:15 PM - 5:30 PM | Peds        |           |           |          |          |          |          |          |          |
| 5:30 PM - 5:45 PM | Peds        |           | 3         | 1        | 1        |          |          |          |          |
| 5:45 PM - 6:00 PM | Peds        | 11        | 6         |          |          |          |          |          |          |
| <b>Total</b>      | <b>Peds</b> | <b>19</b> | <b>24</b> | <b>6</b> | <b>3</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Comments: High pedestrian traffic because of school release.

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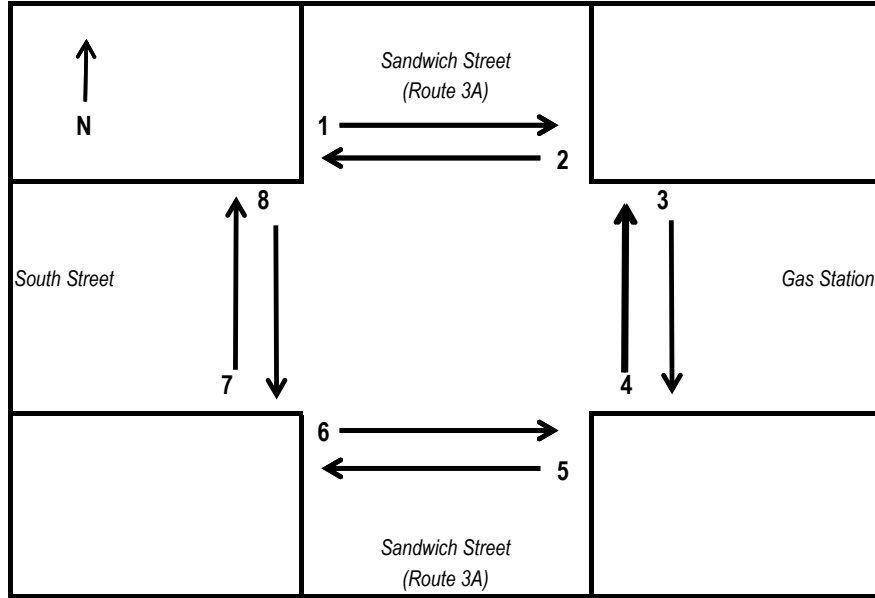


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# Old Colony Planning Council

## Intersection Bicycle Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ South Street  
**Weather:** Clear      **Board #:** DB-400 (3)      **Staff:** JC      **Date:** 5/3/2011



| Interval          |              | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        |
|-------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3:00 PM - 3:15 PM | Bikes        |          |          |          |          |          |          |          |          |
| 3:15 PM - 3:30 PM | Bikes        |          |          |          | 1        |          |          |          |          |
| 3:30 PM - 3:45 PM | Bikes        |          |          |          |          |          |          |          |          |
| 3:45 PM - 4:00 PM | Bikes        |          |          | 1        |          |          |          |          |          |
| 4:00 PM - 4:15 PM | Bikes        |          |          |          | 1        |          |          |          |          |
| 4:15 PM - 4:30 PM | Bikes        |          |          |          |          |          |          |          |          |
| 4:30 PM - 4:45 PM | Bikes        |          |          |          | 2        |          |          |          |          |
| 4:45 PM - 5:00 PM | Bikes        |          |          |          |          |          |          |          |          |
| 5:00 PM - 5:15 PM | Bikes        |          |          |          |          |          |          |          |          |
| 5:15 PM - 5:30 PM | Bikes        |          |          |          | 1        |          |          |          |          |
| 5:30 PM - 5:45 PM | Bikes        |          |          |          | 2        |          |          |          |          |
| 5:45 PM - 6:00 PM | Bikes        |          |          |          |          |          |          |          |          |
| <b>Total</b>      | <b>Bikes</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>7</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

**Comments:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Old Colony Planning Council  
70 School Street  
Brockton, MA 02301  
508-583-1833  
www.ocpcrpa.org

Community: Plymouth  
Weather: Clear  
Board # & Staff: TDC-8 (1) / EA  
Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Fremont\_AM  
Site Code : 239  
Start Date : 5/3/2011  
Page No : 1

Groups Printed- 3 - FHWA 4 - 13

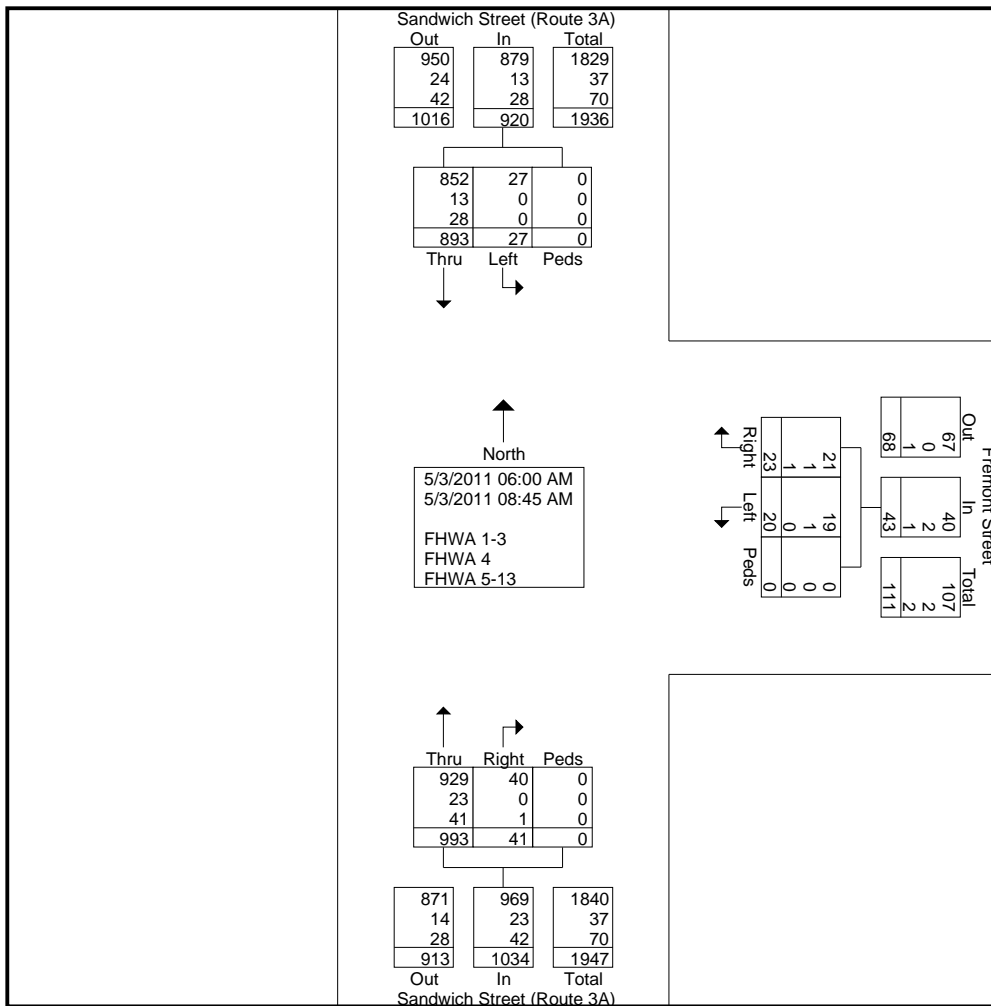
| Start Time  | Sandwich Street (Route 3A)<br>Southbound |      |      |            | Fremont Street<br>Westbound |       |      |            | Sandwich Street (Route 3A)<br>Northbound |       |      |            | Int. Total |
|-------------|--|------|------|------------|-----------------------------|-------|------|------------|--|-------|------|------------|------------|
|             | Left                                     | Thru | Peds | App. Total | Left                        | Right | Peds | App. Total | Thru                                     | Right | Peds | App. Total |            |
| Factor      | 1.0                                      | 1.0  | 1.0  |            | 1.0                         | 1.0   | 1.0  |            | 1.0                                      | 1.0   | 1.0  |            |            |
| 06:00 AM    | 0  | 24   | 0    | 24         | 0                           | 0     | 0    | 0          | 27                                       | 0     | 0    | 27         | 51         |
| 06:15 AM    | 0  | 36   | 0    | 36         | 0                           | 2     | 0    | 2          | 36                                       | 0     | 0    | 36         | 74         |
| 06:30 AM    | 0  | 55   | 0    | 55         | 0                           | 0     | 0    | 0          | 41                                       | 0     | 0    | 41         | 96         |
| 06:45 AM    | 1  | 87   | 0    | 88         | 3                           | 2     | 0    | 5          | 62                                       | 2     | 0    | 64         | 157        |
| Total       | 1  | 202  | 0    | 203        | 3                           | 4     | 0    | 7          | 166                                      | 2     | 0    | 168        | 378        |
| 07:00 AM    | 1  | 129  | 0    | 130        | 4                           | 0     | 0    | 4          | 79                                       | 2     | 0    | 81         | 215        |
| 07:15 AM    | 2  | 89   | 0    | 91         | 2                           | 1     | 0    | 3          | 100                                      | 0     | 0    | 100        | 194        |
| 07:30 AM    | 5  | 61   | 0    | 66         | 1                           | 4     | 0    | 5          | 110                                      | 1     | 0    | 111        | 182        |
| 07:45 AM    | 1  | 78   | 0    | 79         | 5                           | 3     | 0    | 8          | 114                                      | 2     | 0    | 116        | 203        |
| Total       | 9  | 357  | 0    | 366        | 12                          | 8     | 0    | 20         | 403                                      | 5     | 0    | 408        | 794        |
| 08:00 AM    | 5  | 95   | 0    | 100        | 2                           | 3     | 0    | 5          | 101                                      | 10    | 0    | 111        | 216        |
| 08:15 AM    | 5  | 74   | 0    | 79         | 1                           | 1     | 0    | 2          | 106                                      | 6     | 0    | 112        | 193        |
| 08:30 AM    | 2  | 64   | 0    | 66         | 2                           | 1     | 0    | 3          | 97                                       | 5     | 0    | 102        | 171        |
| 08:45 AM    | 5  | 101  | 0    | 106        | 0                           | 6     | 0    | 6          | 120                                      | 13    | 0    | 133        | 245        |
| Total       | 17                                       | 334  | 0    | 351        | 5                           | 11    | 0    | 16         | 424                                      | 34    | 0    | 458        | 825        |
| Grand Total | 27                                       | 893  | 0    | 920        | 20                          | 23    | 0    | 43         | 993                                      | 41    | 0    | 1034       | 1997       |
| Apprch %    | 2.9                                      | 97.1 | 0    |            | 46.5                        | 53.5  | 0    |            | 96                                       | 4     | 0    |            |            |
| Total %     | 1.4                                      | 44.7 | 0    | 46.1       | 1                           | 1.2   | 0    | 2.2        | 49.7                                     | 2.1   | 0    | 51.8       |            |
| FHWA 1-3    | 27                                       | 852  | 0    | 879        | 19                          | 21    | 0    | 40         | 929                                      | 40    | 0    | 969        | 1888       |
| % FHWA 1-3  | 100                                      | 95.4 | 0    | 95.5       | 95                          | 91.3  | 0    | 93         | 93.6                                     | 97.6  | 0    | 93.7       | 94.5       |
| FHWA 4      | 0  | 13   | 0    | 13         | 1                           | 1     | 0    | 2          | 23                                       | 0     | 0    | 23         | 38         |
| % FHWA 4    | 0  | 1.5  | 0    | 1.4        | 5                           | 4.3   | 0    | 4.7        | 2.3                                      | 0     | 0    | 2.2        | 1.9        |
| FHWA 5-13   | 0  | 28   | 0    | 28         | 0                           | 1     | 0    | 1          | 41                                       | 1     | 0    | 42         | 71         |
| % FHWA 5-13 | 0  | 3.1  | 0    | 3          | 0                           | 4.3   | 0    | 2.3        | 4.1                                      | 2.4   | 0    | 4.1        | 3.6        |



Old Colony Planning Council  
 70 School Street  
 Brockton, MA 02301  
 508-583-1833  
 www.ocpcrpa.org

Community: Plymouth  
 Weather: Clear  
 Board # & Staff: TDC-8 (1) / EA  
 Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Fremont\_AM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 2

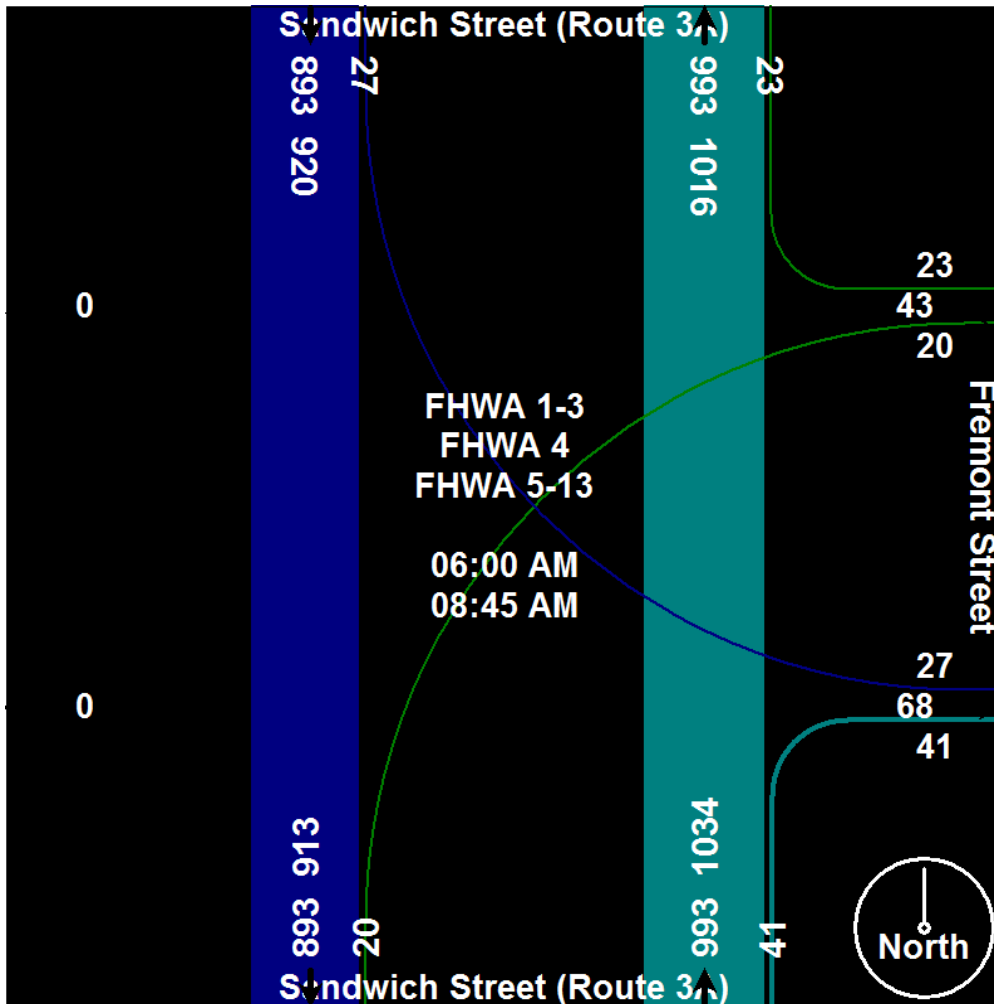




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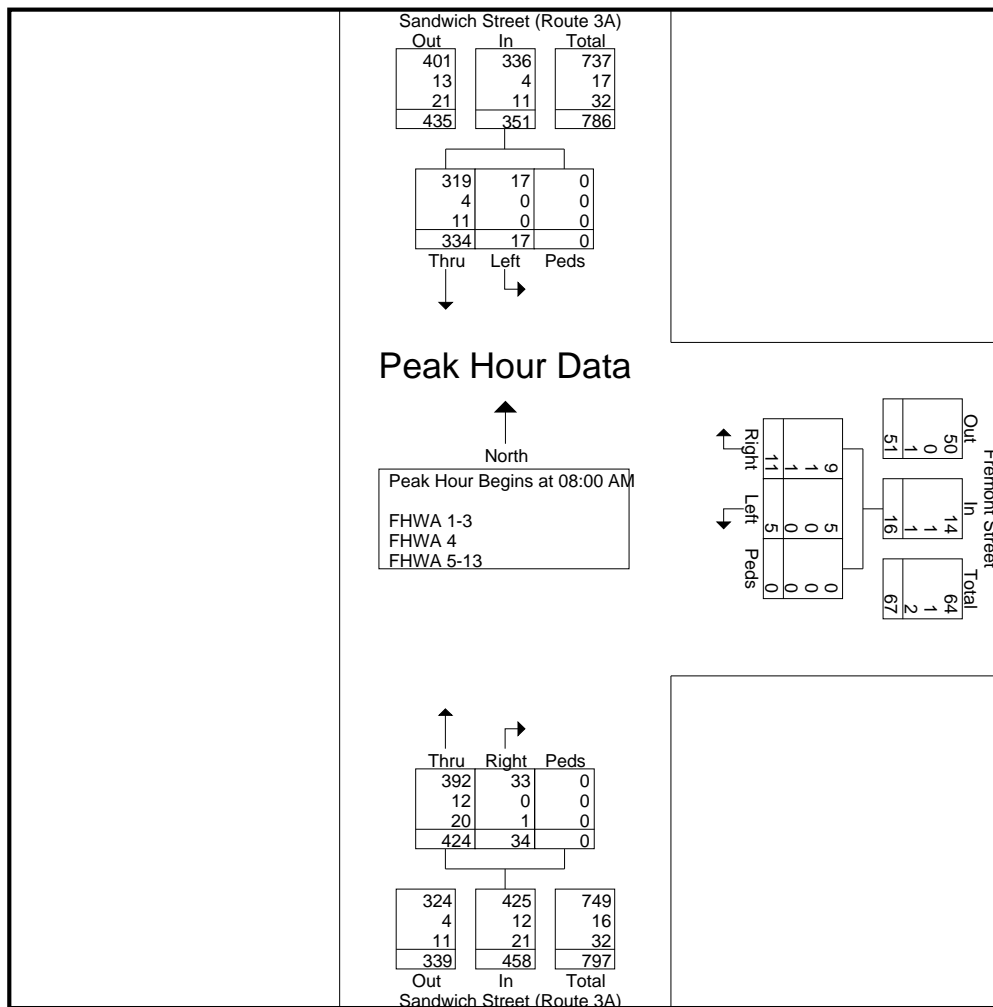


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 Page No : 4

| Start Time   | Sandwich Street (Route 3A) Southbound |            |      |            | Fremont Street Westbound |          |      |            | Sandwich Street (Route 3A) Northbound |           |      |            | Int. Total |
|--|---------------------------------------|------------|------|------------|--------------------------|----------|------|------------|---------------------------------------|-----------|------|------------|------------|
|  | Left                                  | Thru       | Peds | App. Total | Left                     | Right    | Peds | App. Total | Thru                                  | Right     | Peds | App. Total |            |
| Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1 |                                       |            |      |            |                          |          |      |            |                                       |           |      |            |            |
| Peak Hour for Entire Intersection Begins at 08:00 AM       |                                       |            |      |            |                          |          |      |            |                                       |           |      |            |            |
| 08:00 AM   | 5                                     | 95         | 0    | 100        | 2                        | 3        | 0    | 5          | 101                                   | 10        | 0    | 111        | 216        |
| 08:15 AM   | 5                                     | 74         | 0    | 79         | 1                        | 1        | 0    | 2          | 106                                   | 6         | 0    | 112        | 193        |
| 08:30 AM   | 2                                     | 64         | 0    | 66         | 2                        | 1        | 0    | 3          | 97                                    | 5         | 0    | 102        | 171        |
| 08:45 AM   | 5                                     | <b>101</b> | 0    | <b>106</b> | 0                        | <b>6</b> | 0    | <b>6</b>   | <b>120</b>                            | <b>13</b> | 0    | <b>133</b> | <b>245</b> |
| Total Volume   | 17                                    | 334        | 0    | 351        | 5                        | 11       | 0    | 16         | 424                                   | 34        | 0    | 458        | 825        |
| % App. Total   | 4.8                                   | 95.2       | 0    |            | 31.2                     | 68.8     | 0    |            | 92.6                                  | 7.4       | 0    |            |            |
| PHF  | .850                                  | .827       | .000 | .828       | .625                     | .458     | .000 | .667       | .883                                  | .654      | .000 | .861       | .842       |
| FHWA 1-3   | 17                                    | 319        | 0    | 336        | 5                        | 9        | 0    | 14         | 392                                   | 33        | 0    | 425        | 775        |
| % FHWA 1-3   | 100                                   | 95.5       | 0    | 95.7       | 100                      | 81.8     | 0    | 87.5       | 92.5                                  | 97.1      | 0    | 92.8       | 93.9       |
| FHWA 4   | 0                                     | 4          | 0    | 4          | 0                        | 1        | 0    | 1          | 12                                    | 0         | 0    | 12         | 17         |
| % FHWA 4   | 0                                     | 1.2        | 0    | 1.1        | 0                        | 9.1      | 0    | 6.3        | 2.8                                   | 0         | 0    | 2.6        | 2.1        |
| FHWA 5-13  | 0                                     | 11         | 0    | 11         | 0                        | 1        | 0    | 1          | 20                                    | 1         | 0    | 21         | 33         |
| % FHWA 5-13  | 0                                     | 3.3        | 0    | 3.1        | 0                        | 9.1      | 0    | 6.3        | 4.7                                   | 2.9       | 0    | 4.6        | 4.0        |

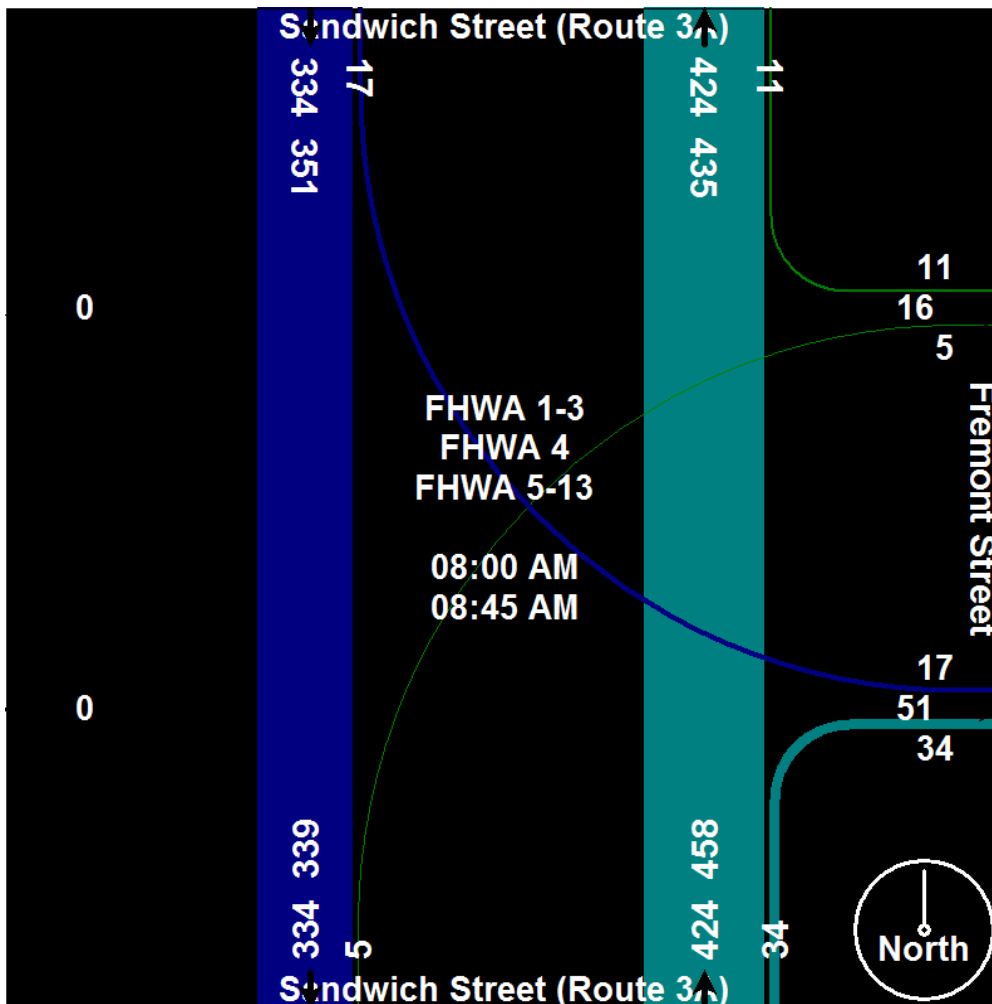




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508-583-1833  
[www.ocpcrpa.org](http://www.ocpcrpa.org)

Community: Plymouth  
Weather: Clear  
Board # & Staff: TDC-8 (1) / EA  
Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Fremont\_AM  
Site Code : 239  
Start Date : 5/3/2011  
Page No : 5





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Community: Plymouth  
Weather: Clear  
Board # & Staff: TDC-8 (1) / EA  
Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Fremont\_AM  
Site Code : 239  
Start Date : 5/3/2011  
Page No : 6

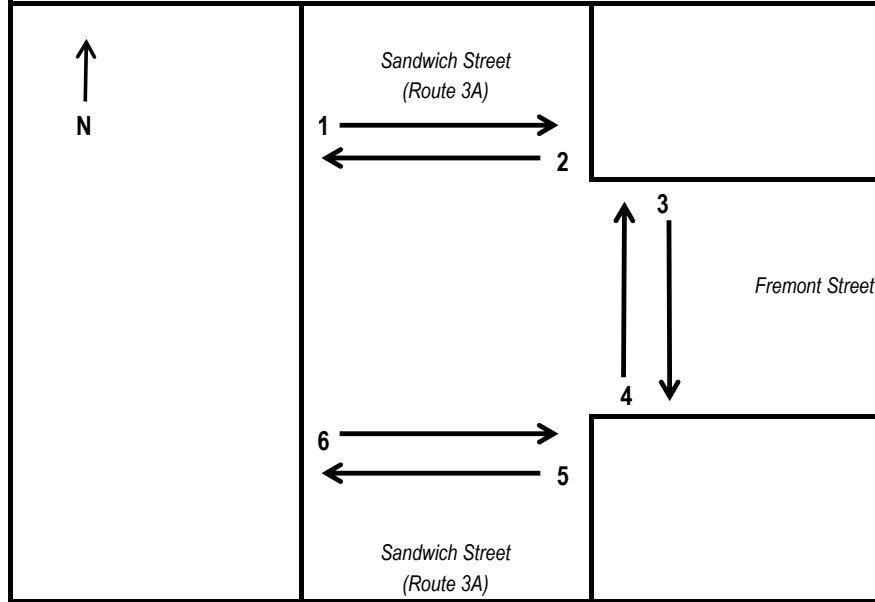
Image 1



# Old Colony Planning Council

## Intersection Pedestrian Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ Fremont Street  
**Weather:** Clear      **Board #:** TDC-8 (1)      **Staff:** EA      **Date:** 5/3/2011



| Interval          |             | 1        | 2        | 3         | 4        | 5        | 6        | 7        | 8        |
|-------------------|-------------|----------|----------|-----------|----------|----------|----------|----------|----------|
| 6:00 AM - 6:15 AM | Peds        |          |          |           | 2        |          |          |          |          |
| 6:15 AM - 6:30 AM | Peds        |          |          |           |          |          |          |          |          |
| 6:30 AM - 6:45 AM | Peds        | 1        |          | 5         | 2        | 1        | 1        |          |          |
| 6:45 AM - 7:00 AM | Peds        |          |          |           |          |          |          |          |          |
| 7:00 AM - 7:15 AM | Peds        |          |          |           | 1        |          |          |          |          |
| 7:15 AM - 7:30 AM | Peds        |          |          | 3         | 2        |          |          |          |          |
| 7:30 AM - 7:45 AM | Peds        |          |          |           |          |          |          |          |          |
| 7:45 AM - 8:00 AM | Peds        |          | 1        |           |          |          |          |          |          |
| 8:00 AM - 8:15 AM | Peds        |          | 1        |           |          |          |          |          |          |
| 8:15 AM - 8:30 AM | Peds        |          |          | 2         |          |          |          |          |          |
| 8:30 AM - 8:45 AM | Peds        |          |          |           |          |          |          |          |          |
| 8:45 AM - 9:00 AM | Peds        |          |          |           |          |          |          |          |          |
| <b>Total</b>      | <b>Peds</b> | <b>1</b> | <b>2</b> | <b>10</b> | <b>7</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> |

Comments:

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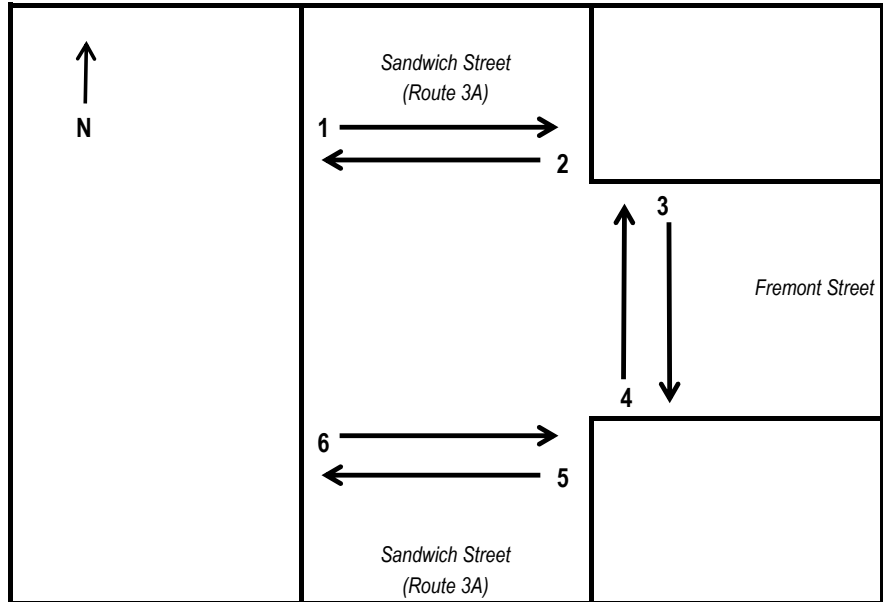


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# Old Colony Planning Council

## Intersection Bicycle Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ Fremont Street  
**Weather:** Clear      **Board #:** TDC-8 (1)      **Staff:** EA      **Date:** 5/3/2011



| Interval          |              | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        |
|-------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 6:00 AM - 6:15 AM | Bikes        |          |          |          |          |          |          |          |          |
| 6:15 AM - 6:30 AM | Bikes        |          |          |          | 1        |          |          |          |          |
| 6:30 AM - 6:45 AM | Bikes        |          |          | 1        |          |          |          |          |          |
| 6:45 AM - 7:00 AM | Bikes        |          |          |          |          |          |          |          |          |
| 7:00 AM - 7:15 AM | Bikes        |          |          |          |          |          |          |          |          |
| 7:15 AM - 7:30 AM | Bikes        |          |          |          |          |          |          |          |          |
| 7:30 AM - 7:45 AM | Bikes        |          |          |          |          |          |          |          |          |
| 7:45 AM - 8:00 AM | Bikes        |          |          |          |          |          |          |          |          |
| 8:00 AM - 8:15 AM | Bikes        |          |          |          |          |          |          |          |          |
| 8:15 AM - 8:30 AM | Bikes        |          |          |          |          |          |          |          |          |
| 8:30 AM - 8:45 AM | Bikes        |          |          |          |          |          |          |          |          |
| 8:45 AM - 9:00 AM | Bikes        |          |          |          |          |          |          |          |          |
| <b>Total</b>      | <b>Bikes</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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Old Colony Planning Council  
 70 School Street  
 Brockton, MA 02301  
 508-583-1833  
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Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (4) / KM  
 Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Fremont\_PM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 1

Groups Printed- 3 - FHWA 4 - 13

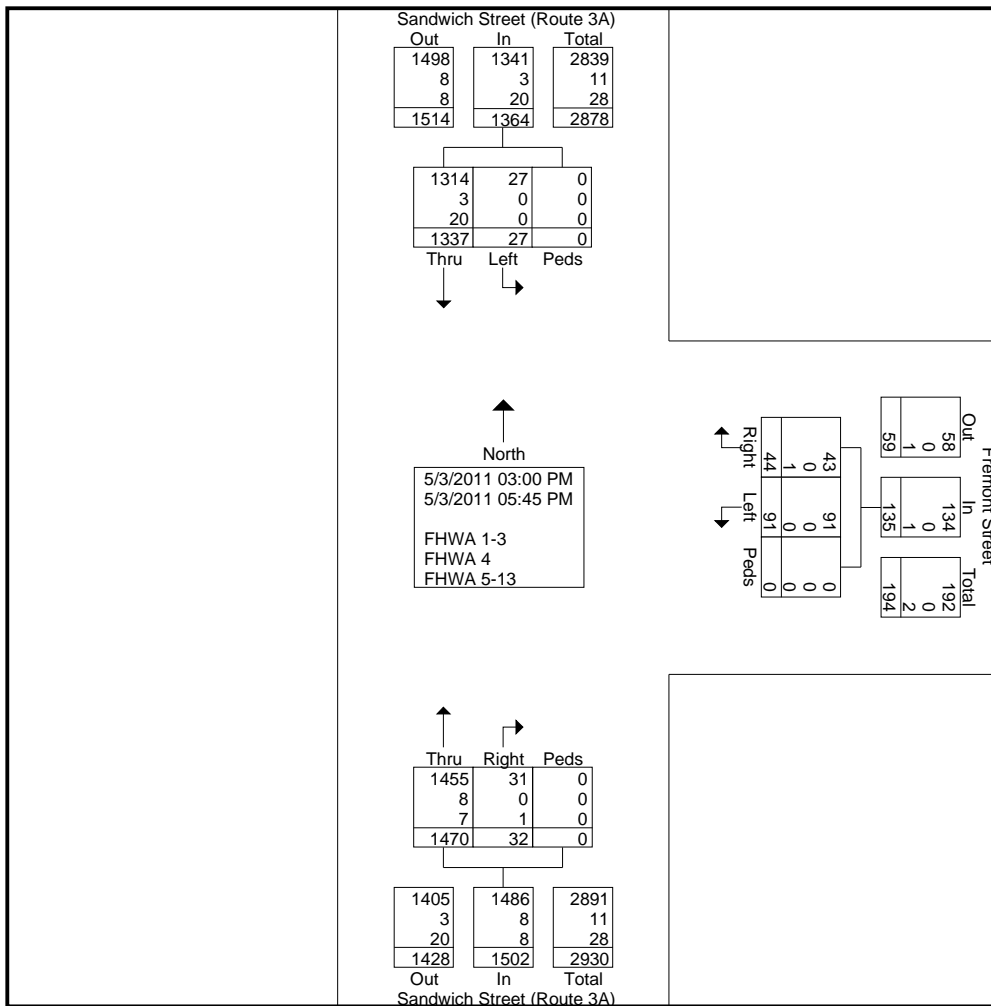
| Start Time  | Sandwich Street (Route 3A)<br>Southbound |      |      |            | Fremont Street<br>Westbound |       |      |            | Sandwich Street (Route 3A)<br>Northbound |       |      |            | Int. Total |
|-------------|--|------|------|------------|-----------------------------|-------|------|------------|--|-------|------|------------|------------|
|             | Left                                     | Thru | Peds | App. Total | Left                        | Right | Peds | App. Total | Thru                                     | Right | Peds | App. Total |            |
| Factor      | 1.0                                      | 1.0  | 1.0  |            | 1.0                         | 1.0   | 1.0  |            | 1.0                                      | 1.0   | 1.0  |            |            |
| 03:00 PM    | 4  | 103  | 0    | 107        | 4                           | 4     | 0    | 8          | 115                                      | 6     | 0    | 121        | 236        |
| 03:15 PM    | 2  | 110  | 0    | 112        | 6                           | 6     | 0    | 12         | 121                                      | 5     | 0    | 126        | 250        |
| 03:30 PM    | 1  | 109  | 0    | 110        | 12                          | 3     | 0    | 15         | 128                                      | 5     | 0    | 133        | 258        |
| 03:45 PM    | 3  | 91   | 0    | 94         | 6                           | 2     | 0    | 8          | 134                                      | 1     | 0    | 135        | 237        |
| Total       | 10                                       | 413  | 0    | 423        | 28                          | 15    | 0    | 43         | 498                                      | 17    | 0    | 515        | 981        |
| 04:00 PM    | 0  | 122  | 0    | 122        | 6                           | 8     | 0    | 14         | 134                                      | 3     | 0    | 137        | 273        |
| 04:15 PM    | 1  | 113  | 0    | 114        | 7                           | 3     | 0    | 10         | 122                                      | 3     | 0    | 125        | 249        |
| 04:30 PM    | 1  | 116  | 0    | 117        | 13                          | 3     | 0    | 16         | 133                                      | 3     | 0    | 136        | 269        |
| 04:45 PM    | 2  | 107  | 0    | 109        | 10                          | 4     | 0    | 14         | 111                                      | 2     | 0    | 113        | 236        |
| Total       | 4  | 458  | 0    | 462        | 36                          | 18    | 0    | 54         | 500                                      | 11    | 0    | 511        | 1027       |
| 05:00 PM    | 1  | 134  | 0    | 135        | 8                           | 0     | 0    | 8          | 123                                      | 2     | 0    | 125        | 268        |
| 05:15 PM    | 5  | 128  | 0    | 133        | 6                           | 2     | 0    | 8          | 105                                      | 1     | 0    | 106        | 247        |
| 05:30 PM    | 1  | 108  | 0    | 109        | 9                           | 3     | 0    | 12         | 115                                      | 1     | 0    | 116        | 237        |
| 05:45 PM    | 6  | 96   | 0    | 102        | 4                           | 6     | 0    | 10         | 129                                      | 0     | 0    | 129        | 241        |
| Total       | 13                                       | 466  | 0    | 479        | 27                          | 11    | 0    | 38         | 472                                      | 4     | 0    | 476        | 993        |
| Grand Total | 27                                       | 1337 | 0    | 1364       | 91                          | 44    | 0    | 135        | 1470                                     | 32    | 0    | 1502       | 3001       |
| Apprch %    | 2  | 98   | 0    |            | 67.4                        | 32.6  | 0    |            | 97.9                                     | 2.1   | 0    |            |            |
| Total %     | 0.9                                      | 44.6 | 0    | 45.5       | 3                           | 1.5   | 0    | 4.5        | 49                                       | 1.1   | 0    | 50         |            |
| FHWA 1-3    | 27                                       | 1314 | 0    | 1341       | 91                          | 43    | 0    | 134        | 1455                                     | 31    | 0    | 1486       | 2961       |
| % FHWA 1-3  | 100                                      | 98.3 | 0    | 98.3       | 100                         | 97.7  | 0    | 99.3       | 99                                       | 96.9  | 0    | 98.9       | 98.7       |
| FHWA 4      | 0  | 3    | 0    | 3          | 0                           | 0     | 0    | 0          | 8  | 0     | 0    | 8          | 11         |
| % FHWA 4    | 0  | 0.2  | 0    | 0.2        | 0                           | 0     | 0    | 0          | 0.5                                      | 0     | 0    | 0.5        | 0.4        |
| FHWA 5-13   | 0  | 20   | 0    | 20         | 0                           | 1     | 0    | 1          | 7  | 1     | 0    | 8          | 29         |
| % FHWA 5-13 | 0  | 1.5  | 0    | 1.5        | 0                           | 2.3   | 0    | 0.7        | 0.5                                      | 3.1   | 0    | 0.5        | 1          |



Old Colony Planning Council  
 70 School Street  
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Community: Plymouth  
 Weather: Clear  
 Board # & Staff: DB-400 (4) / KM  
 Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Fremont\_PM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 2

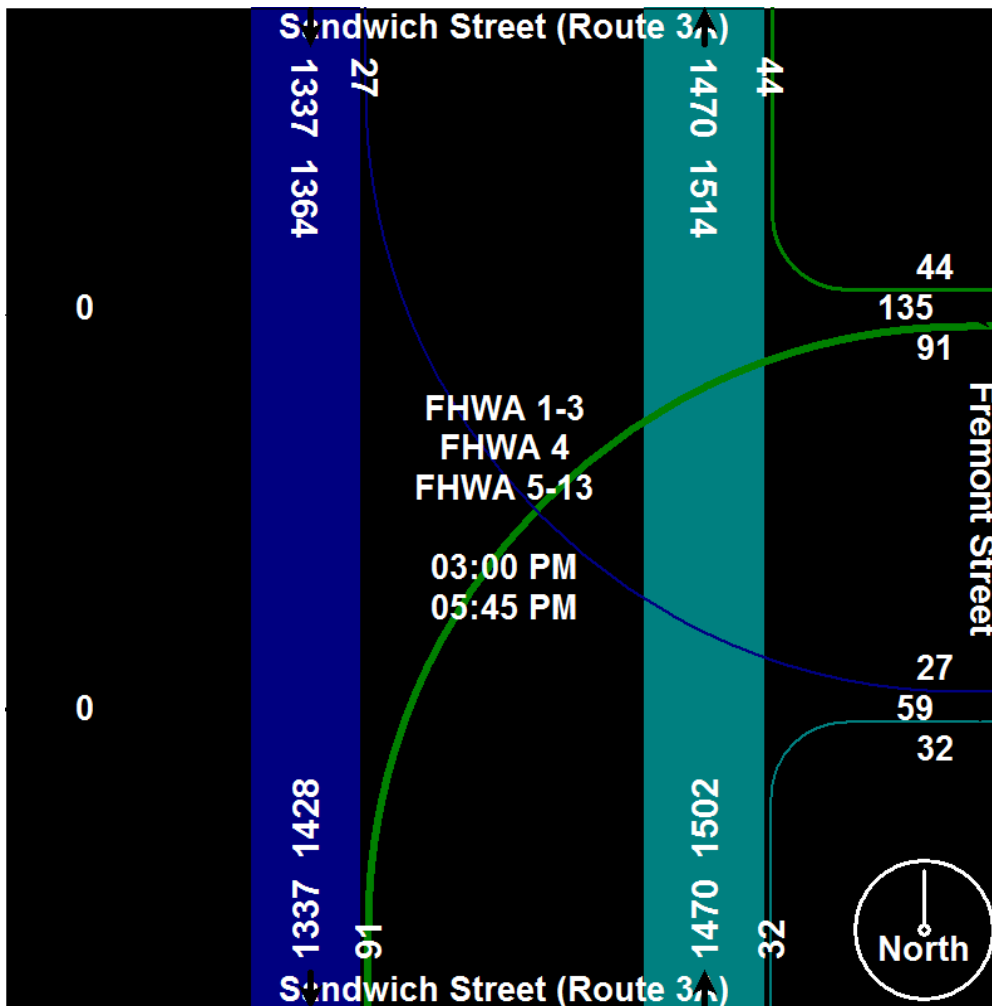




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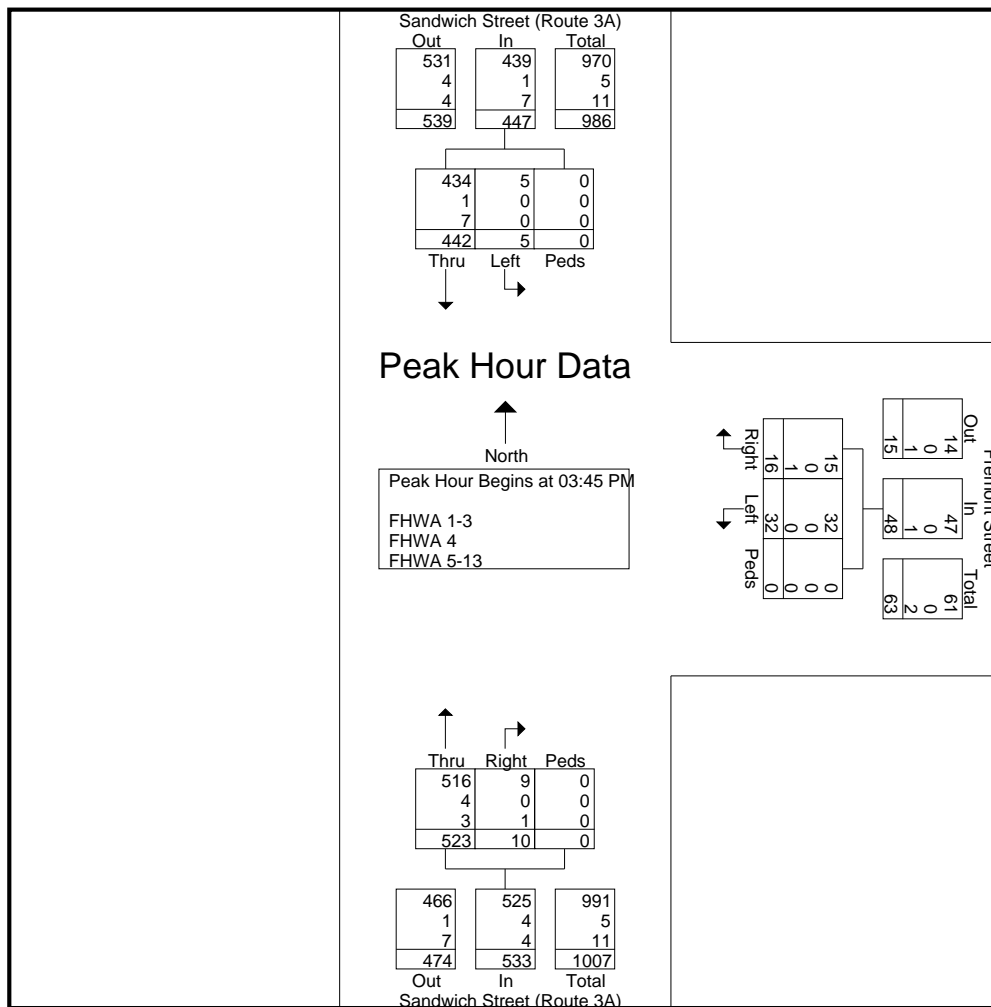


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File Name : 239\_Sandwich(3A)&Fremont\_PM  
 Site Code : 239  
 Start Date : 5/3/2011  
 Page No : 4

| Start Time   | Sandwich Street (Route 3A) Southbound |      |      |            | Fremont Street Westbound |       |      |            | Sandwich Street (Route 3A) Northbound |       |      |            | Int. Total |
|--|---------------------------------------|------|------|------------|--------------------------|-------|------|------------|---------------------------------------|-------|------|------------|------------|
|  | Left                                  | Thru | Peds | App. Total | Left                     | Right | Peds | App. Total | Thru                                  | Right | Peds | App. Total |            |
| Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1 |                                       |      |      |            |                          |       |      |            |                                       |       |      |            |            |
| Peak Hour for Entire Intersection Begins at 03:45 PM       |                                       |      |      |            |                          |       |      |            |                                       |       |      |            |            |
| 03:45 PM   | 3                                     | 91   | 0    | 94         | 6                        | 2     | 0    | 8          | 134                                   | 1     | 0    | 135        | 237        |
| 04:00 PM   | 0                                     | 122  | 0    | 122        | 6                        | 8     | 0    | 14         | 134                                   | 3     | 0    | 137        | 273        |
| 04:15 PM   | 1                                     | 113  | 0    | 114        | 7                        | 3     | 0    | 10         | 122                                   | 3     | 0    | 125        | 249        |
| 04:30 PM   | 1                                     | 116  | 0    | 117        | 13                       | 3     | 0    | 16         | 133                                   | 3     | 0    | 136        | 269        |
| Total Volume   | 5                                     | 442  | 0    | 447        | 32                       | 16    | 0    | 48         | 523                                   | 10    | 0    | 533        | 1028       |
| % App. Total   | 1.1                                   | 98.9 | 0    |            | 66.7                     | 33.3  | 0    |            | 98.1                                  | 1.9   | 0    |            |            |
| PHF  | .417                                  | .906 | .000 | .916       | .615                     | .500  | .000 | .750       | .976                                  | .833  | .000 | .973       | .941       |
| FHWA 1-3   | 5                                     | 434  | 0    | 439        | 32                       | 15    | 0    | 47         | 516                                   | 9     | 0    | 525        | 1011       |
| % FHWA 1-3   | 100                                   | 98.2 | 0    | 98.2       | 100                      | 93.8  | 0    | 97.9       | 98.7                                  | 90.0  | 0    | 98.5       | 98.3       |
| FHWA 4   | 0                                     | 1    | 0    | 1          | 0                        | 0     | 0    | 0          | 4                                     | 0     | 0    | 4          | 5          |
| % FHWA 4   | 0                                     | 0.2  | 0    | 0.2        | 0                        | 0     | 0    | 0          | 0.8                                   | 0     | 0    | 0.8        | 0.5        |
| FHWA 5-13  | 0                                     | 7    | 0    | 7          | 0                        | 1     | 0    | 1          | 3                                     | 1     | 0    | 4          | 12         |
| % FHWA 5-13  | 0                                     | 1.6  | 0    | 1.6        | 0                        | 6.3   | 0    | 2.1        | 0.6                                   | 10.0  | 0    | 0.8        | 1.2        |

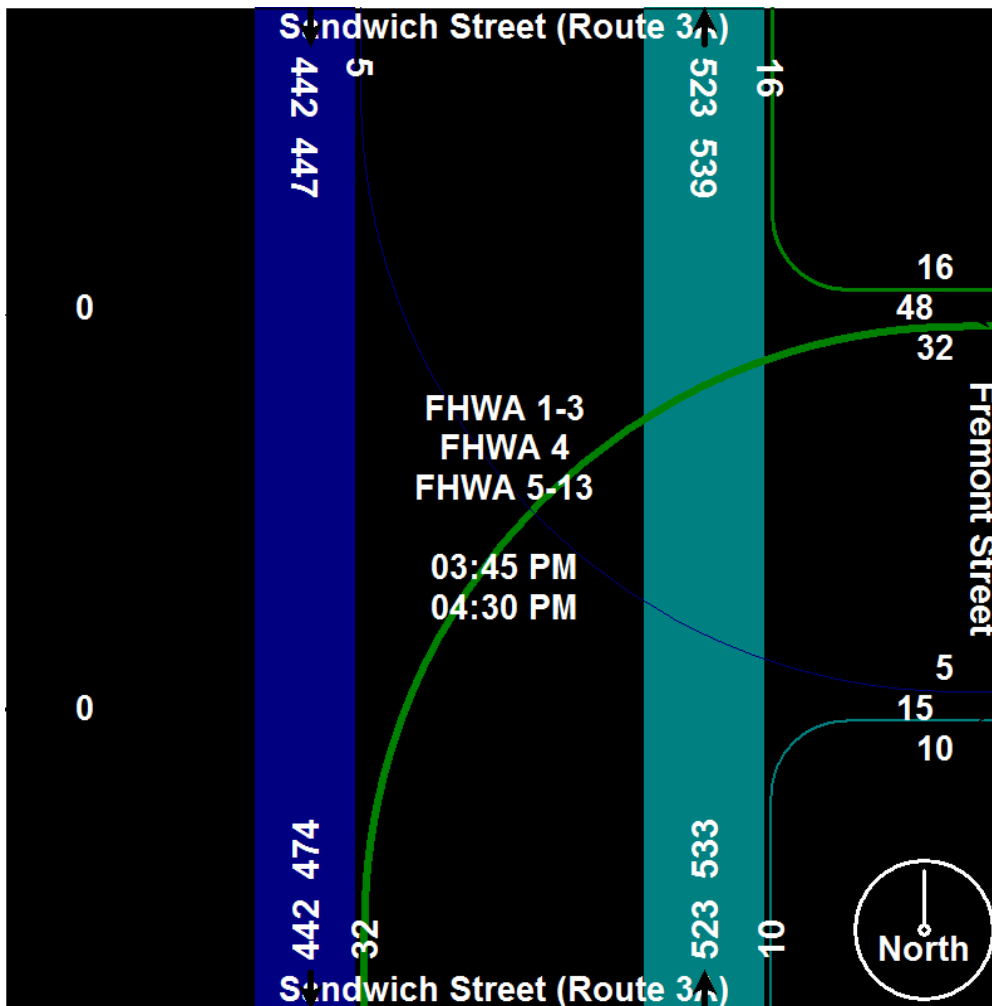




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Community: Plymouth  
Weather: Clear  
Board # & Staff: DB-400 (4) / KM  
Traffic Control: One Way Stop

File Name : 239\_Sandwich(3A)&Fremont\_PM  
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Page No : 6

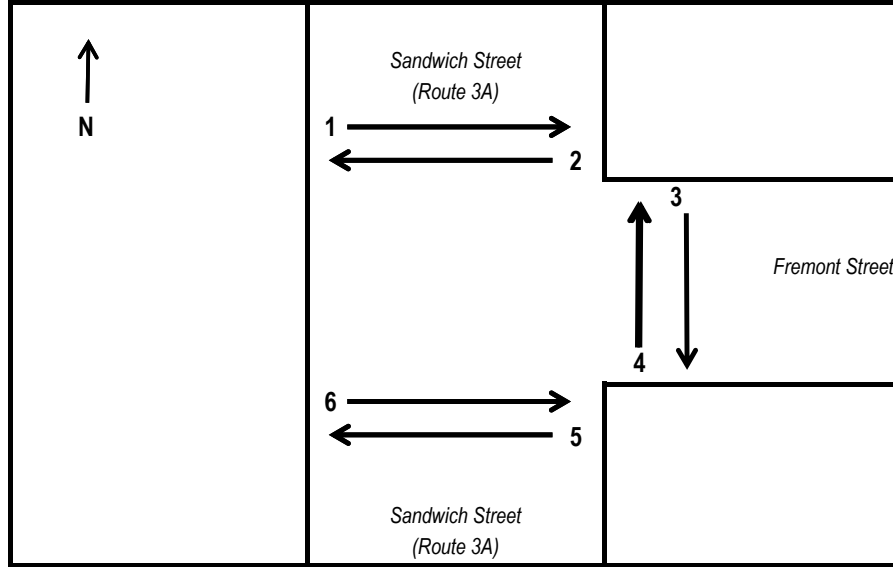
Image 1



# Old Colony Planning Council

## Intersection Pedestrian Directional Counting Field Sheet

**Community:** Plymouth  
**Street:** Sandwich Street (Route 3A)  
**Location:** @ Fremont Street  
**Weather:** Clear      **Board #:** DB-400 (4)      **Staff:** KM      **Date:** 5/3/2011



| Interval          |             | 1        | 2        | 3         | 4         | 5        | 6        | 7        | 8        |
|-------------------|-------------|----------|----------|-----------|-----------|----------|----------|----------|----------|
| 3:00 PM - 3:15 PM | Peds        |          |          | 1         | 4         |          |          |          |          |
| 3:15 PM - 3:30 PM | Peds        |          |          |           |           |          | 1        |          |          |
| 3:30 PM - 3:45 PM | Peds        |          |          |           | 2         | 1        |          |          |          |
| 3:45 PM - 4:00 PM | Peds        |          |          |           |           |          |          |          |          |
| 4:00 PM - 4:15 PM | Peds        |          |          |           |           |          |          |          |          |
| 4:15 PM - 4:30 PM | Peds        |          |          | 3         | 3         |          |          |          |          |
| 4:30 PM - 4:45 PM | Peds        |          |          | 1         | 1         |          |          |          |          |
| 4:45 PM - 5:00 PM | Peds        |          |          |           |           |          |          |          |          |
| 5:00 PM - 5:15 PM | Peds        |          |          | 1         |           |          |          |          |          |
| 5:15 PM - 5:30 PM | Peds        |          |          | 3         | 4         |          |          |          |          |
| 5:30 PM - 5:45 PM | Peds        |          |          | 2         | 1         |          |          |          |          |
| 5:45 PM - 6:00 PM | Peds        |          |          | 3         | 3         |          |          |          |          |
| <b>Total</b>      | <b>Peds</b> | <b>0</b> | <b>0</b> | <b>14</b> | <b>18</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> |

Comments:  


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# Old Colony Planning Council

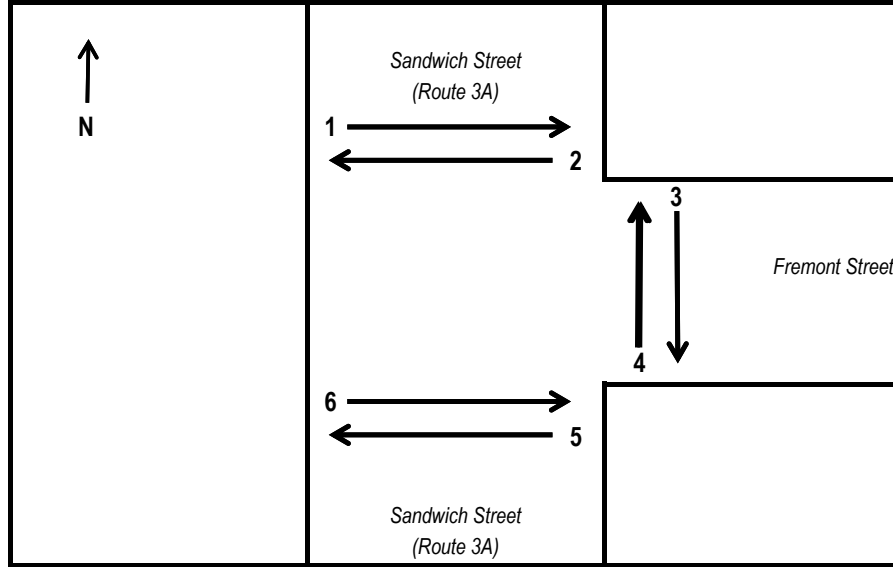
## Intersection Bicycle Directional Counting Field Sheet

Community: Plymouth

Street: Sandwich Street (Route 3A)

Location: @ Fremont Street

Weather: Clear Board #: DB-400 (4) Staff: KM Date: 5/3/2011



| Interval          |              | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        |
|-------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3:00 PM - 3:15 PM | Bikes        |          |          |          |          |          |          |          |          |
| 3:15 PM - 3:30 PM | Bikes        |          |          |          | 1        |          |          |          |          |
| 3:30 PM - 3:45 PM | Bikes        |          |          |          |          |          |          |          |          |
| 3:45 PM - 4:00 PM | Bikes        |          |          | 1        |          |          |          |          |          |
| 4:00 PM - 4:15 PM | Bikes        |          |          |          | 1        |          |          |          |          |
| 4:15 PM - 4:30 PM | Bikes        |          |          |          |          |          |          |          |          |
| 4:30 PM - 4:45 PM | Bikes        |          |          |          | 2        |          |          |          |          |
| 4:45 PM - 5:00 PM | Bikes        |          |          |          |          |          |          |          |          |
| 5:00 PM - 5:15 PM | Bikes        |          |          |          |          |          |          |          |          |
| 5:15 PM - 5:30 PM | Bikes        |          |          |          | 1        |          |          |          |          |
| 5:30 PM - 5:45 PM | Bikes        |          |          |          | 2        |          |          |          |          |
| 5:45 PM - 6:00 PM | Bikes        |          |          |          |          |          |          |          |          |
| <b>Total</b>      | <b>Bikes</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>7</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Comments:

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