FIRST HILL STREETCAR

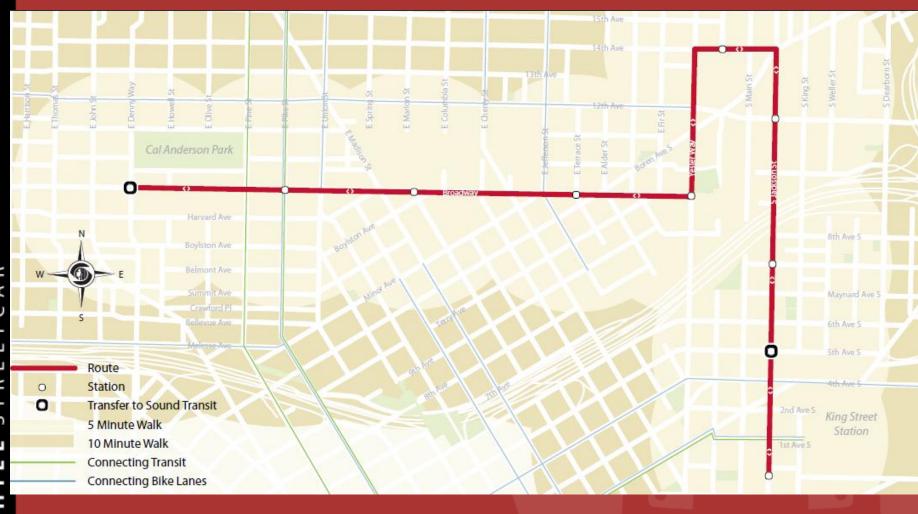


First Hill Streetcar Project Preliminary Engineer/Schematic Design Review

Seattle Design Commission

April 7, 2011

Project Overview & Context

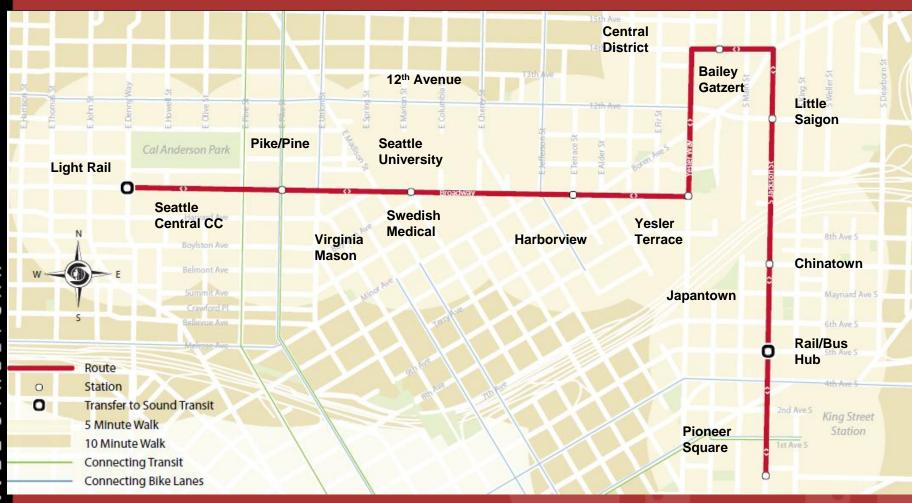


FIRST HILL STREETCA

Project Overview & Context

- Modern Streetcar Project Providing Regional Transit Connections & Center City Circulation
- Busy Arterial Environment
- Diverse Neighborhoods/Historic Districts
- Major Institutions/Small Businesses

Project Overview & Context



FIRST HILL STREETCA

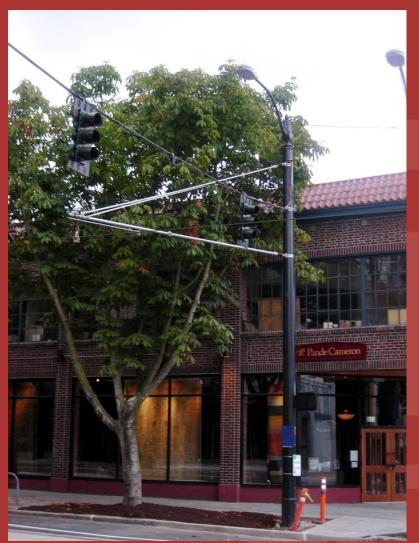
Scope Overview

- 2.5 Miles of Embedded Track & Roadway Improvements
- 10 Stops—Mix of Side & Center Platforms, with Art Program/Landscape
- Overhead Contact System
- Traffic Signals & Train Signals
- Maintenance Facility
- Utility Relocations—Primarily Water

Trackway & Platform

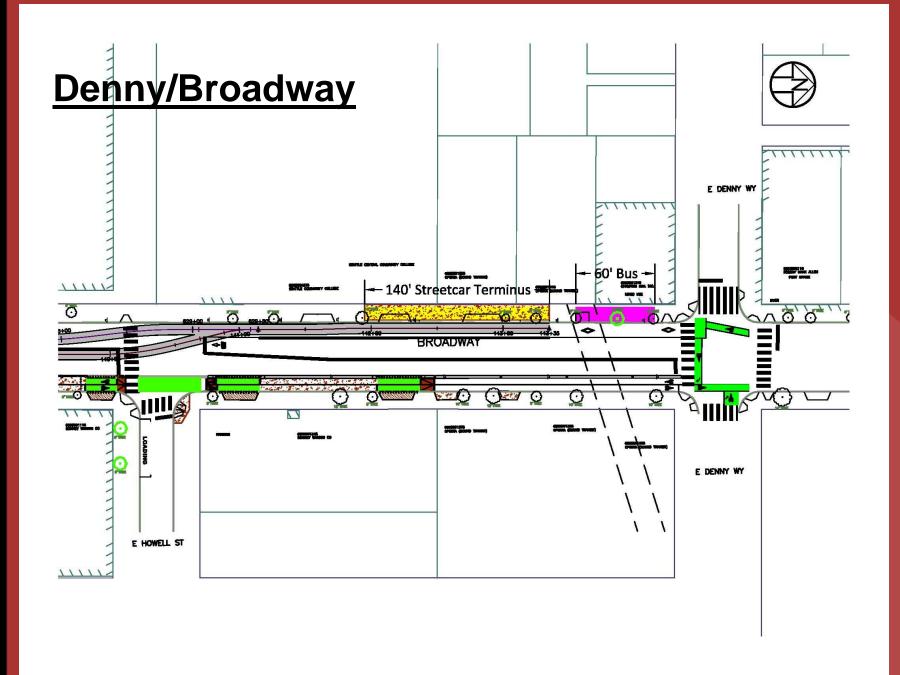


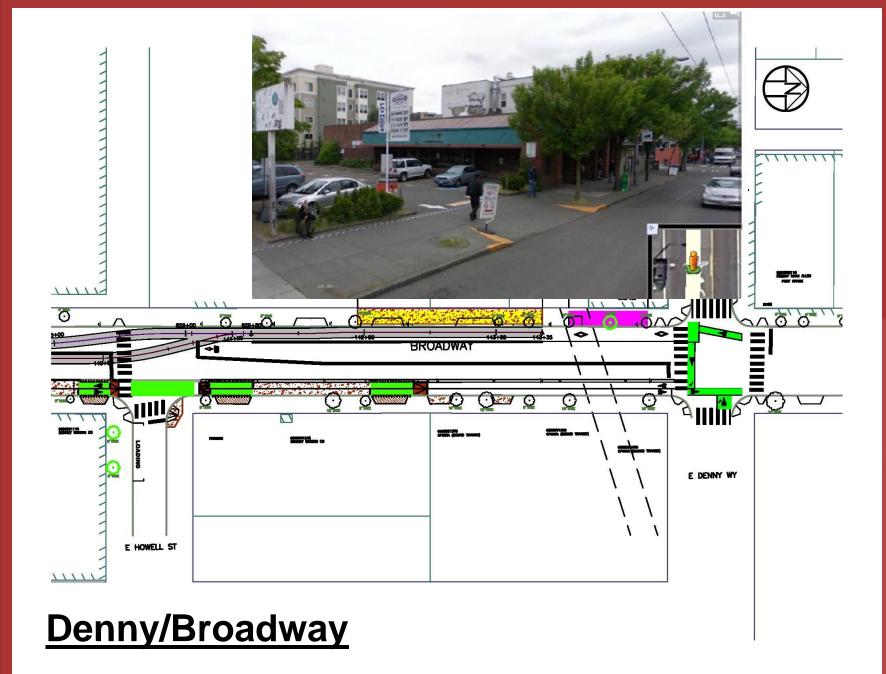
Overhead Contact System & Signals

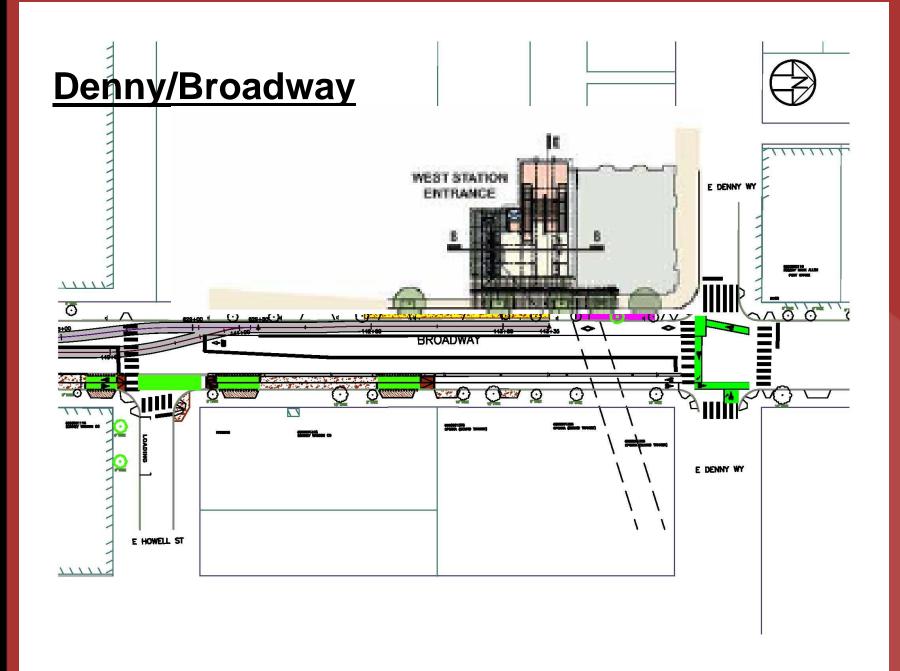


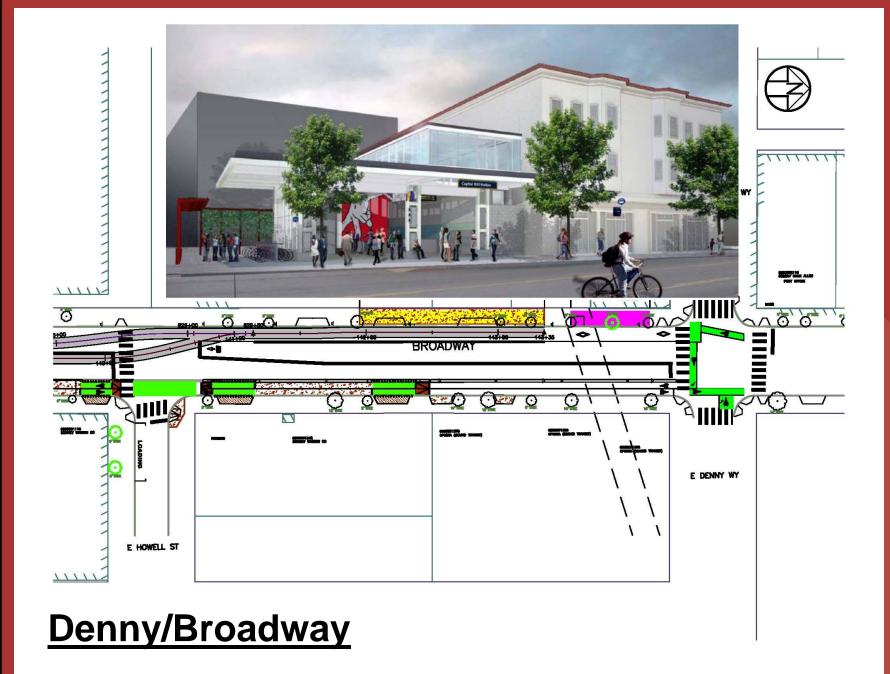
Station Plans

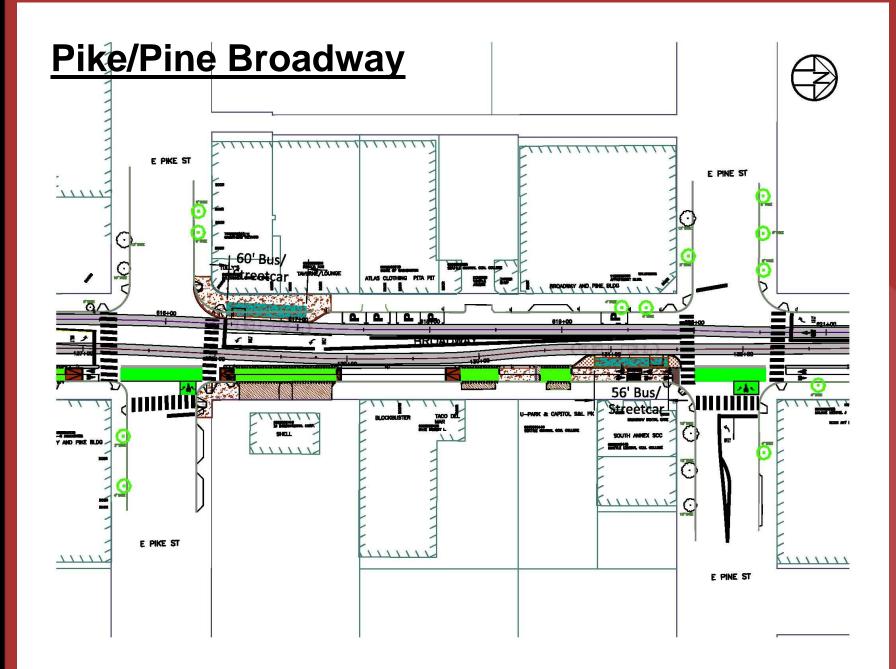


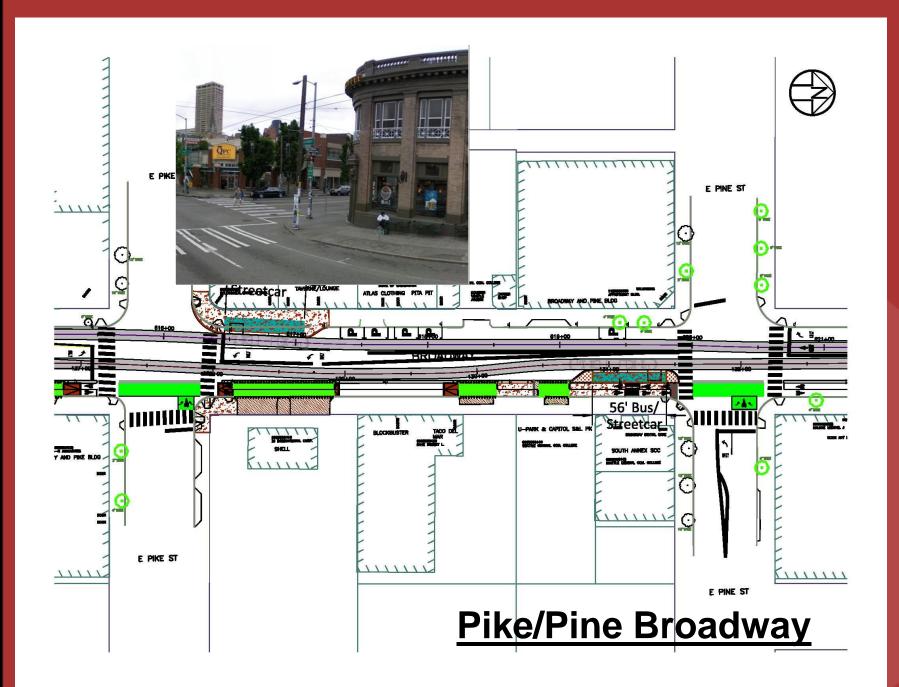


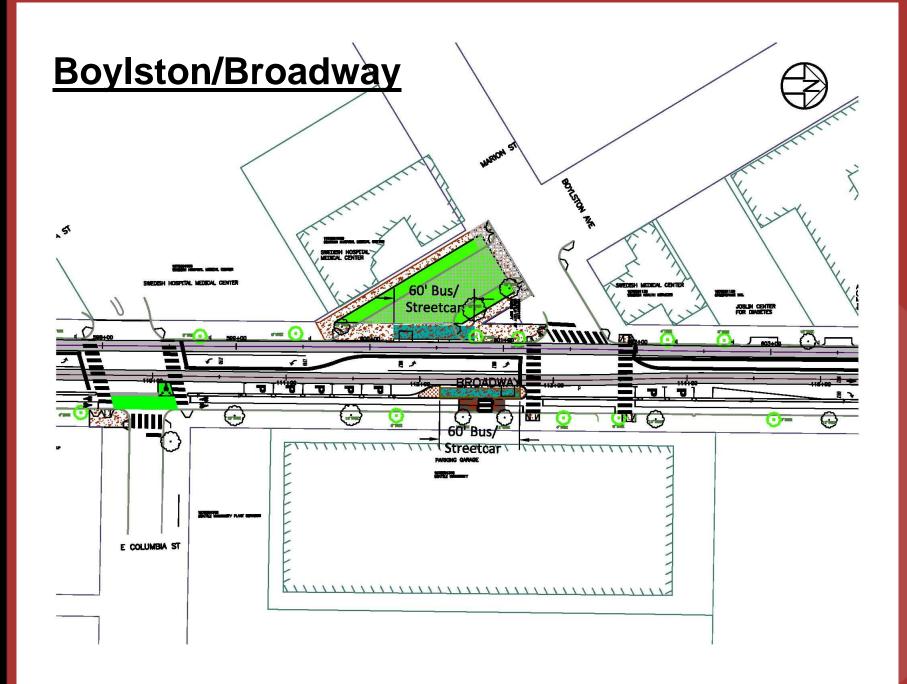


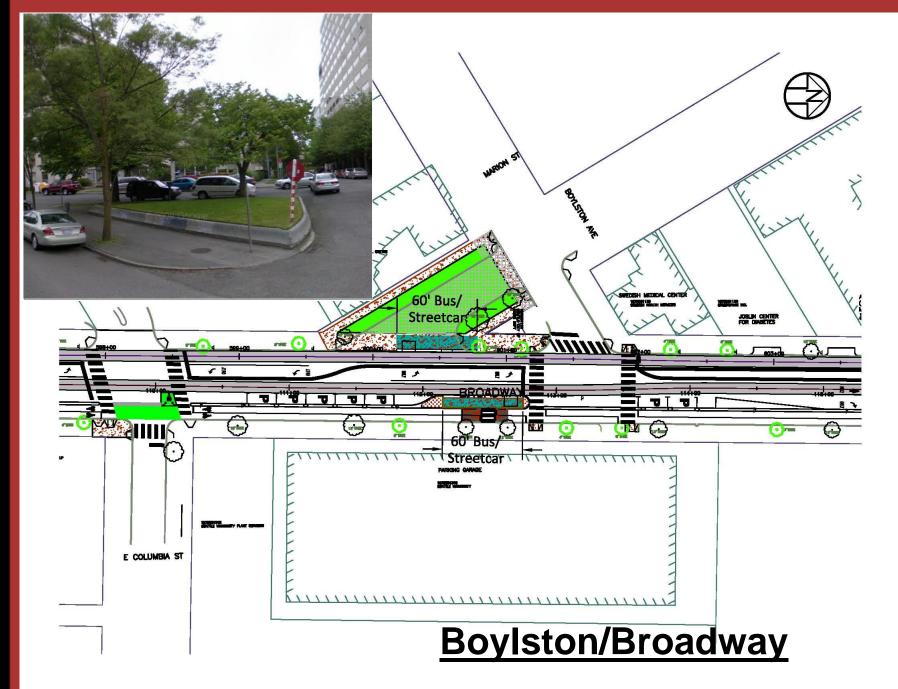












Streetcar Plazas

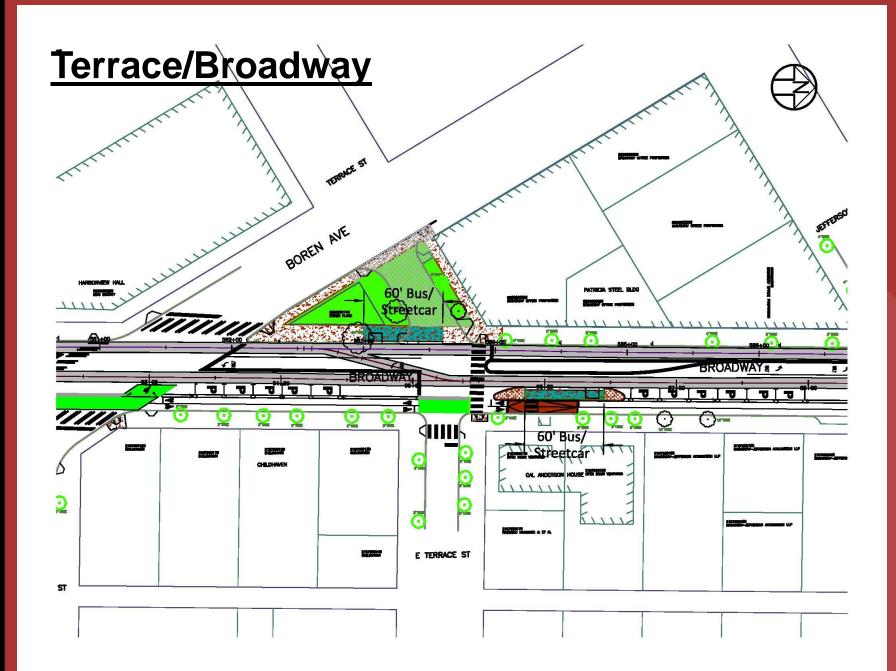


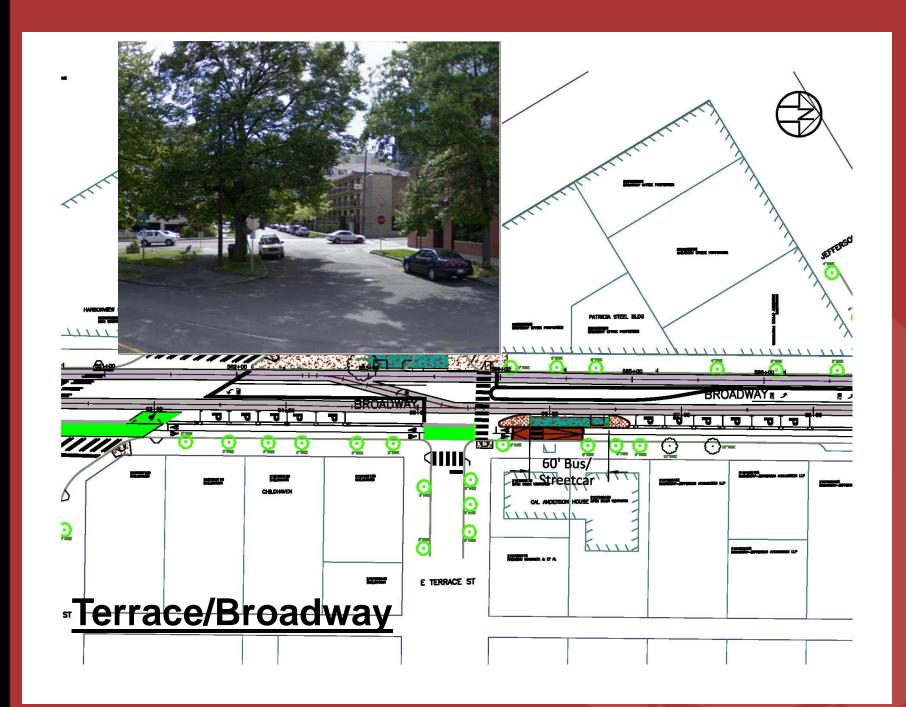
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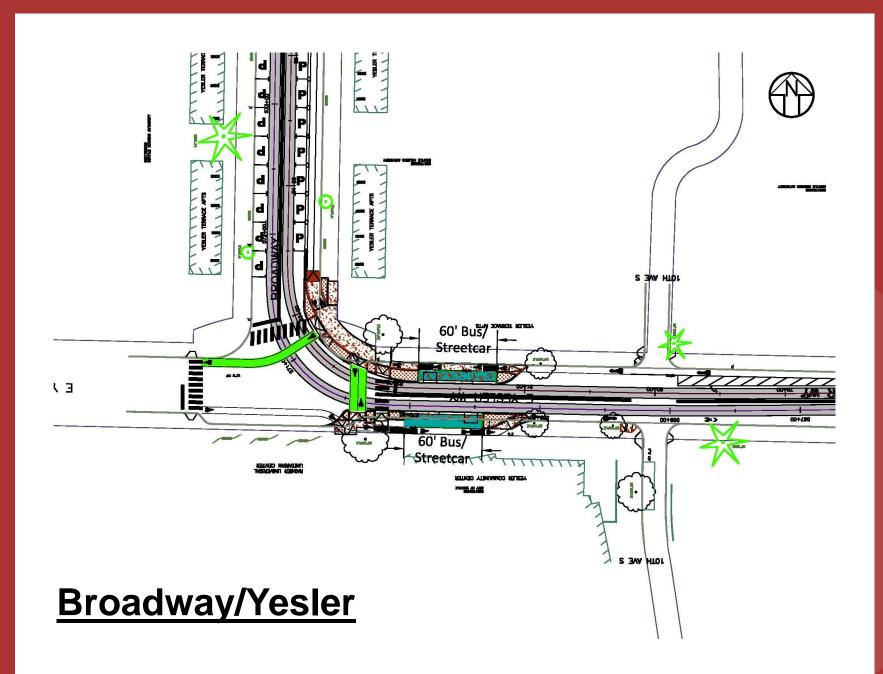
Streetcar Plazas: Precedents

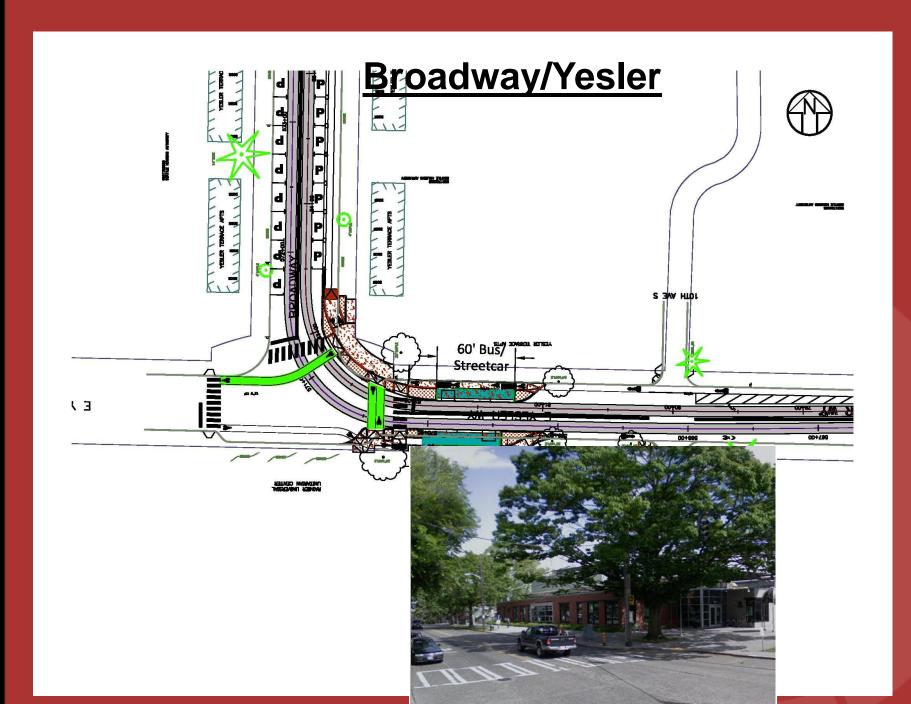
McGraw Square

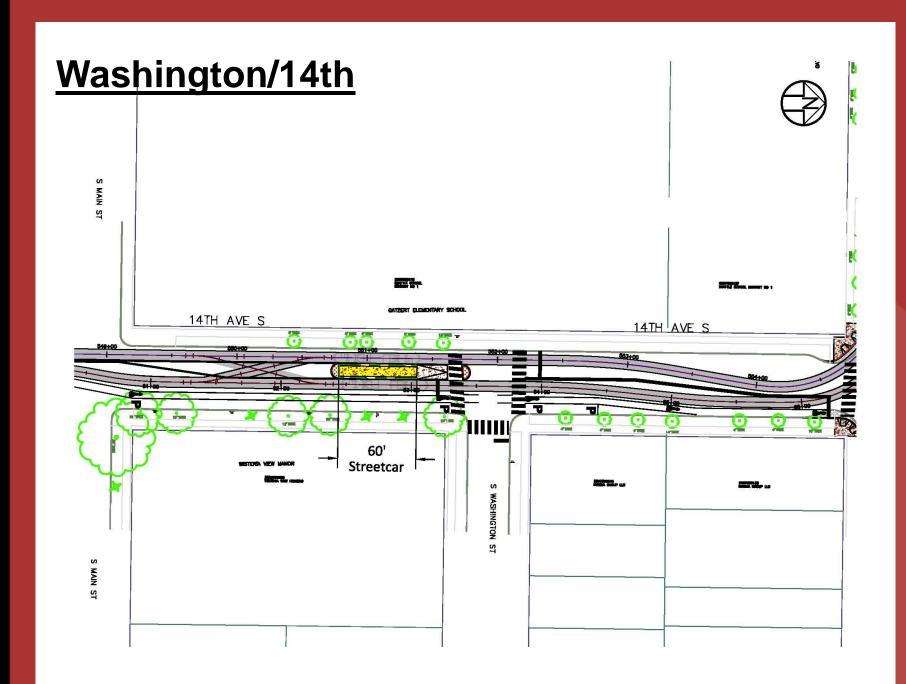


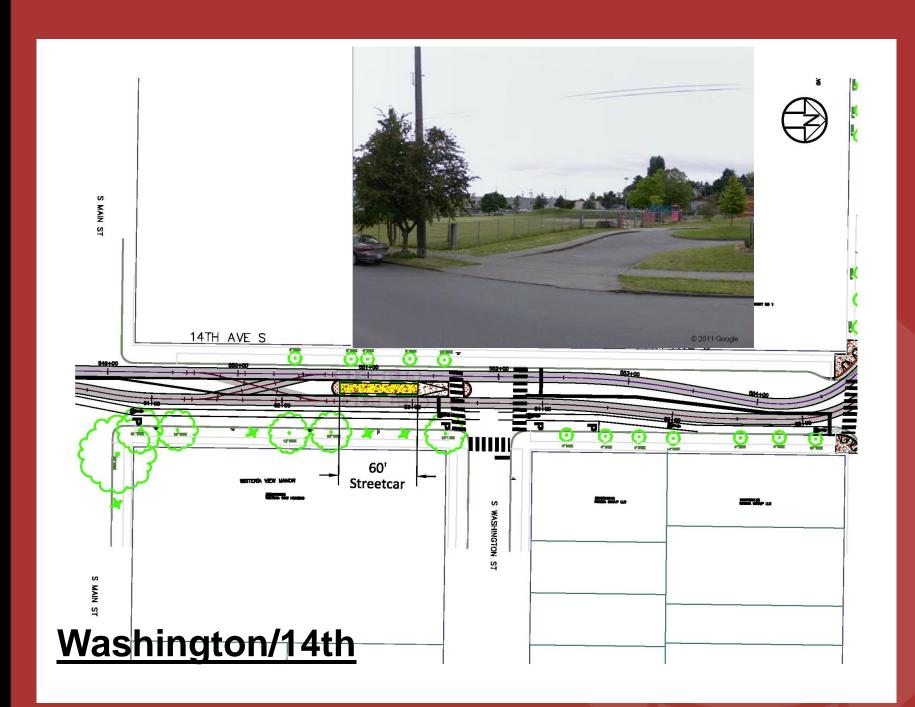


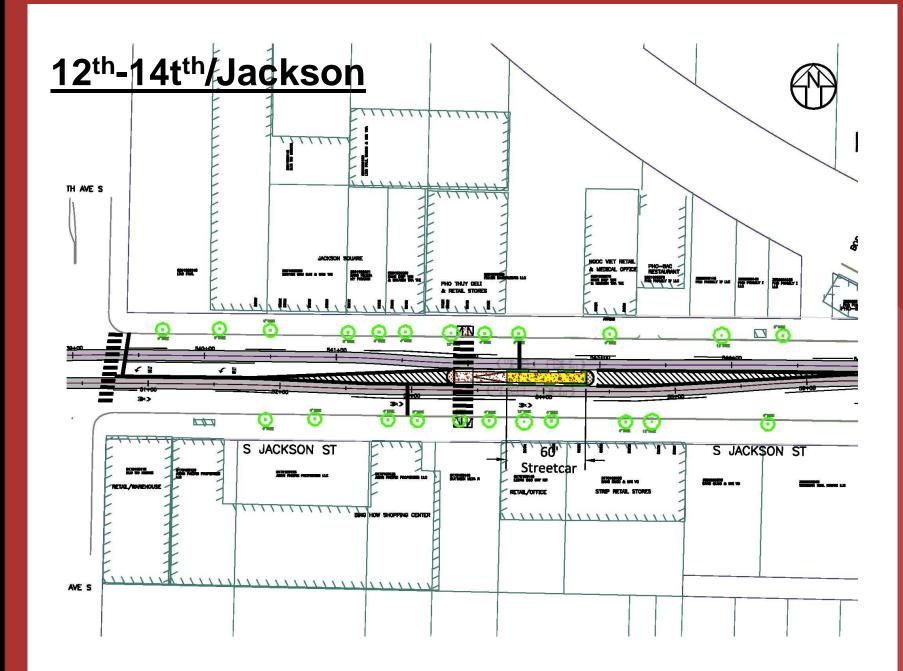


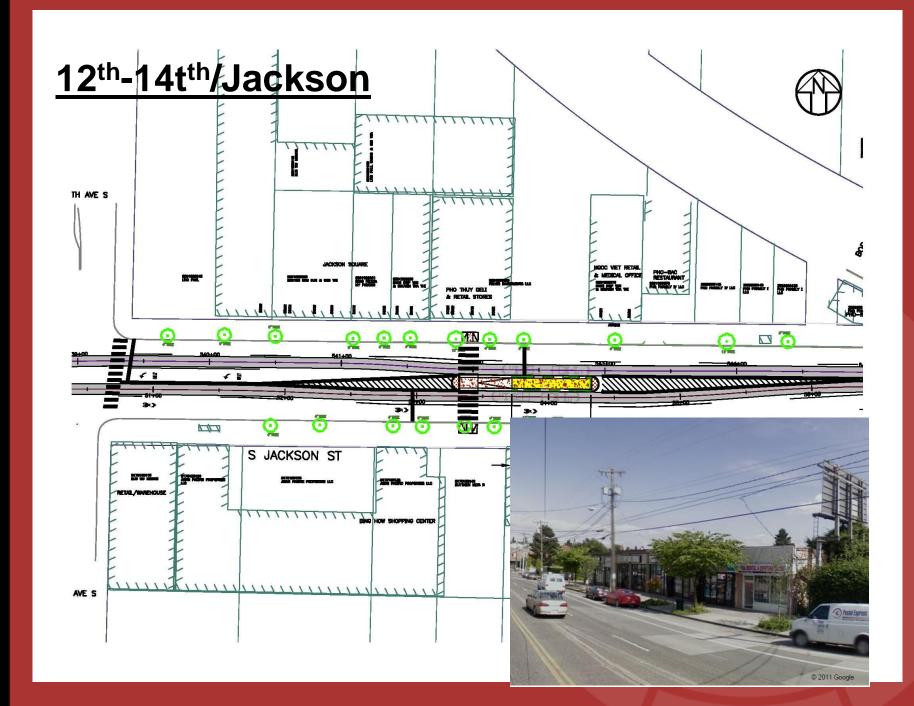


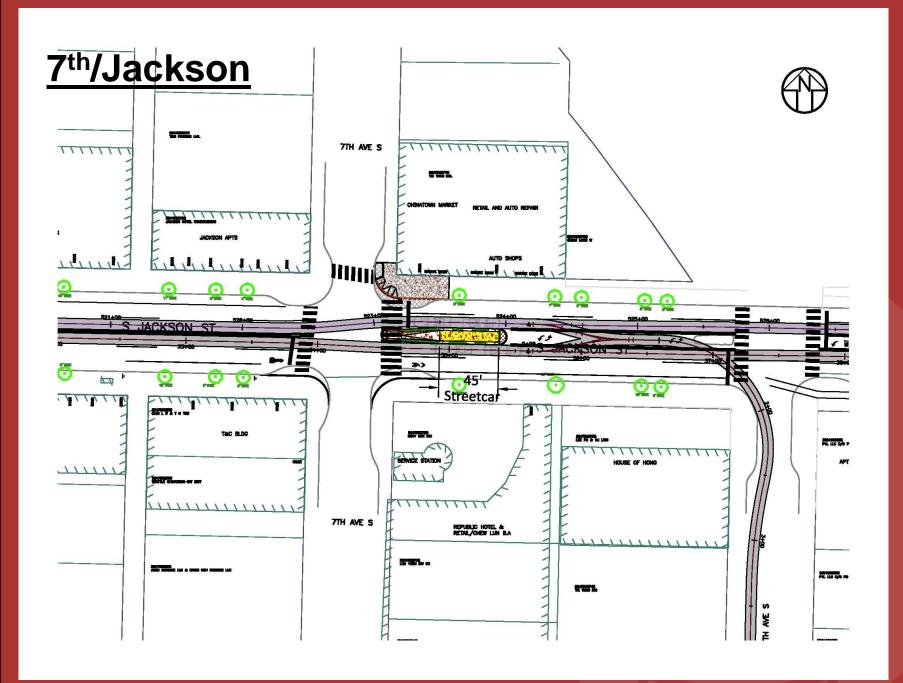


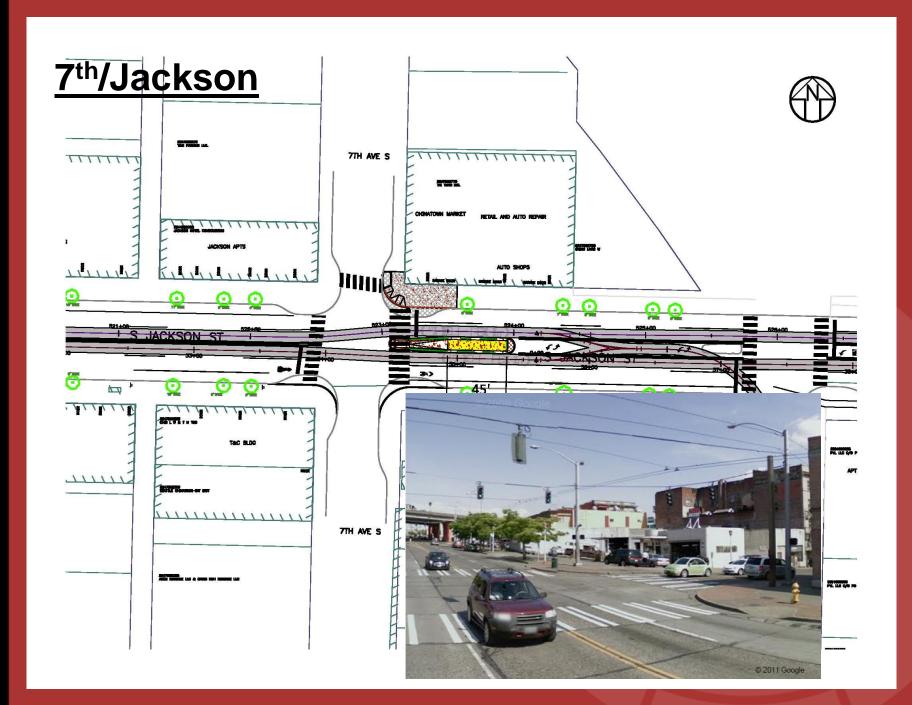


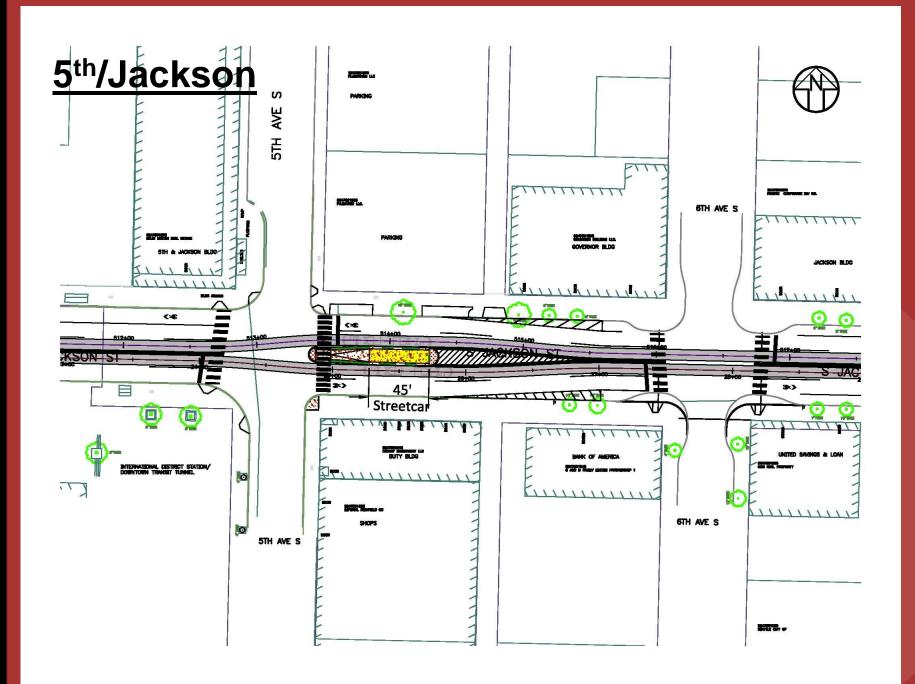


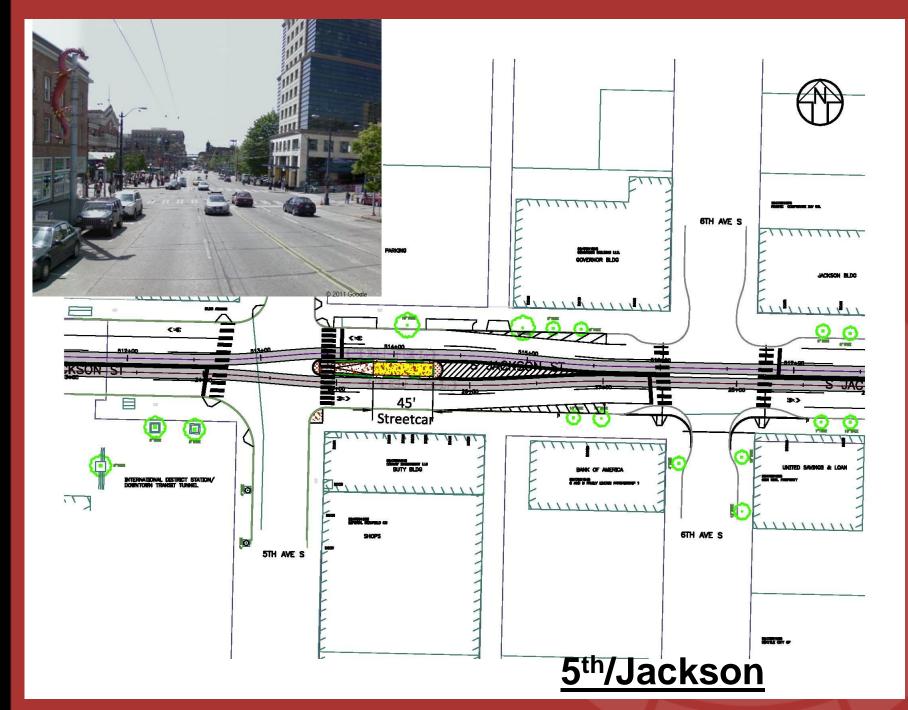


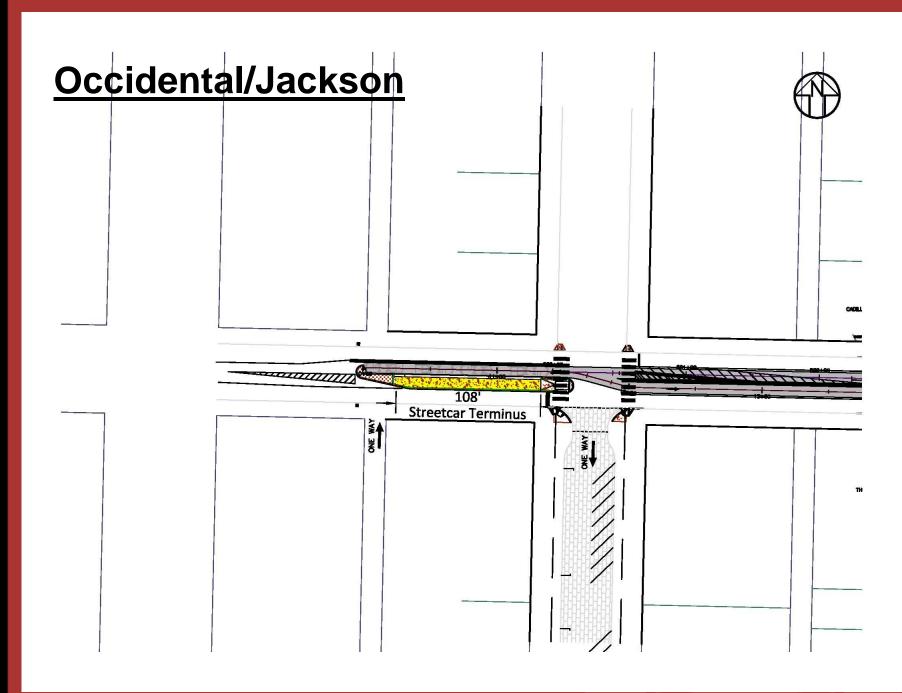


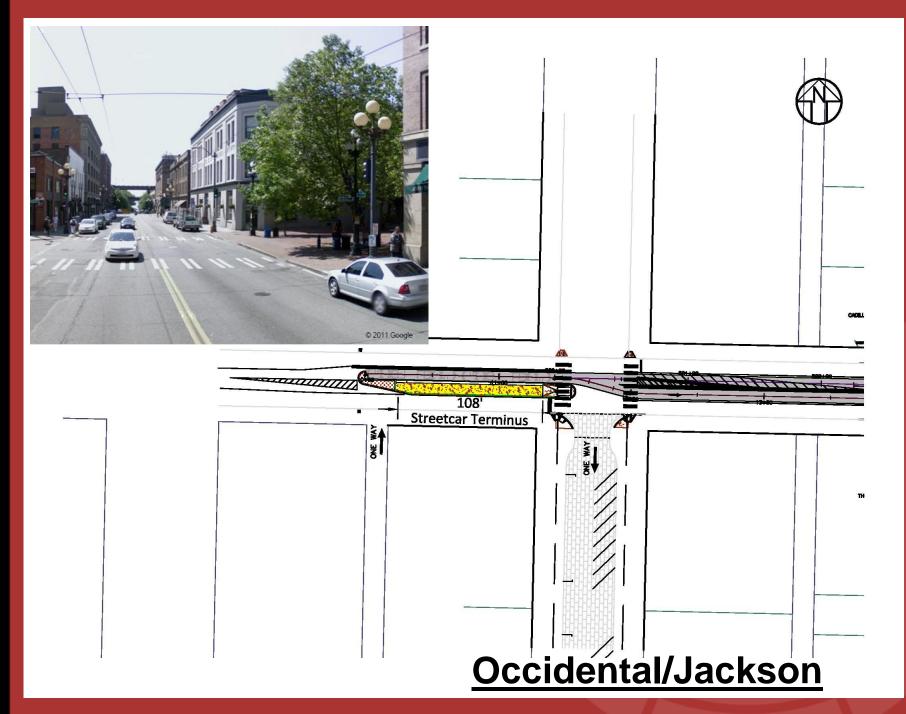






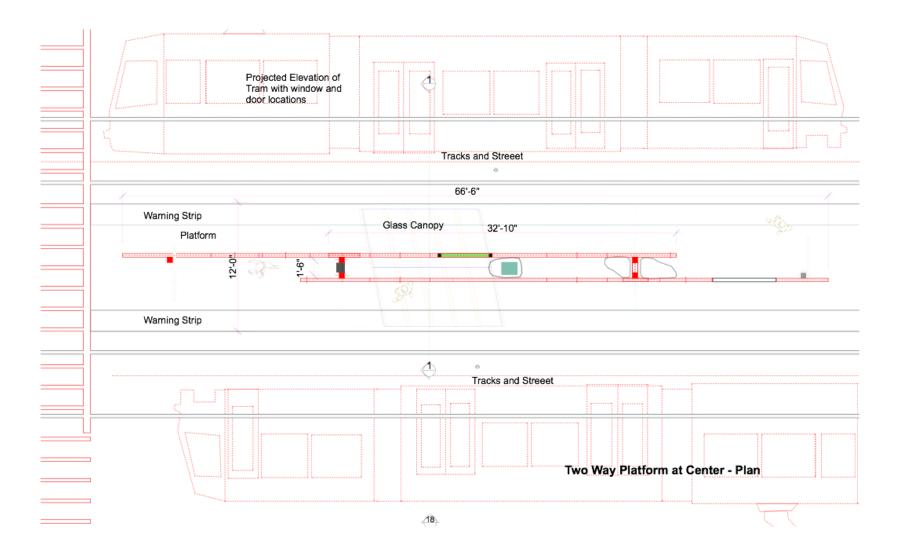


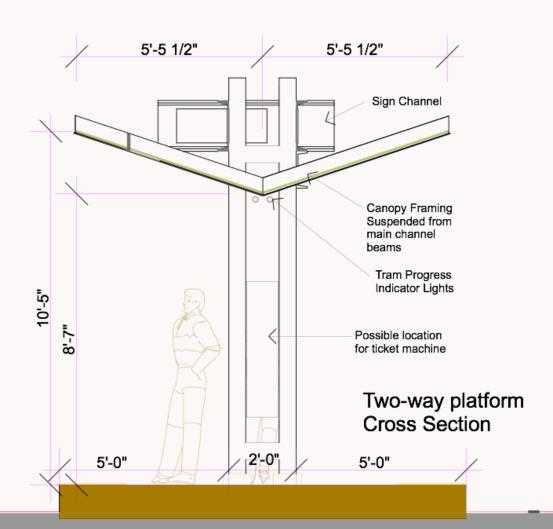


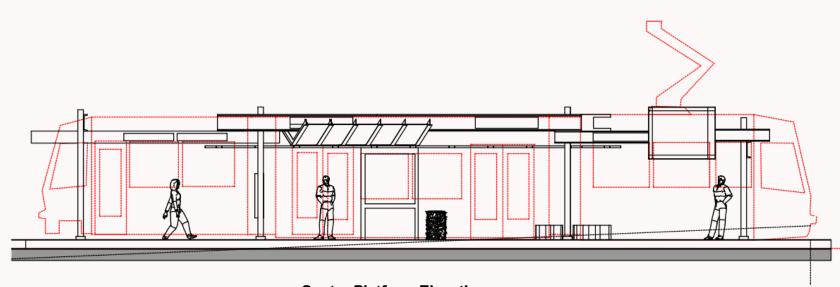


Artist Team Shelter Concept

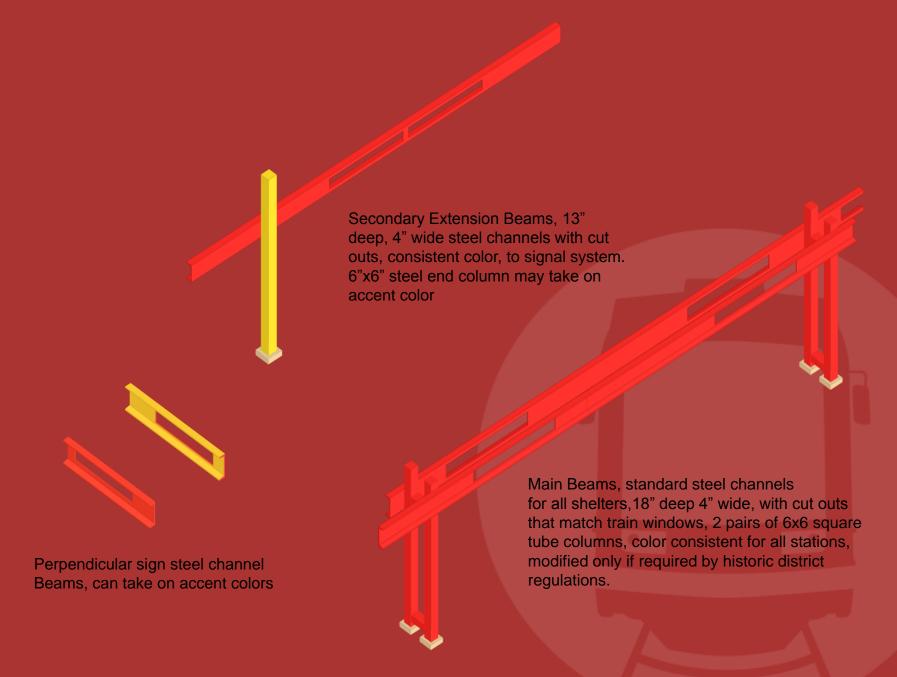
- Mags Harries & Lajos Heder, Artist Team
- Concept Conditionally Approved by Public Art Advisory Committee
- Schematic Design

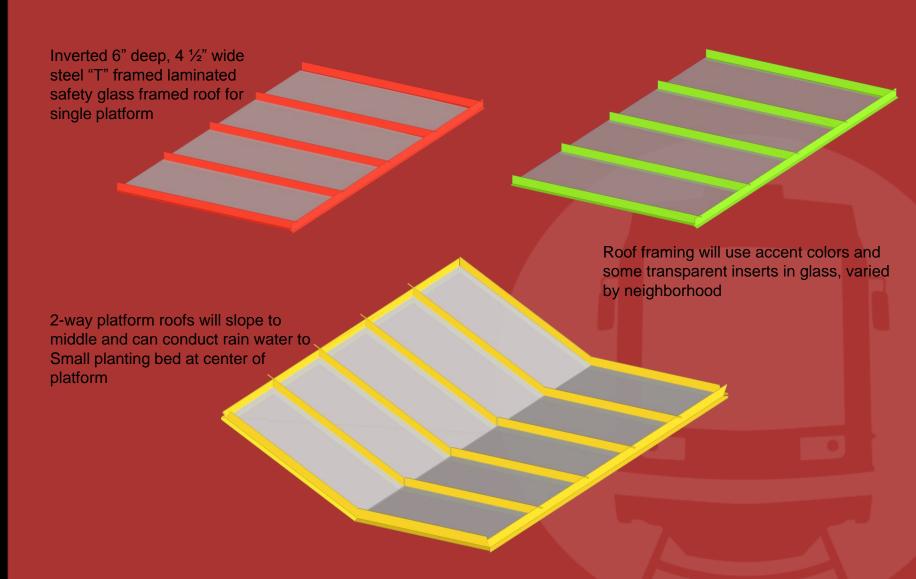


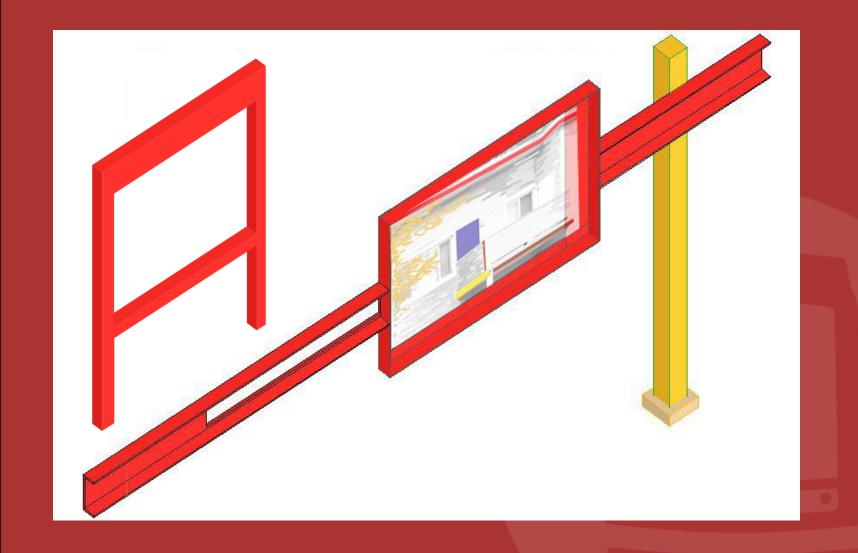




Center Platform Elevation





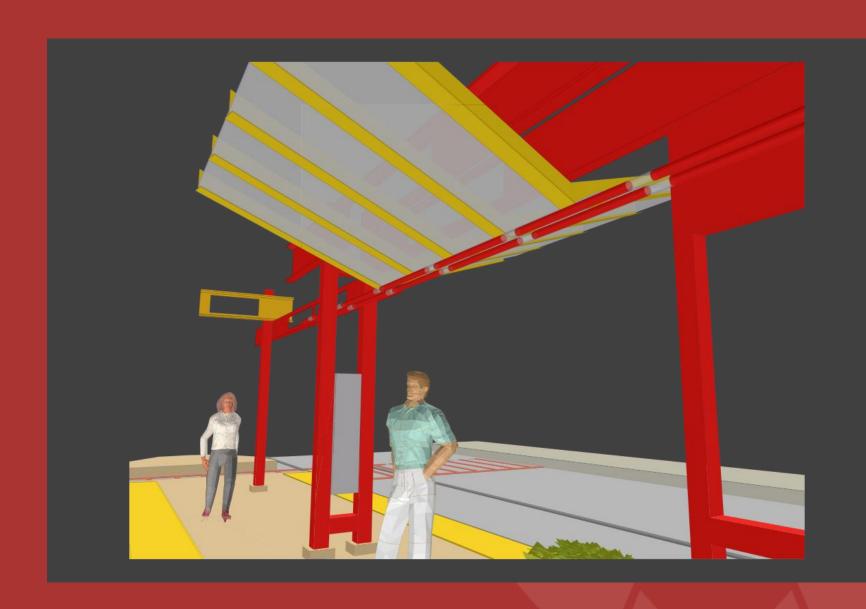


Wayfinding/Signage

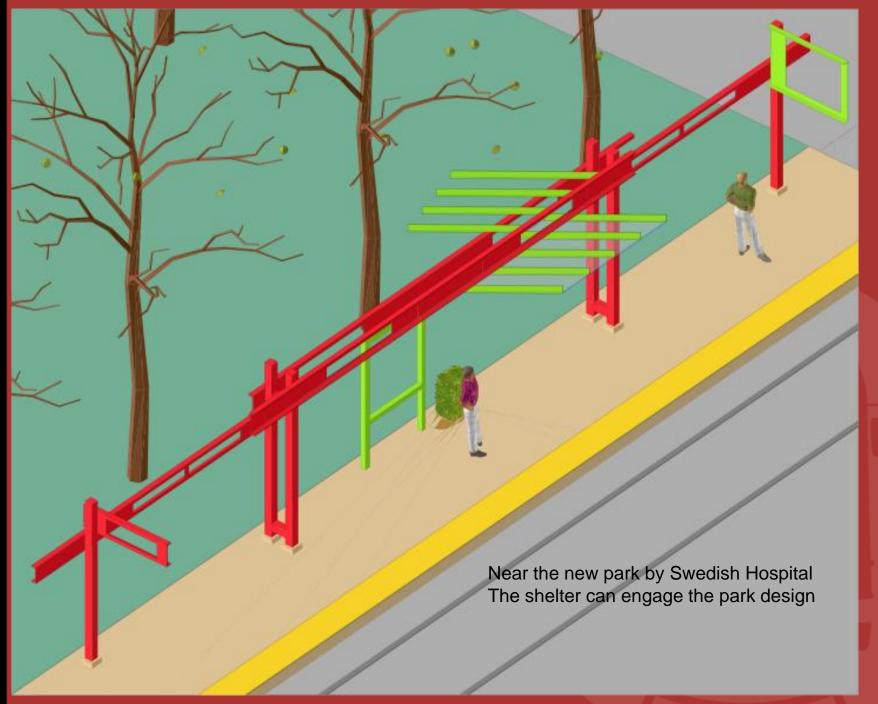
- "Community Window"
- Alignment Map/Neighborhood Map
- Static or Digital TBD

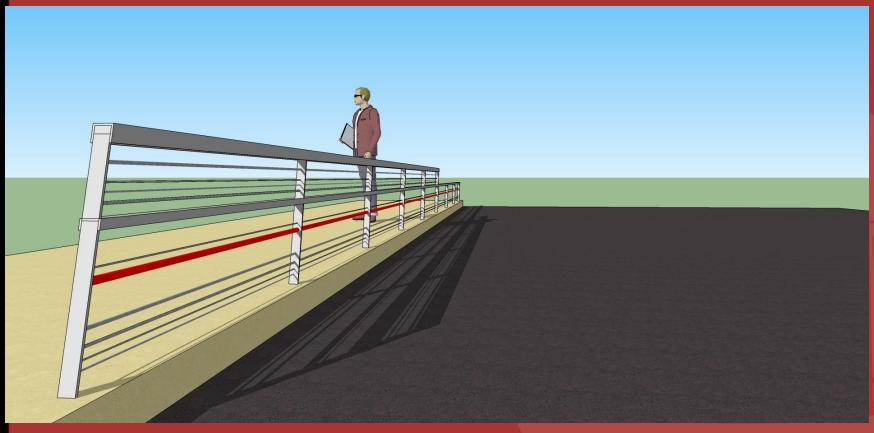


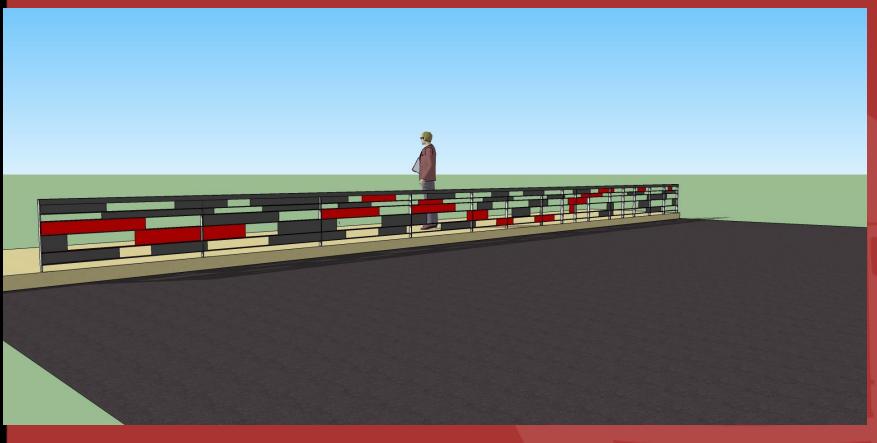
If sponsorship were found, the Community Window can become an Electronic Bulletin Board













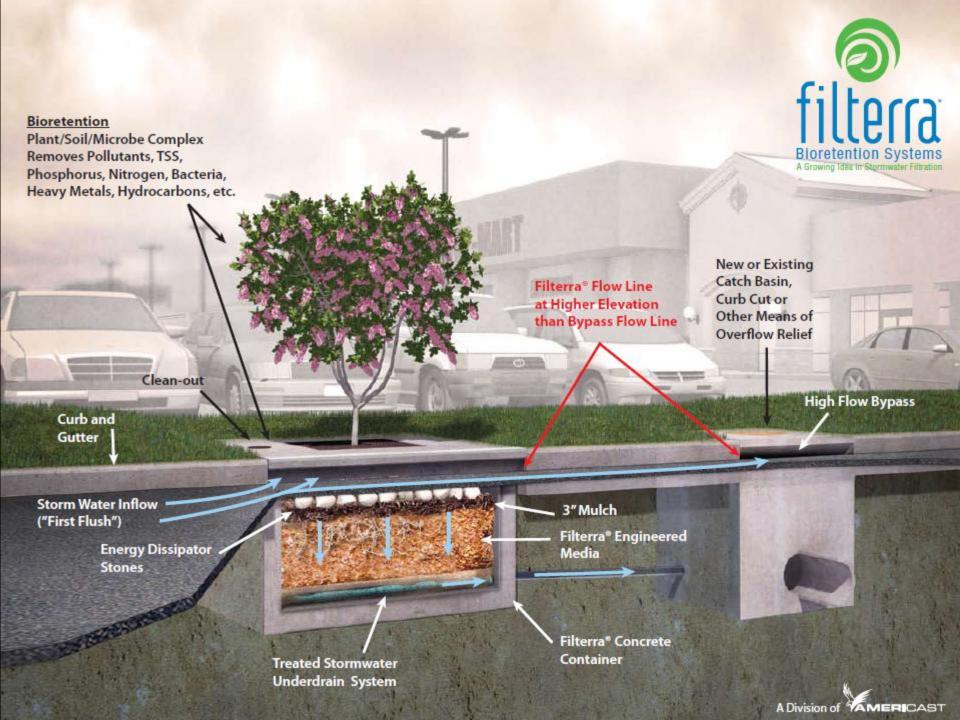


Platform Lighting

- Pavement Luminaires
- Linear, 6'-8' On Center
- White or Blue Light
- Street Lighting Provides Primary Lighting

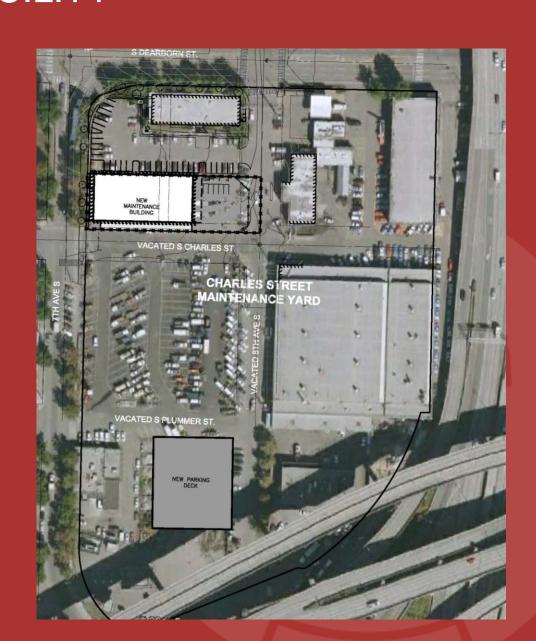
Sustainability Features

- Filtera Stormwater Management System
- Platform Natural Drainage Opportunities
- Maintenance Facility LEED Gold Target
- Vehicle Onboard Energy
 Storage/Regenerative Braking



Site Program

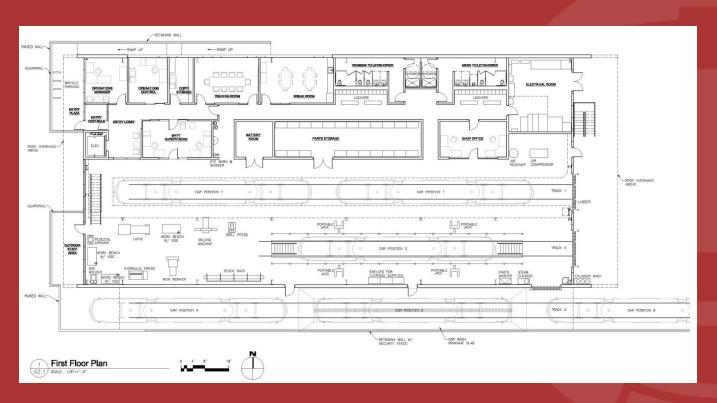
- Tracks for connection to the mainline
- Vehicle operations and maintenance facility (12,500 sq. ft. footprint, 20,000 sq. ft. total)
- A covered exterior vehicle storage and wash track
- Parking/loading spaces
- Refuse and recycling



Building Program

- 2 vehicle positions with platforms for top of vehicle maintenance
- 1 vehicle position with pit and jacking capability

- Machine shop
- Support spaces including:
 Operations, Training, Breakroom,
 Battery Room, Parts Storage,
 Toilet/Locker Rooms



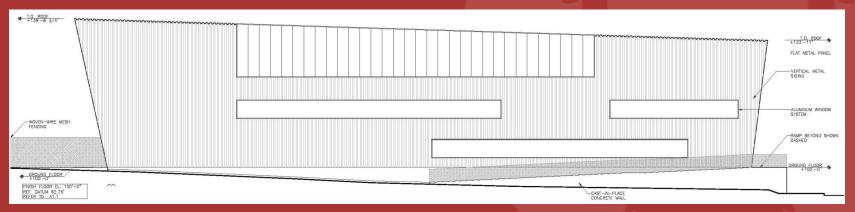
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MAINTENANCE FACILITY

Building Elevations

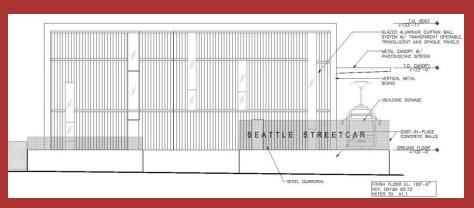


East

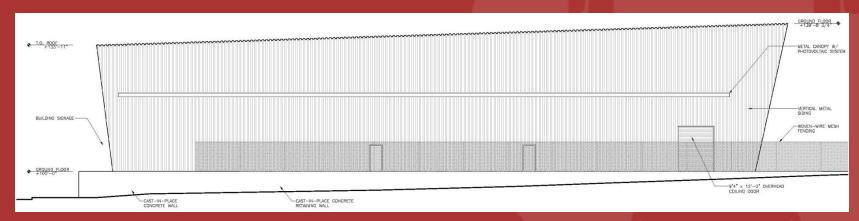


North

Building Elevations



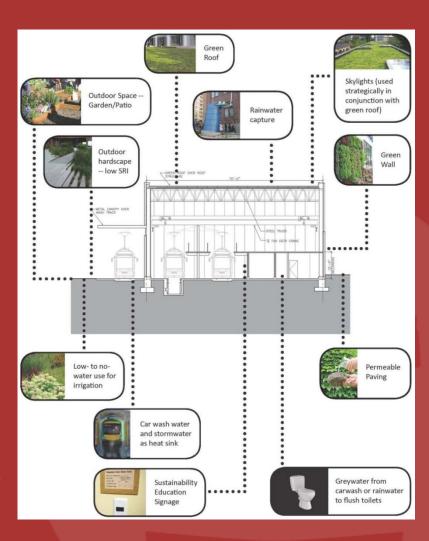
West



South

Sustainability Features

- Minimum LEED Silver Certification
- Integrated Design Process
- Extensive Stormwater Mitigation Features: full green roof, pervious paving, green wall
- Renewable Energy: PV (photovoltaic) array
- Energy Efficiency: highly efficient heating system (variable refrigerant flow [VRF] and radiant flooring), daylighting to offset electric lighting, occupancy and daylighting sensors, natural ventilation
- Occupant Health and Comfort: natural daylighting, access to views, low to no-toxicity building materials
- Locally Sourced Materials
- Electric Car Charging Stations



Rendering



Vehicles & Operations

- Similar to South Lake Union Line
- Wireless Operating Segments
- Passenger Information Systems (On-Board/At Platforms)