Spring Hill Sewer Separation

Community Meeting – Design Overview and Streetscape Workshop

Mayor Joseph A. Curtatone Councilor Ben Ewen-Campen Councilor Mark Niedergang

Feb 3rd, 2020



Introduction

What we're covering tonight

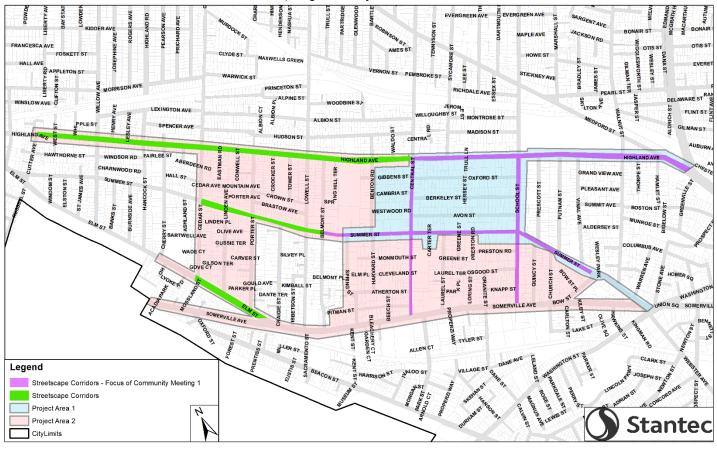
- Introductions
- Project overview
- Streetscape improvements
- Breakout activity
 - Central St (Somerville Ave to Highland Ave)
 - Highland Avenue (Central St to McGrath Hwy)
 - School Street (Somerville Ave to Highland Ave)
 - Summer Street (Belmont St to Bow St)
 - Sewer separation and infrastructure upgrades

Project Guiding Principles and Goals SOMERVISION2040 Sustainability • Diversity • Opportunity • Connectivity • Community



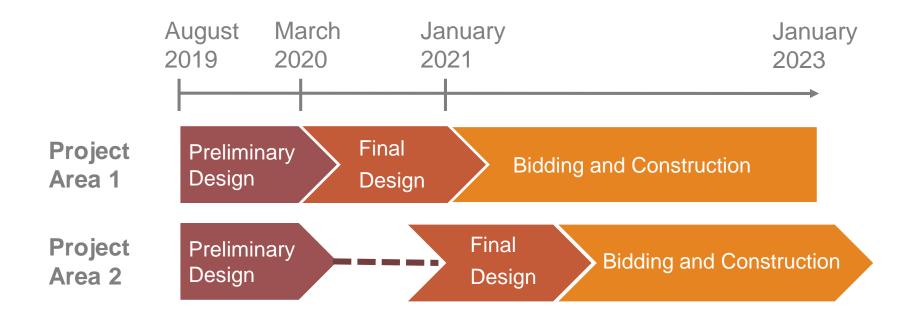


Project Limits

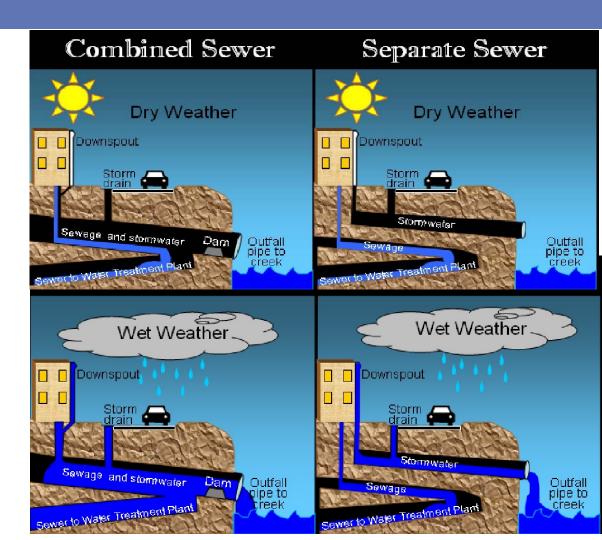


Spring Hill Project Areas

Schedule



Storm drains, sanitary sewers and combined systems





Requires suite of targeted control measures



Union Square Program locus



Redesigning the sub surface

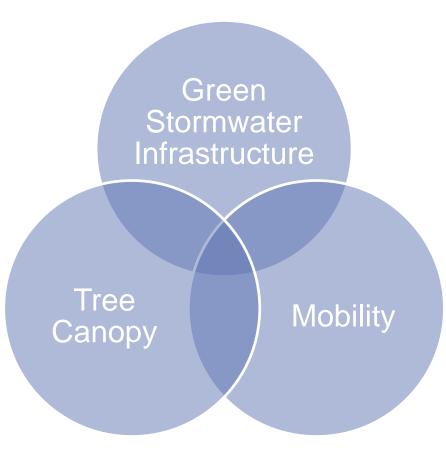
- Sewer rehabilitation (separation and conveyance benefits)
- Water main upgrades
- Coordination with gas main, other utility upgrades





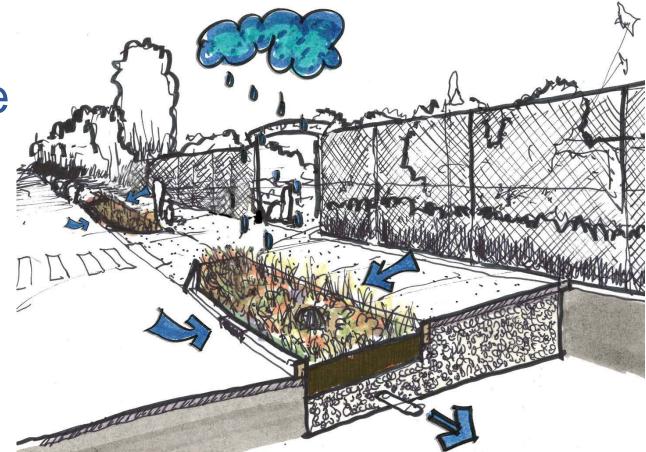
Streetscape Improvements

Streetscape Factors



Green Stormwater Infrastructure (GSI)

- Definition
- City Goals
- Co-benefits



Stormwater Planter

- Benefits
- Design
 Considerations
- Installation and Cost



Bumpout/ Curb Extension





Tree Canopy

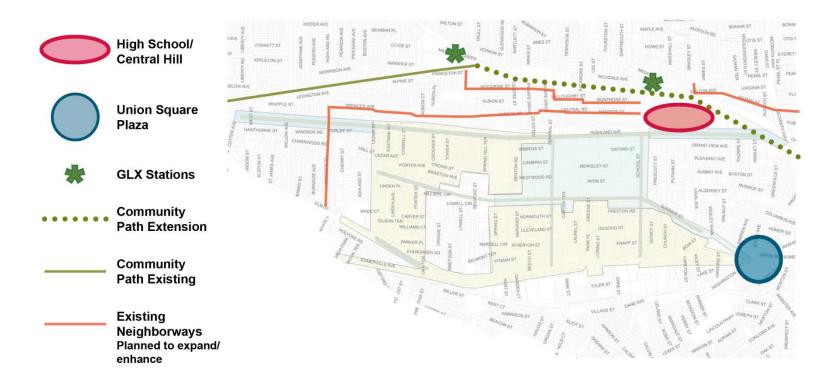
- Urban Forestry guiding principles and goals
 - Proactively manage and expand the City's public tree canopy
 - Harness maximum ecosystem services in order to:
 - reduce and prevent air and water pollution
 - cool temperatures and decrease energy demands
 - support wildlife habitat
 - increase value of businesses and residences
 - contribute to safer streets

Areas of Tree Concentration

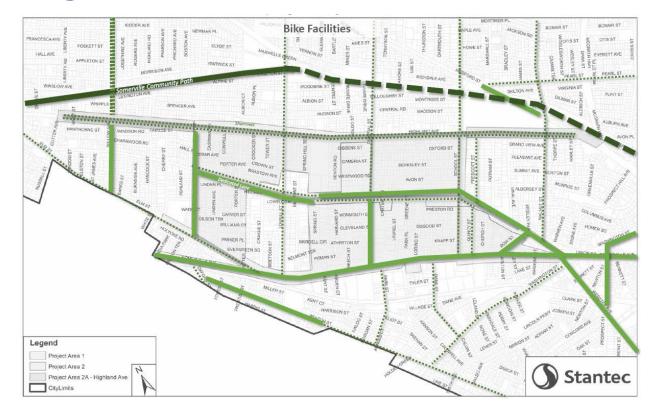


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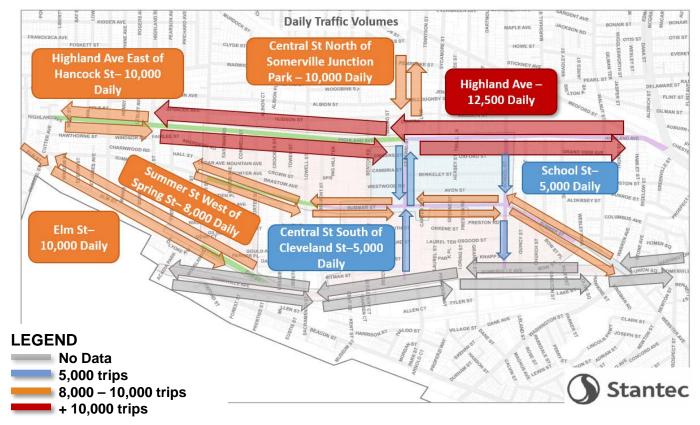
Mobility In and Around Spring Hill



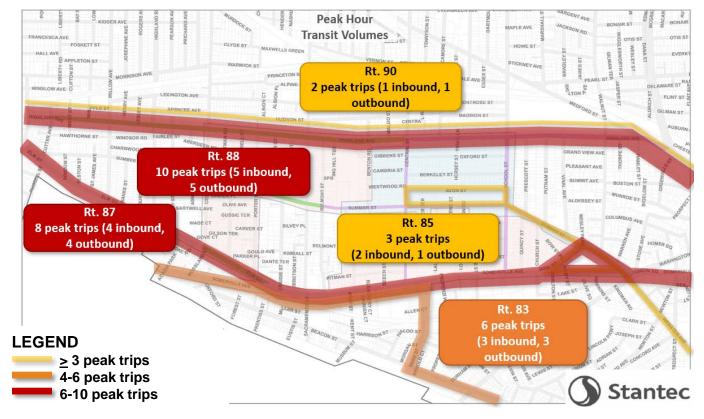
Existing Bike Facilities - Mobility



Existing Traffic Volumes - Mobility



Existing Peak Hour Transit Volumes - Mobility

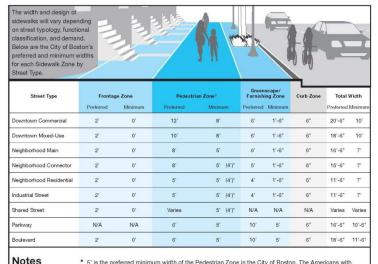


Sharing the Road – Things to Consider



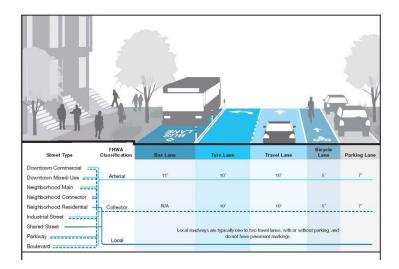
Sharing the Road – Things to Consider

Preferred and Minimum Widths for Sidewalk Zones



5' is the preferred minimum width of the Pedestrian Zone in the City of Boston. The Americans with Disabilities Act (ADA) minimum 4' wide Pedestrian Zone can be applied using engineering judgement when reforting 7' wide existing sidewalks where widening is not feasible.

Minimum Widths for Roadway Lanes



From Boston Complete Streets Guidelines

Possible Improvements

Bike Improvements

- Raised cycle track (one- or two-way)
- Buffered / parking-protected street-level cycle track (one- or two-way)
- "Copenhagen" style half-raised bike lane

Bus Improvements

- Transit-friendly lane (minimum 11')
- Bus pull-out
- In-lane / floating bus stop

Walking Improvements

- Curb extensions (bump-outs)
- Raised crossings
- Crossing island
- Multi-use sidewalk

Traffic Improvements

- Shared street markings (sharrows)
- Curb extensions (bump-outs)
- Parking / Travel chicane















Break Out Activities

Breakout Session

- 1. Streets needs and wants
 - What isn't working on this street? What improvements could it use?
- 2. Function of the street
 - To which users is this street oriented? Should it change?
- 3. Potential street changes
 - Is the current cross-section of this street meeting its desired function? What changes can we make?

Existing Cross Sections

Summer Street, Belmont Street to Bow Street

