ROUTE 140 TRI-TOWN
(NORTON, MANSFIELD, FOXBOROUGH)
TRANSPORTATION STUDY

February 16, 2017
Public Information Meeting
Study Limits

• From Route 123 in Norton to Leonard Street in Foxborough

• Approximately 8 miles of roadway

• Urban Minor Arterial from Route 123 in Norton to I-495 in Mansfield

• Urban Principal Arterial from I-495 in Mansfield to I-95 in Foxborough

• Urban Minor Arterial from I-95 to Leonard Street
Public Outreach

• Over **1,000** flyers were distributed at town meetings and to businesses and residents along the corridor

• Social Media (Facebook, Twitter)

• Posted on Town and SRPEDD websites

• Public Drop-in Meetings
  • Foxboro (May 16, 2016) / **50** Attendees
  • Norton (May 23, 2016) / **40** Attendees
  • Mansfield (May 24, 2016) / **30** Attendees

• Survey - Survey Monkey yielded over **500** comments

• Press Coverage (Sun Chronicle, Foxborough Reporter)
Survey Questions

**How often do you travel on Route 140?**
- 34% 1-2 times per day
- 34% >2 times per day

**What is generally the average length of your trip / commute in minutes?**
- 35% 5-10 minutes
- 40% 10-20 minutes
- 6% 45 minutes or longer

**What is generally the purpose of your trip?**
1. Work
2. Shopping
3. Recreation or other
4. Medical

**Why do you avoid this area?**
- Delay, Unsafe Travel Conditions, and Special Events
Survey Questions

How often do you seek alternate routes to avoid this area?
44% Occasionally 1-2 times per week 28% Frequently 3-5 times per week 28% Never

In which town or zip code do you generally start your trip?
44% Foxborough 26% Mansfield 17% Norton Scituate, Hyde Park, Walpole, Cranston RI, Sharon, and Nantucket

What town or zip code is generally your destination?
36% Foxborough 40% Mansfield 9% Norton Warwick RI, Boston Area, Providence RI, Sharon, Needham, Scituate, Norfolk, Nantucket
Common Concerns

1. Traffic & Congestion due to ongoing and future development

2. Safety concerns at signalized intersections and with left turns onto Route 140 from uncontrolled intersections

3. Lack of multi-modal accommodations on most of the corridor including the need for bus turnouts
Concerns in Norton

Lack of Pedestrian and Bicycle Infrastructure

Speeding

Route 140 & Route 123

Route 140 & Great Woods Marketplace / Roche Bros Plaza

High number of driveways from south of Norton Estates to the Mansfield TL

Gridlock conditions during Xfinity Events
Routes 140 & 123

LOS E / Average Delay 62.8 secs
ACC/MEV 1.05 (.76 Average)
EPDO 16.0 (15.0 Average)

**Issues:**
Queueing & Long Delays
Offset Intersection
Freight Movements
Route 123 & Howard Street
Route 140 & Greatwoods Marketplace

**Issues:**
- Lack of Bicycle/Pedestrian Infrastructure
- Speeding
- **Heavy Volumes** (17,500) Volumes increase during Xfinity Events

**Northern Driveway**
Difficulty Making Left Turns out of due to sight distance issues / curve

**Southern Driveway**
Difficulty Making Left Turns out of due to sight distance issues / curve

SRPEDD 2005 Study recommended Right In / Right Out Only at Southern Driveway
**Route 140 from Norton Estates to Mansfield Town Line**

**Issues:**
- Lack of Bicycle and Pedestrian Infrastructure
- High Volumes
- Speeding
- Access Management
  - Parking on private properties and access difficulties during Xfinity Events
  - Development continues to increase access points
Concerns in Mansfield

Speeding

Bicycle & Pedestrian Cross Access

I-495 & Route 140 Area

Signalized Intersections:
Route 140 & School Street
Route 140 & Norfolk Street
Route 140 & West Street
Route 140 & Route 106
Route 140 & I-495 Area

1. Unnecessary traffic control for northbound through movements at South Main Street Intersection
2. Lane Drop Northbound
3. Lane Drop Southbound
4. Sharpness of Curve
5. Addition of Southbound Ramp
Route 140 & School Street

LOS E PM Peak/ Average Delay per vehicle 58.3 seconds
53 Crashes (2013-2015)
ACC/MEV 1.18 (.76 Average)
EPDO 31.0 (15.0 Average)

**Issues:**

**Speeding**

**Signal Operations/Lane Utilization**

Placement of Signal Heads on Route 140 NB approach

School St Left Turns “Lead/Lag” Timing Causing Conflict

School St Center Left EB Lane being utilized as through-lane

**Right Turn Crashes at Channelized Queue**
Route 140 & Norfolk Street

LOS D PM Peak/ Average Delay per vehicle 51.2 seconds
.46 ACC/MEV (.76 Average)
EPDO 12.7 (15.0 Average)

Issues:
Speeding
Route 140 NB Left turns, Detection has been reported as malfunctioning
Eastbound Right Rear-End Crashes
Route 140 & West Street

LOS B PM Peak/ Average Delay per vehicle 19.4 seconds
18 Crashes (2013-2015)
.67 ACC/MEV (.76 Average)
EPDO 11.3 (15.0 Average)

Issues:
Right turn crashes at channelized queue
West Street eastbound, detection has been reported to be malfunctioning
Pedestrian phase has been reported to be malfunctioning
Route 140 & Route 106

LOS F PM Peak/ Average Delay per vehicle >120 seconds
42 Crashes (2013-2015)
1.22 ACC/MEV (.76 Average)
EPDO 30 (15.0 Average)

Issues:
Unsafe Crosswalk features - Layout and Lack of Refuge Area
NB Left Crashes vs SB Through Crashes due to heavy left volume
SB Left turning vehicles running light due to frustration
Extensive queueing on Route 106 westbound due to MBTA traffic
Visibility of Signals
Concerns in Foxborough

**Speeds**

**Lack of Bicycle and Pedestrian Infrastructure**

*Intersections:*

- Route 140 & Forbes Boulevard
- Route 140 & Fisher Street
- Route 140 & I-95 Interchange
- Route 140 & Walnut Street
- Route 140 & Foxborough Plaza
- Route 140 & Central Street
- Route 140 & Charter School Access
Route 140 & Forbes Blvd

LOS D PM Peak/ Average Delay per vehicle 36 seconds
22 Crashes (2014-2016)
ACC/MEV .78 (.76 Average)
EPDO 29 (15.0 Average)

Issues:
Speeding
High Volumes due to Cabot Business Park
Right turn crashes in the channelized queue
EB Queueing past intersection delaying EB through approach
Future Development – Hotel (139 Rooms) & Starbucks
Route 140 & Fisher Street

LOS B PM Peak/ Average Delay per vehicle 15.7 seconds
17 Crashes (2014-2016)
.62 ACC/MEV (.76 Average)
EPDO 11 (15.0 Average)

Issues:
Future Development – 248 Apartments
Route 140 & I-95 Interchange

**Issues:**

Motorists coming off the Interchange

Speeding on ramps, causing heavy vehicle rollover

Lack of merge area onto Route 140
Route 140 & Walnut Street

2-Way Stop Sign Controlled

LOS F PM Peak on Walnut Street approaches

13 Crashes (2014-2016)

.56 ACC/MEV (.76 Average)

EPDO 7.24 (15.0 Average)

Issues:

Geometry

Speeding due to merge off of I-95

Westbound Sight Distance

Need for a Signal – Meets Warrants

Housing Authority Project
Route 140 & Foxborough Plaza

27 crashes related to plaza driveways

**Issues:**

Plaza contains 4 Driveways

Internal circulation leads to driveway choice

**Sight Distance Issues** - Curve in road north of Plaza and bushes along the property

**Minimal opportunity to exit due to high volumes, speeding and through traffic passing left turning stopped vehicles**

**Future Development** – Property on west side of area is only half occupied
Route 140 & Central Street

Stop sign controlled intersection
20 crashes (2014-2016) 33% Injury
.89 ACC/MEV (.76 Average)
EPDO 15.63 (15.0 Average)

Issues:
Left turns off of Central Street are difficult
15+ vehicles queue during peak periods
Large residential area east of the intersection
Route 140 & Charter School Access

**Issues:**
Congested traffic during school arrival & dismissal times, motorists avoid the area
Motorists seek alternate routes and cut-thrus

**Recent Improvements –**
Designated School Zone with signage

Charter School Study by CTPS recommended a new signalized driveway aligned with Central.

Pare Corporation working on traffic study for Charter School Expansion Project.
Next Steps

• Draft Existing Conditions Report (March 2017)
• Future Assessment of Surrounding Land Use (Early 2017)
• Assessment of Potential Development and Impacts to Transportation (Early 2017)
• Continue to work with the communities on assessing development potential (Ongoing)
• Develop Recommendations (Ongoing)
• Finalize Report (Summer 2017)
• Present Findings to Working Group and Public (Summer/Fall 2017)
Lisa Estrela-Pedro
Director of Highway Planning
88 Broadway
Taunton, MA 02780
(508) 824-1367 x236
Iestrela@srpedd.org
www.srpedd.org
www.facebook.com/SRPEDD