# Existing Transportation Conditions

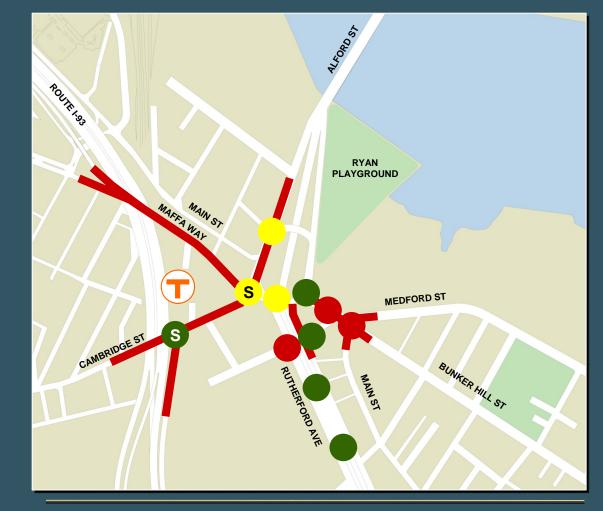




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Rutherford Avenue/Sullivan Square Design Project 21 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

### Existing Intersection Traffic Operations AM Peak Hour



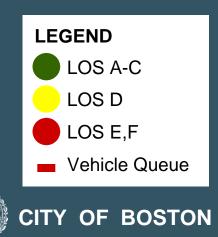


Rutherford Avenue/Sullivan Square Design Project 22 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

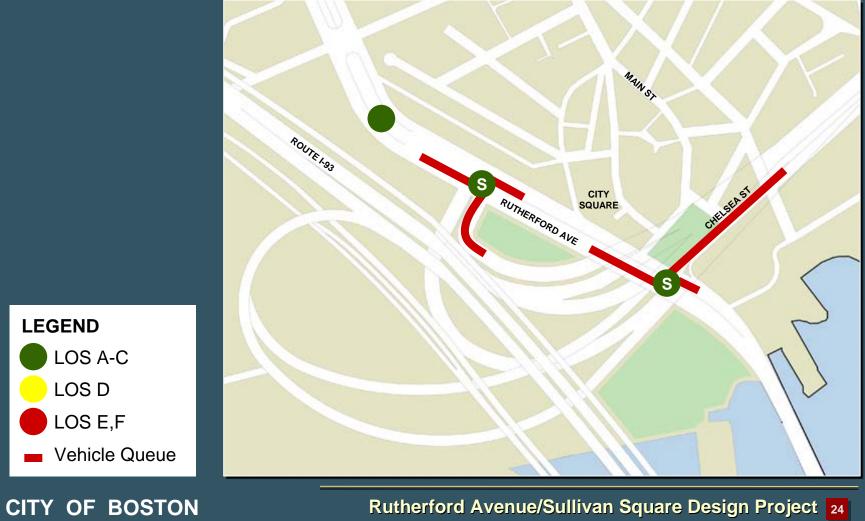
# Existing Intersection Traffic Operations



Rutherford Avenue/Sullivan Square Design Project 23 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe



### Existing Intersection Traffic Operations AM Peak Hour



Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

### Existing Intersection Traffic Operations PM Peak Hour





Rutherford Avenue/Sullivan Square Design Project 25 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

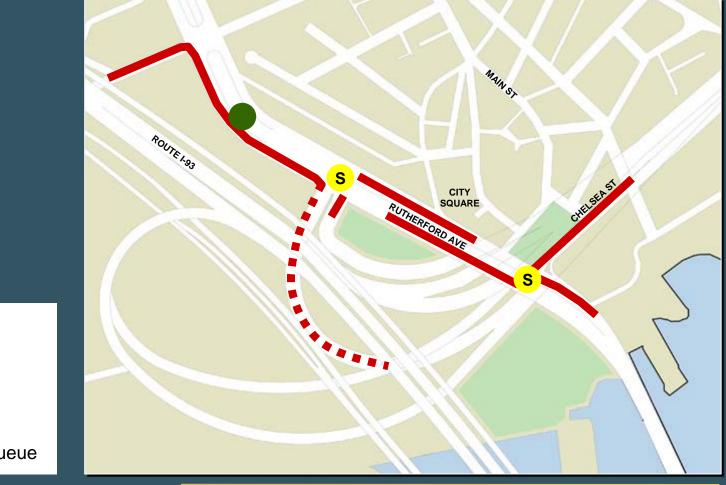
### Existing Intersection Traffic Operations PM Peak Hour







### Existing Intersection Traffic Operations PM Peak Hour

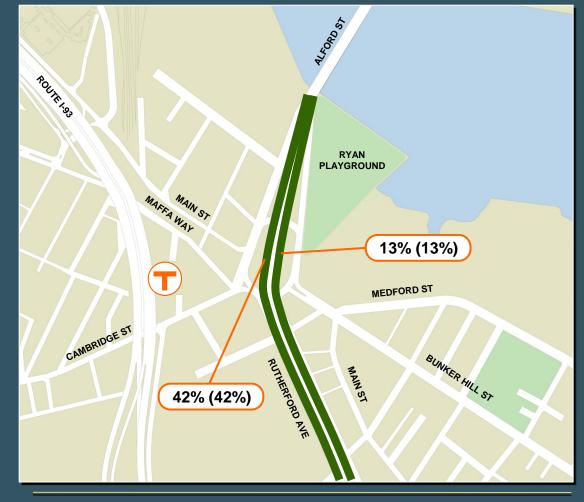


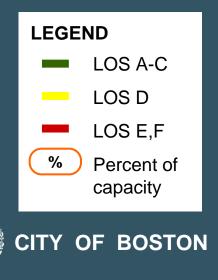
LEGEND LOS A-C LOS D LOS E,F Vehicle Queue

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Rutherford Avenue/Sullivan Square Design Project 27 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

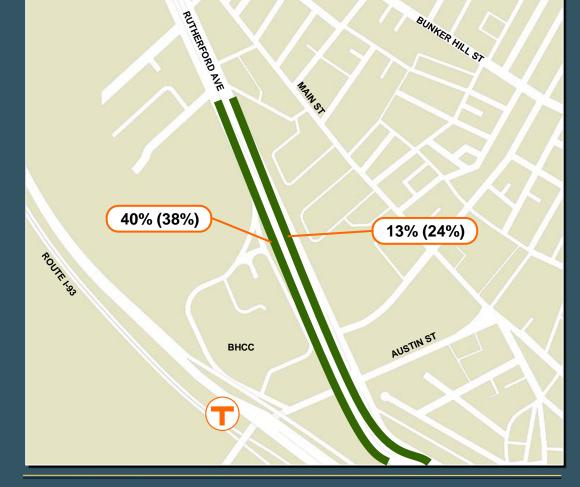
## Existing Roadway Operations - Rutherford Ave. AM (PM) Peak Hour



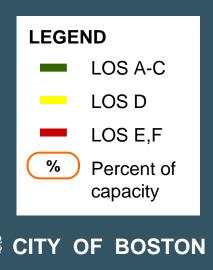


Rutherford Avenue/Sullivan Square Design Project 28 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

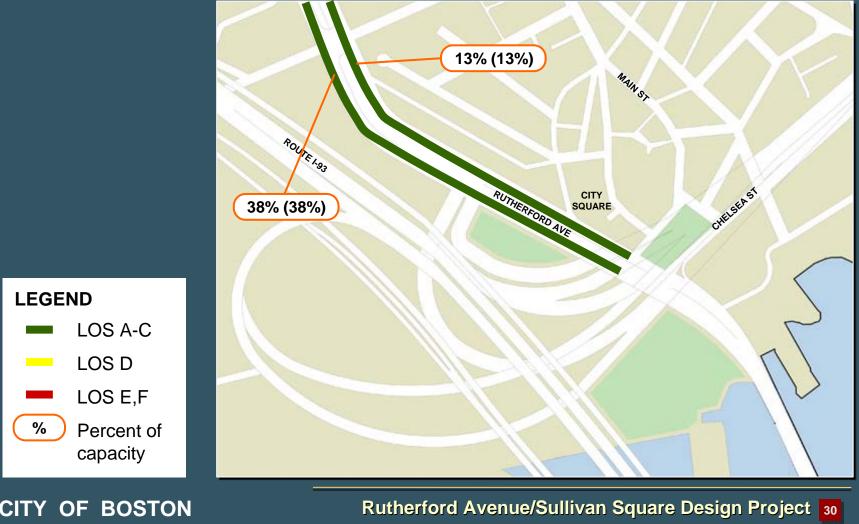
# Existing Roadway Operations - Rutherford Ave.





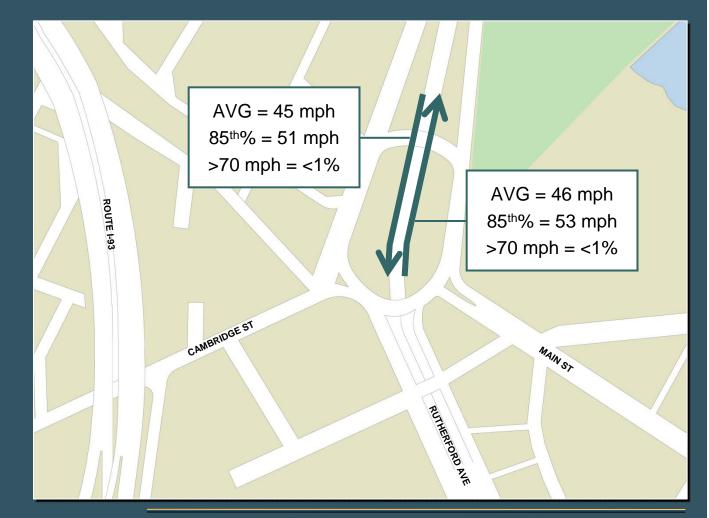


## Existing Roadway Operations - Rutherford Ave. AM (PM) Peak Hour



Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# Vehicle Speeds in Sullivan Square Underpass





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Rutherford Avenue/Sullivan Square Design Project 31 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# Vehicle Safety and Crash History

LEGEND

<5 Crashes

5-10 crashes

>10 crashes

At or above

**Crash Rate** 

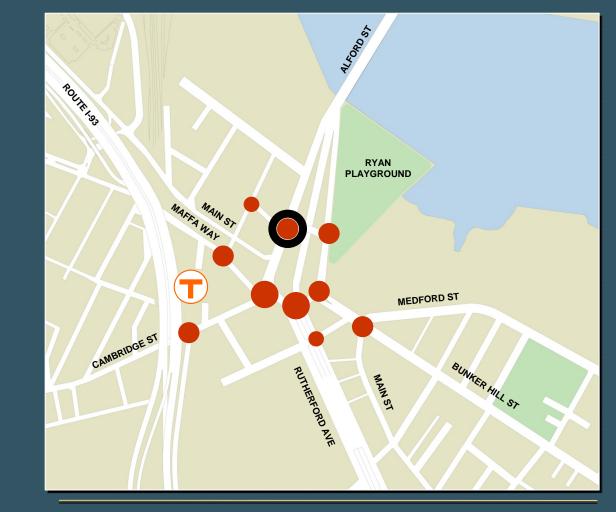
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**MHD** Statewide

per year

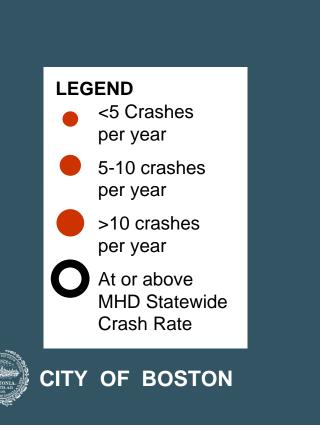
per year

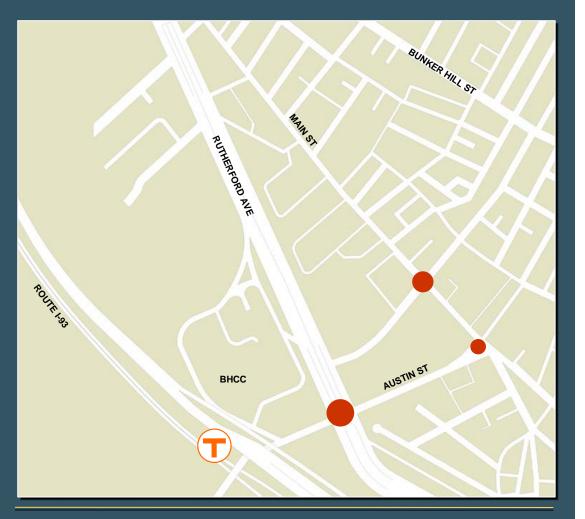
per year



Rutherford Avenue/Sullivan Square Design Project 32 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

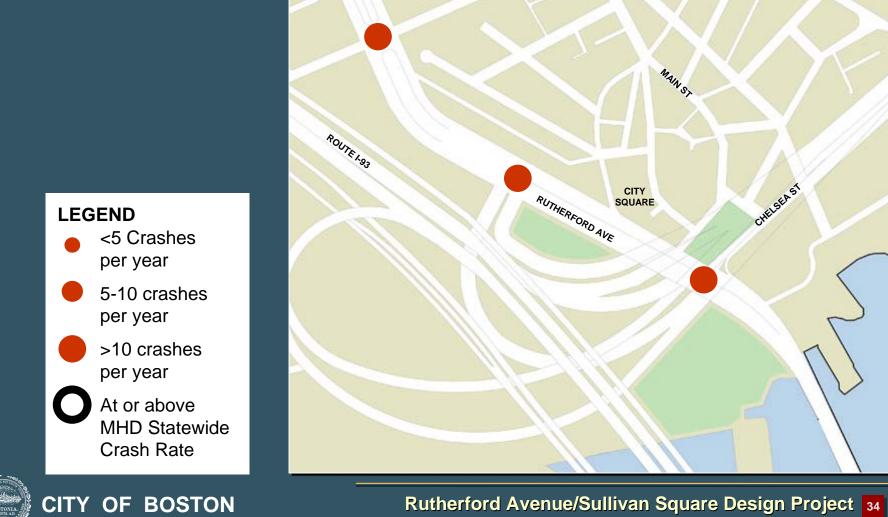
## Vehicle Safety and Crash History





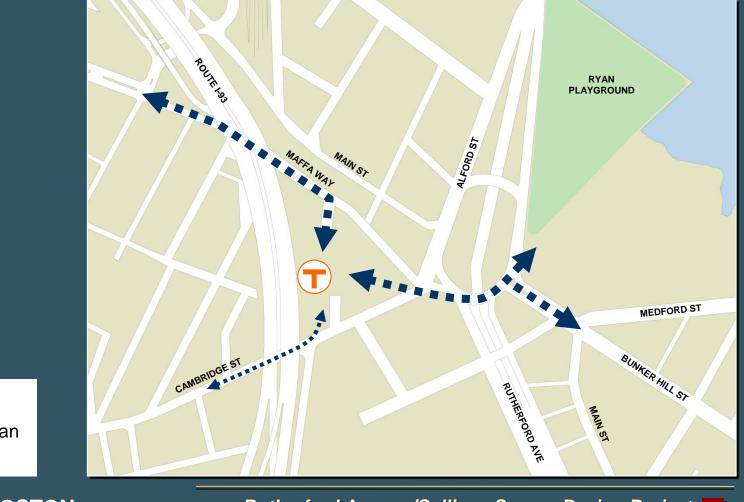
Rutherford Avenue/Sullivan Square Design Project 33 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# Vehicle Safety and Crash History



Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# Existing Pedestrian Patterns



#### LEGEND

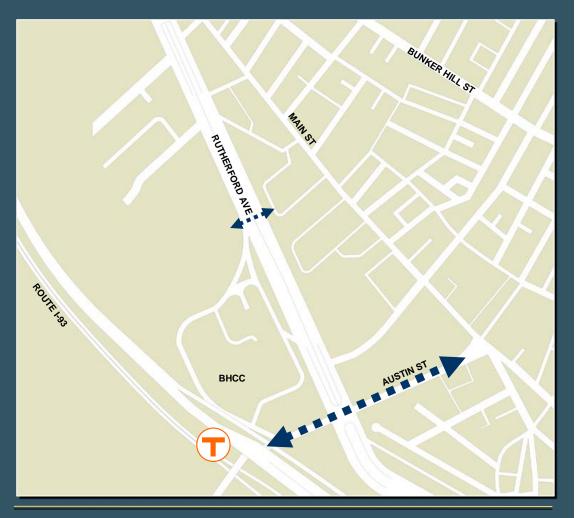
 Pedestrian Activity



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# Existing Pedestrian Patterns



#### LEGEND

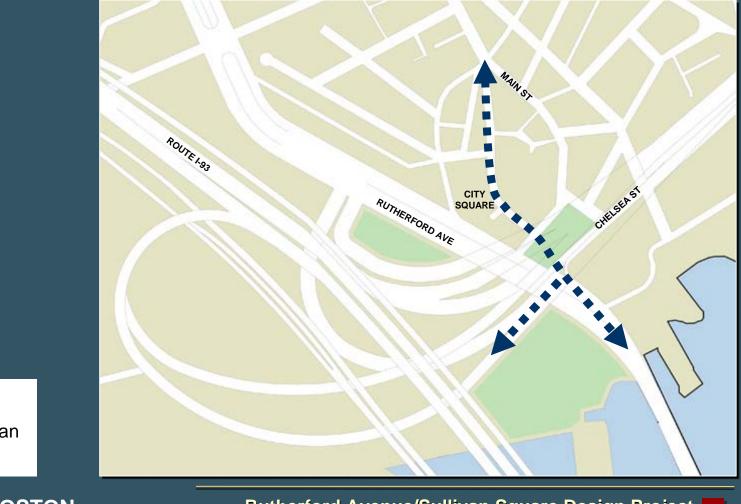
 Pedestrian Activity

BOSTONIA ROSTONIA ROSTONIA ROSTONIA

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Rutherford Avenue/Sullivan Square Design Project 36 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# Existing Pedestrian Patterns



LEGEND

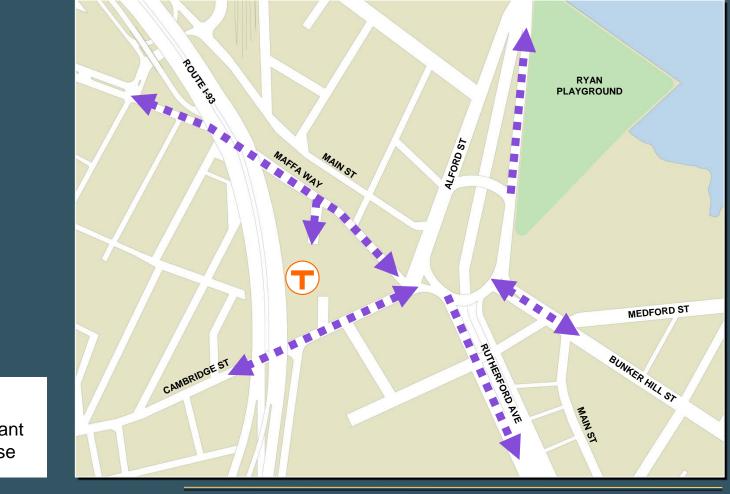
 Pedestrian Activity

POSTONIA Bostonia Bostonia

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Rutherford Avenue/Sullivan Square Design Project 37 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# **Existing Bicycles Patterns**



#### LEGEND

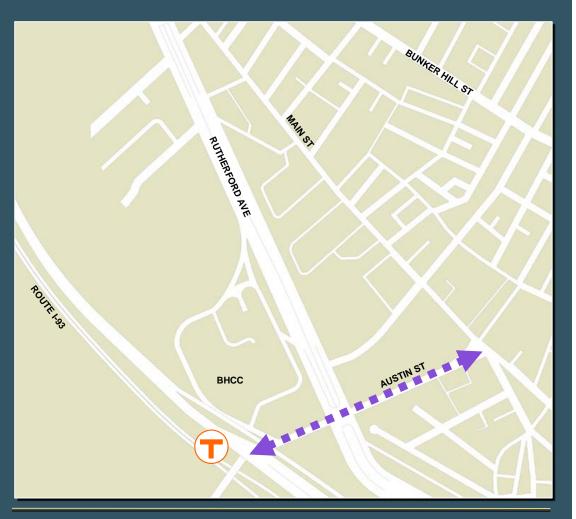
 Predominant Bicycle Use



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Rutherford Avenue/Sullivan Square Design Project 38 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# **Existing Bicycles Patterns**



#### LEGEND

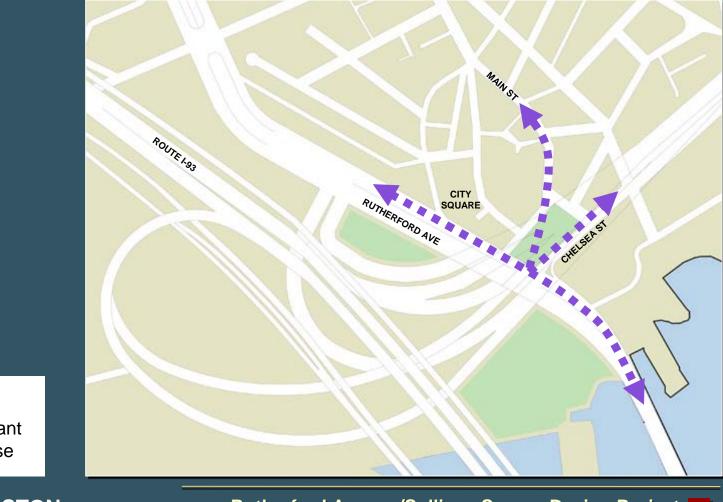
 Predominant Bicycle Use



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Rutherford Avenue/Sullivan Square Design Project 39 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# **Existing Bicycles Patterns**



#### LEGEND

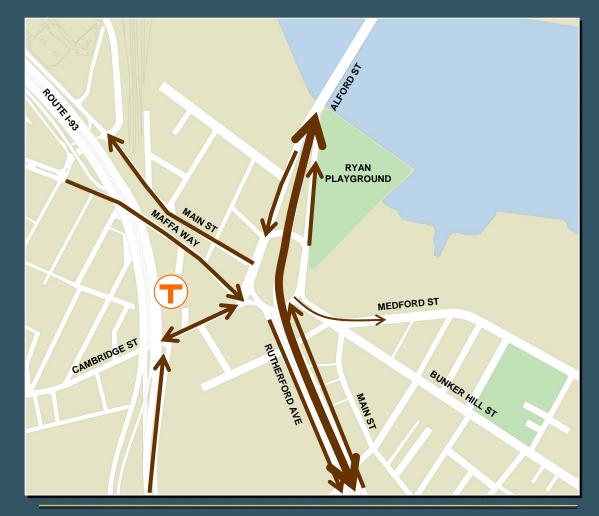
 Predominant Bicycle Use



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Rutherford Avenue/Sullivan Square Design Project 40 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# **Existing Truck Patterns**



#### LEGEND

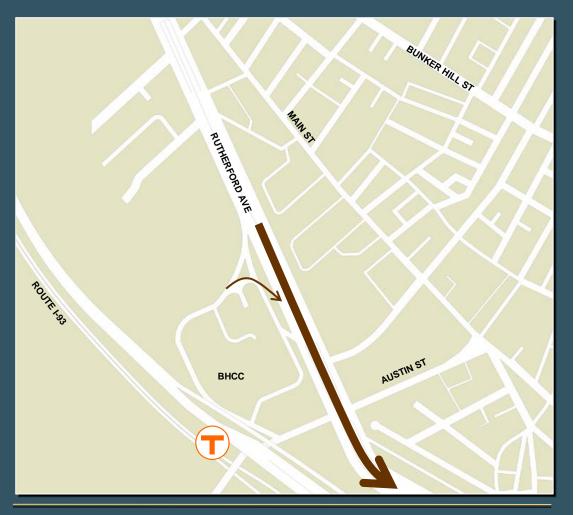
Truck Patterns



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Rutherford Avenue/Sullivan Square Design Project 41 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# **Existing Truck Patterns**



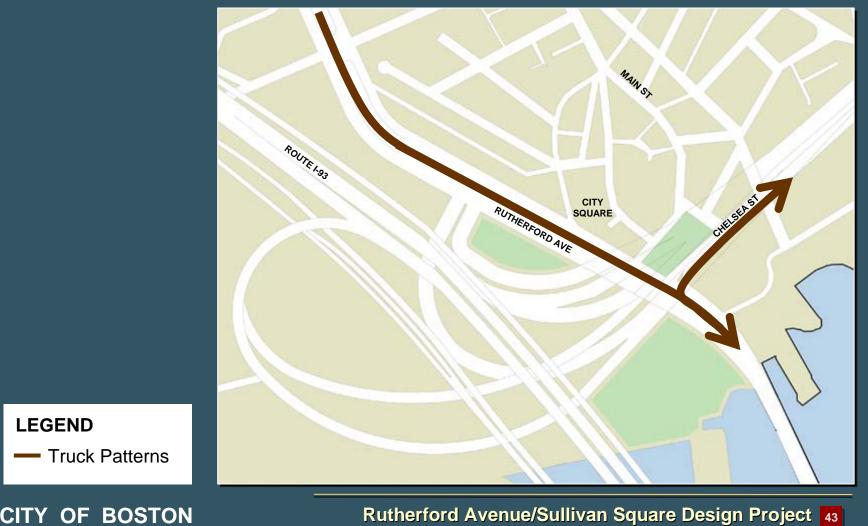
#### LEGEND

Truck Patterns



Rutherford Avenue/Sullivan Square Design Project 42 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# **Existing Truck Patterns**



Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

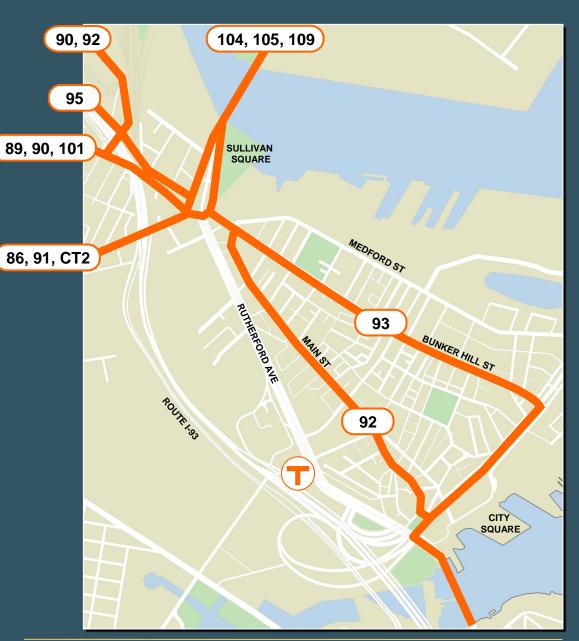
# Existing MBTA Bus Routes

Dail	<u>y Bus</u>	<u>Rider</u>	shir

# 89	3,650
# 91	1,970
# 92	1,500
# 93	<mark>4,650</mark>
# 95	1,700
#101	4,200
#104	3,300
#109	2,700
CT2	1,200



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Rutherford Avenue/Sullivan Square Design Project 44 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# **Existing MBTA Bus Routes**

104, 105, 109 ALFORD ST 90, 92 95 ROUTE 1.93 MAFFA WAY RYAN PLAYGROUND MAIN ST 89, 90, 101 MEDFORD ST CAMBRIDGE ST RUTHERFORD AVE 93 BUNKER HILL ST MAIN ST 86, 87, CT2 92

LEGEND

MBTA Bus Routes



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Rutherford Avenue/Sullivan Square Design Project 45 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe

# Transportation Summary

- 2008 traffic volumes are lower than volumes in 1999 and 2005
- There is excess capacity along Rutherford Avenue
- Traffic operations at Austin St. and City Square are generally good – pedestrian crossings are a challenge
- Sullivan Square Station is an important transit node



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Rutherford Avenue/Sullivan Square Design Project 46 Tetra Tech Rizzo The Cecil Group Brown, Richardson & Rowe