Somerville Ave Utility and Streetscape Improvements

Public Meeting

Mayor Joseph A. Curtatone
Alderman Maryann Heuston
Alderman Bob McWatters

Presented by
Jessica Fosbrook, PE, ENV SP, Project Manager, Capital Projects & Planning
Brad Rawson, Director of Transportation and Infrastructure, OSPCD
Rich Raiche, Director of Engineering, Capital Projects & Planning

May 18th, 2017, Argenziano School Cafeteria
What We’re Covering Tonight

Union Square Neighborhood Plan

Project Need

Project Scope

Integration with Other Projects

Construction Overview

Questions
What We’re Covering Tonight

- Union Square Neighborhood Plan
- Project Need
- Project Scope
- Integration with Other Projects
- Construction Overview
- Questions
Union Square Neighborhood Plan

- 2 year public process
- Infrastructure needs incorporated
- Pedestrian, bike, bus users prioritized
Fiscal Sustainability Goals

- Growth in the commercial tax base mitigates increases to residential taxes as state aid decreased.
- Commercial growth also brings jobs. There were just over 14% more jobs in Somerville in 2015 than in 2001.
- Commercial growth brings people into the City who patronize local businesses.
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Construction Impacts

Questions
Storm drains, sanitary sewers and combined systems

Credit: Toole Design Group
Union Square - 60% of Flows

- Uphill / Up-pipe areas all contribute to flooding
Old System

51-inch Brick (Mostly) Separate Sewer

77-inch Concrete (Mostly) Separate Sewer

36-inch Brick Combined Sewers

66-inch Brick Combined Sewer

Bow St

Somerville Ave

Washington St

Somerville Ave

66-inch Brick Combined Sewer
More Background on Infrastructure Needs

- Infrastructure Needs presentation - 
  Board of Aldermen Committee Meeting April 27th, 2017 
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Questions
Project Extents

- Stormwater Box Culvert
- Streetscape Improvements
- Utility Upgrades – entire project area
- Streetscape Improvements – lighter touch
Utilities
Box Culvert and Utilities - Cross-Section

- New 16" Water Main
- New 14' by 6' Stormwater Box Culvert
- New Communications Duct Bank
- Line Existing 39" by 26" Brick Sanitary Sewer
- Line Existing 72" Brick Combined Sewer
- New 12" Water Main
- Line Existing 12" Clay Sanitary Sewer
- Existing Communications, Electric, and Gas
Streetscape Enhancements
Bicycling for All Ages & All Abilities

Photo Credit: Toole Design Group
Pedestrian and Bicycle Facilities

Photo Credit: Google Maps
Stormwater Green Infrastructure

Would capture 25% of runoff from project area average sized storms

Porous asphalt, landscaping, and more would add 0.7 acres of permeable space
Enhanced Tree Growth

Photo Credit: DeepRoot

Photo Credit: DeepRoot

Photo Credit: DeepRoot
Curbside Amenities

Image Credit: Toole Design Group for the MassDOT Separated Bike Lane Guide.

Floating bus stops

Parking analysis completed

Image Credit: Toole Design Group
Streetscape - Typical Section

- 11' Travel Lanes
- 7' Parking Lane (where space available)
- 6.5' Fully Protected Bike Lanes
- Stormwater Green Infrastructure
- Silva Cells
- 51 New Trees

- Typical Section Diagram with street elements and street furniture
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Related Infrastructure Projects

- Nunziato Field
- GLX Connection
- Somerville Ave
Related Streetscape Projects

- Transportation, Streetscape Improvements
- Somerville Ave Utility and Streetscape Improvements
- Early Action Project
- Union Square Plaza
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Estimated construction timeframe:
• 3 full construction seasons (3 years if we start in spring time)
• 100% Design completed, BoA vote anticipated

Estimated construction cost:
• $50,350,000 (currently working to finalize estimate)
• MassWorks as partner will save the City $13,000,000
Future Meetings
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Questions
Questions?

Contact Info:
Jessica Fosbrook, Project Manager – Utilities, Capital Projects & Planning
jfosbrook@somervillema.gov
617-625-6600 ext. 5124

Website:
http://www.somervillema.gov/unionsquareinfrastructure