Lower Mapes Creek Restoration and 52\textsuperscript{nd} Ave CSO Conveyance Projects
60\% Design Stage

Seattle Design Commission
September 20, 2012
Project Location

Rainier Beach Neighborhood
Project Objectives

• 52nd Ave CSO Reduction
  – Reduce combined sewer overflows by building new conveyance line to meet regulatory requirements and Level of Service goals.

• Mapes Creek
  – Improve aquatic habitat through reconnecting Mapes Creek to Lake Washington.
  – Increase juvenile Chinook salmon rearing and migration habitat.
  – Provide an accessible environmental amenity in the Rainier Beach neighborhood.

• 1% for the Arts – in Beer Sheva Park
SDC Comments on 30% Design

• Optimize pipe location under the 52\textsuperscript{nd} Ave S Walkway – allow for wider walkway and facilitate future improvements.
• Tie full length of project corridor together visually, make the story of the watershed, stormwater, and the stream visible.
• Consider the ROWs community’s civic space and take advantages of opportunities to improve the public realm.
• Refine the design where the pipe enters the park.
• Create visual connection down Henderson into stream area.
• Create places where people can touch water/ kid-friendly.
• Refine design of bridge to make it look less heavy and bulky.
• Work with SDOT, Parks, and non-profit partners to identify funding to enhance area in tandem with the CSO and daylighting project.
Additional Comments: Community Meeting August 14, 2012

- Integrate art with the neighborhood plan goals.
- Can the creek flow through the wetlands to the north?
- What can you do to get the people off the light rail to explore the community?
- Many other comments related to specific ideas for art (e.g., gazebo in the park)
Rainier Beach Neighborhood Plan

• **Goals**
  – Strong communities & organizations
  – Healthy people & families
  – Great places that support the community

• **Priorities**
  – Improve public safety, primarily in Rainier Ave. S / S Henderson St area, through focused/comprehensive effort.
  – Complete urban farm/wetland link to the entire community.
  – Stimulate development.
  – Create streetscape plan for art, wayfinding, touchstones, kiosks, etc.; include these elements in street projects.
  – Extend #7 Metro bus to light rail station and relocate bus layover.
Pipeline Design Improvements

- Increased space for walking.
- Minimize surface changes to preserve opportunity for community-driven amenities.
- Restore plaza to allow for future changes.
- Make path 10-ft wide.

[Diagram with marked sections and labels as indicated in the natural text]
Pipeline Design Improvements

- Install electrical conduits for future SDOT Fisher Ave S project.
- Install GSI to allow room for future walkway.
- Coordinate with SDOT on pedestrian project.
Pipeline Design Improvements

Street Use Permit

Optimal location for new pipes
Pipeline Design Improvements

Follow SPD Landscape guidelines.

Optimal location for new pipes

Increase path width from approx 6 ft to 10 ft.

52nd Ave S. Walkway
Beer Sheva Park & Vicinity
Mapes Creek Channel – 60% Design

LANDSCAPE NOTES
1. SEE CREEK RESTORATION PLAN (1 OF 2) FOR PLANT SCHEDULE.
2. TREES TO BE PLANTED WITHIN 3 FEET OF PROPERTY LINE.
3. TREES ARE SHOWN AT APPROXIMATE 10 YEAR POST PLANTING SIZE.
4. SEE SHEET 26 FOR IRRIGATION DRAFT ZONING PLAN.
5. SEE SHEET 28 FOR DESIGN REMOVAL PLAN.

IRRIGATION NOTES
1. UPPER AND LOWER CHANNEL PLANTING AREAS WILL BE IRRIGATED WITH A FIXED SPRAY SYSTEM PER SEATTLE PARKS DEPARTMENT STANDARDS.
2. IRRIGATION REQUIREMENTS FOR LAWN AREAS TO BE DETERMINED BY SEATTLE PARKS DEPARTMENT.

LEGEND
- 3/8" MINUS CRUSHED ROCK PAVING PER SPR STD. DETAIL 32 15 43
- PRECAST REINFORCED TURF PAVING FILLED WITH 3/8" MINUS CRUSHED ROCK
- PRECAST REINFORCED TURF PAVING WITH LANDSCAPING
- PEDESTRIAN BRIDGE SEE STRUCTURAL
- UPLAND WOODY DEBRIS AND BOLDDERS TO PROVIDE HABITAT AND NUTRIENT LADING IN THE UPLAND AREAS
- CHANNEL PLANTING AREA
- REMOVE INVASIVE PLANTS AND RESTORE WITH LOW SHORELINE PLANTING (ZONE 1 PLANTS – SEE PLANT SCHEDULE)
- RESTORED PLANTING BED
- RESTORED LAW
- 60’ WETLAND BUFFER
- 100’ SHORELINE HABITAT EDA LIMIT
- 200’ SHORELINE DISTRICT EDA LIMIT
- LIMITS OF WORK
- TREE PROTECTION FENCE PER PARKS STANDARD PLAN
- TOP OF CHANNEL
- FIXED BOLLARD PER SPR STD DETAIL 12 93 63.26
- SPECIAL WORKING ACTIVITY AROUND EXISTING TREES

Seward Park Ave S
Beer Sheva Park
Lake Washington
Mapes Creek Channel Shoreline Sections
Mapes Creek Channel Cross Section
View into Beer Sheva Park
Post Construction Rendering
Beer Sheva Park – Before

Looking from Seward Park Ave toward lake
Seward Park Ave into Beer Sheva Park - After
Lake Washington toward Seward Park Ave - Before
Lake Washington toward Seward Park Ave - After
Bridge Design

• Considerations/coordinate with Proview Tech
  – Views: for users, for police
  – ADA access/code requirements
  – Maintenance/graffiti
  – Match comfort station (galvanized, metallic finish)
Mapes Creek Design Improvements

Visual connection: Route stream to north of grassy area. Re-grade land near shoreline.

Visual connection: Limit planting locations and heights.

Visual connection: Investigate locations to touch stream.

Physical connection: Investigate installing path into park.

Visual connection: Remove taller plants at shoreline and replant with low growing species.

Physical connection: Create log/stone steps to help people get to water.
# Project Schedule
for Mapes Creek and 52nd Ave CSO Conveyance

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<th>Phase</th>
<th>Approximate Timeline</th>
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<td>Project Design and Permitting</td>
<td>2012-June 2013</td>
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<td>Public Meetings</td>
<td>July 2012-July 2013</td>
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<tr>
<td>Construction</td>
<td>August 2013 - November 2014</td>
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<tr>
<td>Plant Establishment and Monitoring</td>
<td>2015-2017</td>
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**US EPA Consent Decree Deadline:** Must be fully operational by December 31, 2015.
Questions & Comments