ENHANCING OUR COMMUNITIES with Natural Drainage Systems (NDS) and Pedestrian Improvements

Natural Drainage Systems:
What are they & why do we need them?

When it rains in the Delridge and Westwood neighborhoods, pollution from our streets runs into Longfellow Creek untreated. This is not healthy for the creek or for people. The good news is: there is something we can do.

Natural Drainage Systems consist of shallow depressions in the public right-of-way, or “planter strip,” filled with deep-rooted plants and spongy soils that temporarily hold and clean polluted stormwater from streets and sidewalks. These features capture and clean pollutants before they can reach the creek.

Seattle Public Utilities (SPU) is planning to build natural drainage systems in your neighborhood in 2021. We are partnering with Seattle Department of Transportation (SDOT), Office of Arts & Culture 1% for the arts, and King County Flood Control District.

Community benefits

Natural Drainage Systems offer multiple benefits to local neighborhoods and ecosystems, including:

- Greener, more attractive neighborhoods
- Lower risk of flooding
- Creation of habitat along our streets
- Healthier creek ecosystems
- Calmer traffic patterns
- More street trees
- Pedestrian improvements

Learn more at: seattle.gov/util/longfellowNDS
WHERE WE ARE NOW
...and where we’re going

The Longfellow Creek Natural Drainage System (NDS) Project has completed 30% design outreach and incorporated community feedback in the early design. At the 60% Design Phase, we present updated street and drainage improvements and answer questions from the community. We finalize the project scope based on regulatory requirements and project funding.

30% INPUTS
- Neighborhood priorities
- Current drainage conditions
- Location of utilities
- Local topography + mature trees
- Rainfall runoff patterns along the street
- Soil testing + analysis
- Location of homes + paths
- Location of driveways
- On-street parking patterns
- City right-of-way impacts
- Zoning code
- Projected construction costs
- Maintenance of NDS
- Permitting
- Community concerns

60% INPUTS
- Neighborhood priorities
- Local ecosystem needs
- Detailed utility locations + impacts
- Planting palettes & new street trees
- NDS sizing adjustments
- Refinements to design dimensions + details
- City right-of-way impacts
- Balance of costs with budget
- Maintenance of NDS
- Permitting
- Community concerns

30% DESIGN
SITING, FIELD INVESTIGATIONS SURVEY + CONCEPT DEVELOPMENT
2017 to 2018

OUTREACH FOR 30% DESIGN
MID 2019

OUTREACH FOR 60% DESIGN
EARLY 2020

60% DESIGN
FINALIZE + OBTAIN PERMITS

OUTREACH FOR 60% DESIGN
LATE 2020

FINAL DESIGN

FINAL INPUTS
- Accessibility impacts
- Construction costs + impacts
- Ongoing maintenance costs + responsibility
- Permitting requirements
- Construction questions

NEARBY CITY PROJECTS ENTERING CONSTRUCTION

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<thead>
<tr>
<th>PROJECT</th>
<th>EST. SCHEDULE*</th>
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<tbody>
<tr>
<td>35th/Avalon Paving</td>
<td>IN CONSTRUCTION NOW</td>
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<td>35th/Avalon Paving</td>
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<td>SW Seattle Paving</td>
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<td>RapidRide H Line</td>
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<td>Neighborhood Greenway Phase 2</td>
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*Project schedules subject to change

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WHAT WE HEARD...and how we’re incorporating your ideas into the Longfellow Creek NDS Project

We heard...

The Longfellow Creek Community highly values pedestrian safety and sidewalks.

We are prioritizing new sidewalk and accessible ramps near schools, transit, and shops.

Residents are concerned about road condition on stretches of 24th Ave SW.

Traffic speeds are a concern in some places along 24th Ave SW.

Street trees, on-street parallel parking, and other NDS features offer traffic-calming effects.

We found that the SW Henderson St and 24th Ave SW intersection does not meet criteria for a new traffic circle.

We are exploring options such as replacing speed humps and adding curb bulbs.

We are prioritizing new sidewalk and accessible ramps near schools, transit, and shops.

We are exploring road edge treatment options to convey water to NDS and installing structures to collect water.

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Metro Route 22 Service Revision

Perform slurry seal preventative maintenance between SW Barton PL and SW Trenton St in 2019.

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WHAT TO EXPECT

How a typical NDS planting installation changes over time

BEFORE

NEWLY PLANTED

~1 year

GROWING

~5 years

MATURE
24th AVE SW CORRIDOR

Typical existing street conditions

Typical proposed street conditions

*Street conditions vary along 24th Ave SW Corridor

New Sidewalk + Natural Drainage System between SW Cloverdale St and SW Barton Pl

New Sidewalk + Planting Strip between SW Cloverdale St and SW Barton Pl

Natural Drainage System Opposite New Sidewalk between SW Cloverdale St and SW Barton Pl

New Sidewalk between SW Thistle St and SW Cloverdale St*

*NOTE: SW Thistle St / SW Cloverdale St sidewalk is subject to funding availability. See plan for detailed layouts.
What’s in store for the 24th Ave SW Corridor?

24th Ave SW between SW Cloverdale St and SW Trenton St

Street view looking North, early summer

24th Ave SW between SW Barton St and SW Henderson St

Sidewalk view looking South
POTENTIAL NDS AND SIDEWALK IMPROVEMENTS
24TH AVE SW: THISTLE TO CLOVERDALE

KEY

- SIDEWALK
- NATURAL DRAINAGE SYSTEM (NDS)
- 10' WIDE CITY STANDARD DRIVEWAY ACROSS SIDEWALK
- PLANTING STRIP
- NEW STREET TREE
POTENTIAL NDS AND SIDEWALK IMPROVEMENTS
24TH AVE SW: CLOVERDALE TO TRENTON
POTENTIAL NDS AND SIDEWALK IMPROVEMENTS
24TH AVE SW: TRENTON TO HENDERSON

KEY

- SIDEWALK
- NATURAL DRAINAGE SYSTEM (NDS)
- 10' WIDE CITY STANDARD DRIVEWAY ACROSS SIDEWALK
- PLANTING STRIP
- NEW STREET TREE

Questions? Contact Seattle Public Utilities:
Jonathan Brown | Project Manager
Jonathan.Brown@seattle.gov | 206-386-4027
Learn more at: seattle.gov/util/longfellowNDS

For interpretation services, please call 206-386-4027
Para servicos de intepretation solicite al 206-386-4027
Vì dịch vụ phiên dịch xin gọi 206-386-4027
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24TH AVE SW: HENDERSON TO BARTON