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Harrington Avenue NE Green Connection Stormwater Project

PROJECT OVERVIEW

August 2013

Clean Water • Safe Sidewalks • Green Streets

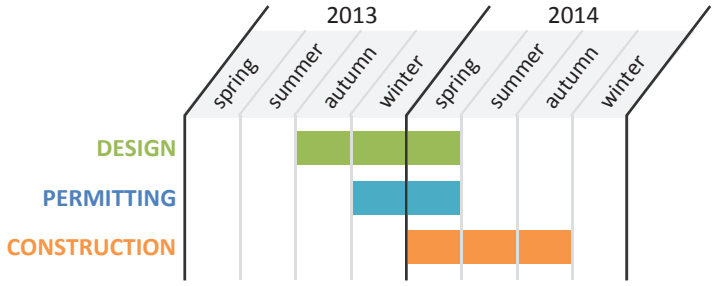
Project Summary

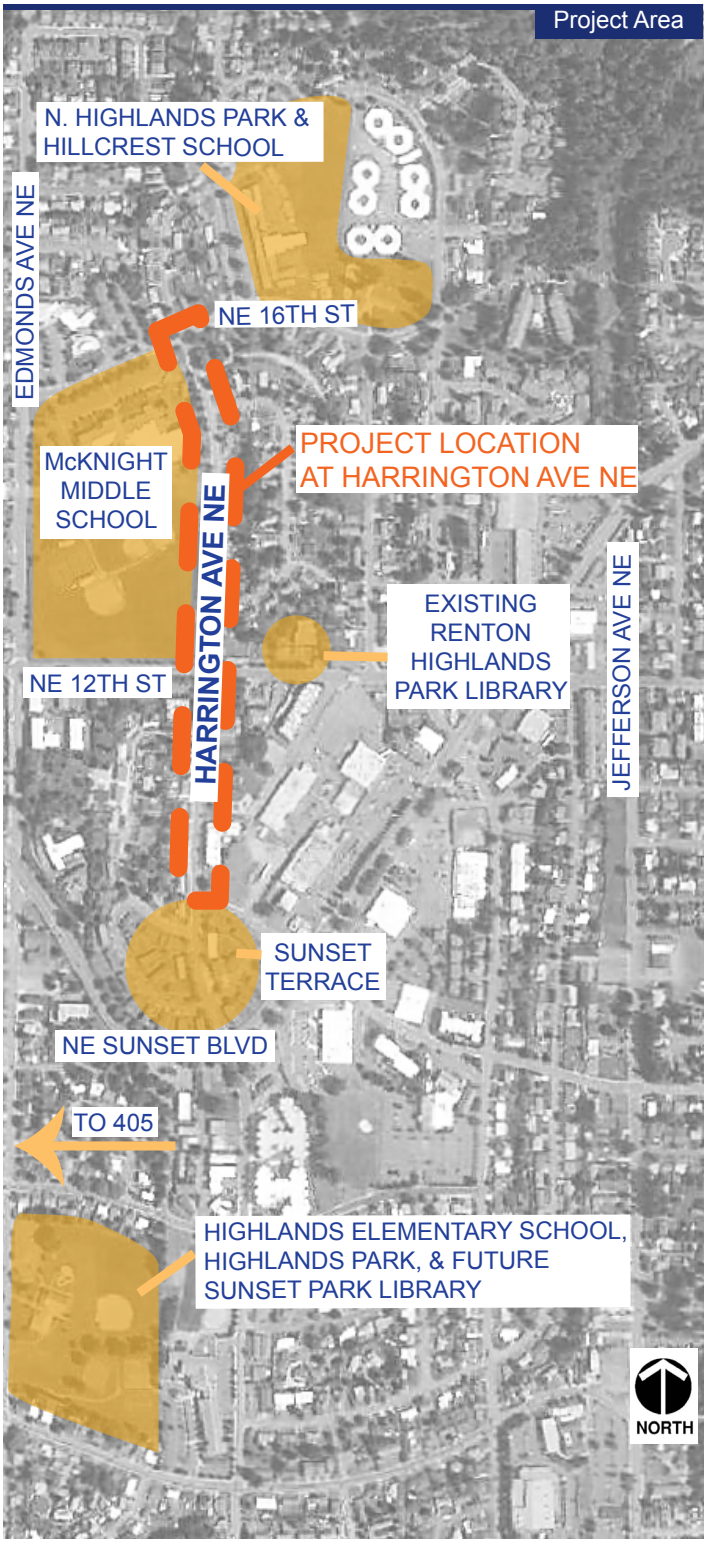
Harrington Avenue Green Connection is a stormwater management project that will demonstrate how bioretention stormwater facilities provide enhanced water quality treatment to pollutant generating streets in Renton's Sunset Community. The project is funded through a Department of Ecology grant and by the City of Renton Surface Water Utility. Street improvements will also include new pedestrian amenities such as sidewalks, street trees, and crosswalks to make this a safer walkable street, ultimately connecting schools, homes, parks, and the library.

Project Goals

- Capture stormwater runoff and mimic natural hydrology, including aquifer recharge.
- Protect Renton's beaches and fish habitats by reducing pollution entering Johns Creek at Coulon Park and Lake Washington.
- Provide improved stormwater conveyance infrastructure.
- Demonstrate best stormwater management practices.
- Provide these improvements with minimal construction impacts to the neighborhood.
- Improve pedestrian safety and provide a walkable route between schools, the public library, and parks.

Project Schedule





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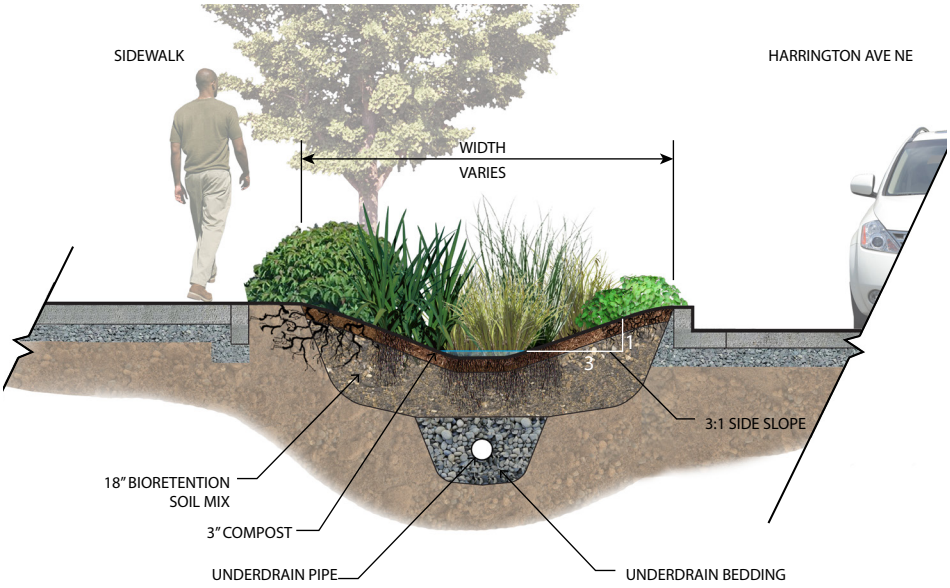
City of Renton

Bioretention with Underdrain



Example Photos

Bioretention Facilities

The existing drainage system at Harrington Avenue collects stormwater runoff from the street and discharges it, untreated, directly into Johns Creek and Lake Washington. The bioretention facilities will collect the stormwater runoff from the street and provide water quality treatment to remove pollutants.

Bioretention facilities provide a low cost, visually attractive alternative to conventional stormwater management that can alleviate the problems associated with those systems.

- Planted swales capture and slow stormwater runoff from the roadway.
- Sediment and pollutants are filtered by plants and soil.
- The filtered stormwater runoff soaks back into the native soil or flows into the city's existing stormwater system.

A series of planted bioretention stormwater facilities with underground perforated pipes will be constructed along Harrison Avenue NE to capture stormwater runoff. These installations will provide enhanced basic water quality treatment and will improve street aesthetics. The project was included as part of the Sunset Area Planned Action EIS and Master Drainage Plan that was adopted by the City Council.

Typical Bioretention Plants


Carex stipata


Carex obnupta


Cornus kelseyi


Rudbeckia fulgida

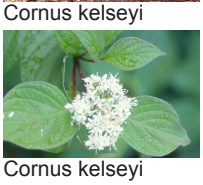

Iris douglasiana


Juncus patens


Spirea japonica


Carex stipata


Carex obnupta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