1. Sidewalk replacement areas
2. Existing trees to remain
3. Proposed curb bump-outs will replace existing painted bulbs
4. Modify existing speed cushion
5. Driveway replacement
6. Natural Drainage Systems
7. Landscape plantings
8. Replace old ADA ramps, typical
9. Property lines
10. New ADA ramps
NATURAL DRAINAGE SYSTEM (NDS): 3D DRAINAGE DIAGRAM

Storm water from streets and sidewalks enters the Natural Drainage System. Deep-rooted plants and spongy soils temporarily hold and clean polluted storm water from streets and sidewalks.

LEGEND
1. Sidewalk
2. Landscape planting
3. NDS planting
4. Weir
5. Curb cut
6. Roadway drainage
7. Filtering soil
8. Existing soil
9. Drainage rock
10. Underdrain

STAY IN TOUCH

SPU is in the design phase of this project. We’re happy to answer questions and provide additional information about the project, including its impacts and benefits to your neighborhood. Please visit the website below to sign up for project updates.

Contact: Wan-Yee Kuo, Senior Project Manager
Email: Wan-Yee.Kuo@seattle.gov
Phone: (206) 684-3957
Visit: www.seattle.gov/utilities/HoldenNDS

PLANT PALETTE

Selected plants represent a mix of native and ornamental species that are adapted to Natural Drainage System environments and align with the SPU Stormwater Manual’s guidelines.

NDS Planting

- Iris douglasiana
  Douglas Iris
- Juncus effusus ‘Quartz Creek’
  Soft Rush
- Carex elata ‘Bowels Golden’
  Gold Sedge

Landscape Planting

- Arctostaphylos x media
  Hybrid Manzanita
- Helianthemum ‘Henfield Brilliant’
  Sun Rose
- Geranium macrorrhizum
  Hardy Geranium

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NOVEMBER 2023
Section A: NDS with Sloped Sides

Section B: NDS with Sloped Sides and Enlarged Step-Out Area

LEGEND
1. Sidewalk
2. NDS planting
3. Filtering soil
4. Existing soil
5. Drainage rock
6. Typical temporary ponding depth (typically drains within 24 hours)
7. Curb and roadway
8. Underdrain
Section C: NDS with Vertical Walls

1. Sidewalk
2. NDS planting
3. Filtering soil
4. Existing soil
5. Drainage rock
6. Typical temporary ponding depth (typically drains within 24 hours)
7. Curb and roadway
8. Underdrain
9. Vertical retaining wall & footing

Section D: NDS with Vertical Walls and Enlarged Step-Out Area

1. Sidewalk
2. NDS planting
3. Filtering soil
4. Existing soil
5. Drainage rock
6. Typical temporary ponding depth (typically drains within 24 hours)
7. Curb and roadway
8. Underdrain
9. Vertical retaining wall & footing