## LONGFELLOW CREEK NDS PROJECT



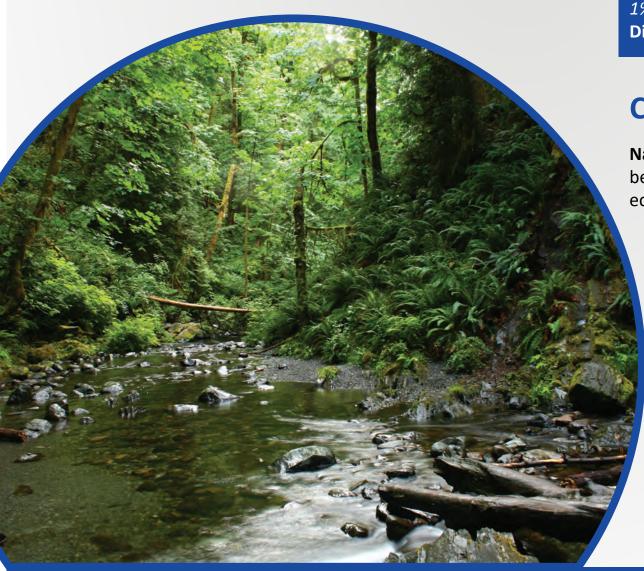
# IMPROVING OUR COMMUNITIES with Natural Drainage Systems (NDS)

#### 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 2020-2021.



# What is the NDS Partnering Program?

The 2016-2025 Natural Drainage Systems
Partnering Program is a Seattle Public Utilities
multi-year capital improvement program
focused on Longfellow, Piper's, and Thornton
Creek watersheds.

The program's goal is to construct street-side natural drainage systems that filter and manage stormwater and improve neighborhoods with street trees, traffic calming, and, in some cases, a limited number of sidewalks.

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

















### WHERE WE ARE NOW



...and where we're going

The Longfellow Creek Natural Drainage System (NDS) Project has completed preliminary planning and field investigations.



At the 30% Design Phase we present potential street and drainage improvements to the community, answer questions, and gather community concerns as we work toward finalizing the project scope based on regulatory requirements and project funding.

60% INPUTS

Neighborhood priorities

• Detailed utility locations + impacts

Refinements to design dimensions

• Planting palettes & new street trees

Local ecosystem needs

NDS sizing adjustments

City right-of-way impacts

**Maintenance of NDS** 

**Community concerns** 

Permitting

Balance of costs with budget

#### **FINAL INPUTS**

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

A Healthier & Safer Longfellow Creek!

#### **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%

DESIGN \_\_\_

FINAL DESIGN

PRE-CONSTRUCTION OUTREACH

MID 2020

30%
DESIGN

OUTREACH FOR 60% DESIGN

LATE 2019 / EARLY 2020

OUTREACH FOR 30% DESIGN

MID 2019

SITING, FIELD INVESTIGATIONS
SURVEY + CONCEPT DEVELOPMENT

2017 to 2018

2019

**→2020** 

2021







### WHAT WE HEARD for the 24th AVE SW CORRIDOR



### ...and how we're incorporating your ideas into the Longfellow Creek NDS Project









# 24th AVE SW CORRIDOR



### Typical existing street conditions

EAST WEST Right-of-Way Right-of-Way



### Typical proposed street conditions

\*Street conditions vary along 24th Ave SW Corridor



**EAST** 

**EAST** 

Right-of-Way

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

PARKING 2-WAY PARKING

**TRAVEL** 

WEST EAST Right-of-Way Right-of-Way



PARKING 2-WAY PARKING SIDEWALK TRAVEL

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

WEST EAST Right-of-Way Right-of-Way

**SIDEWALK** 

WEST Right-of-Way

**WEST** 

Right-of-Way



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

TRAVEL



New Sidewalk between SW Thistle St and SW Cloverdale St\*

PARKING SIDEWALK

\*NOTE: SW Thistle St / SW Cloverdale St sidewalk is subject to funding availability. See plan for detailed layouts.

2-WAY

**TRAVEL** 



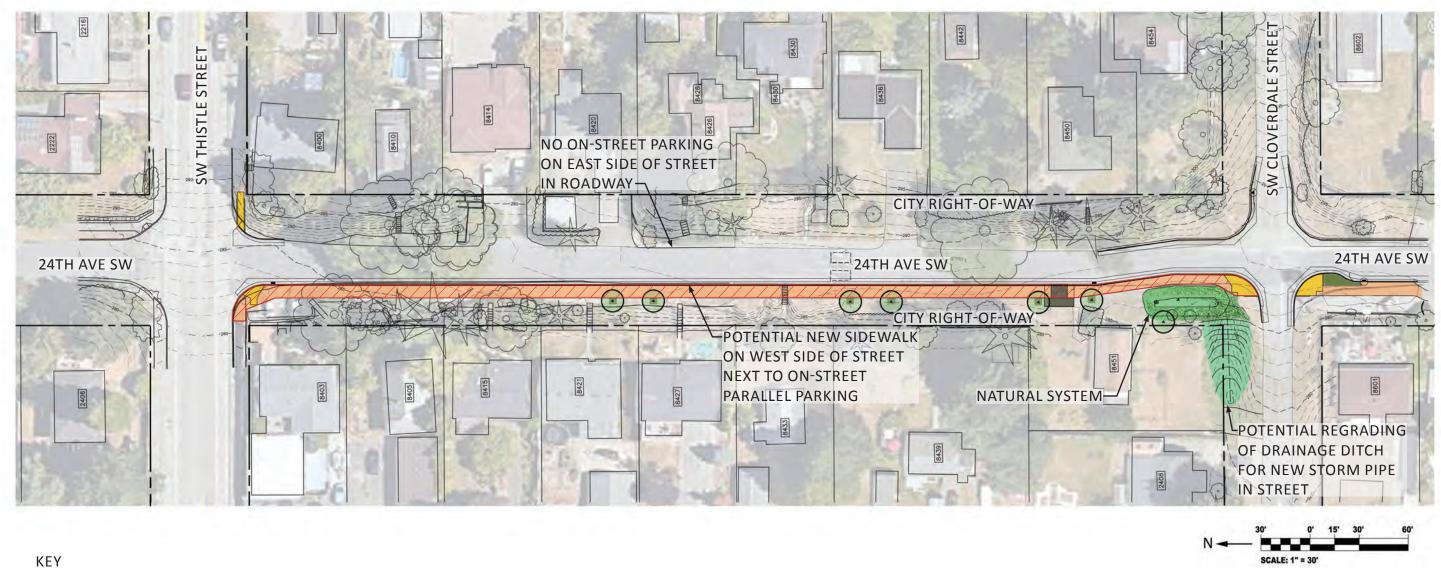






### POTENTIAL NDS AND SIDEWALK IMPROVEMENTS 24TH AVE SW: THISTLE TO CLOVERDALE

Note: Sidewalk improvements on this block are dependent on funding







**NEW ACCESSIBLE CURB RAMPS** 

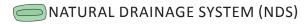


**SIDEWALK** 





10' WIDE CITY STANDARD **DRIVEWAY ACROSS SIDEWALK** 





PLANTING STRIP



NEW STREET TREE

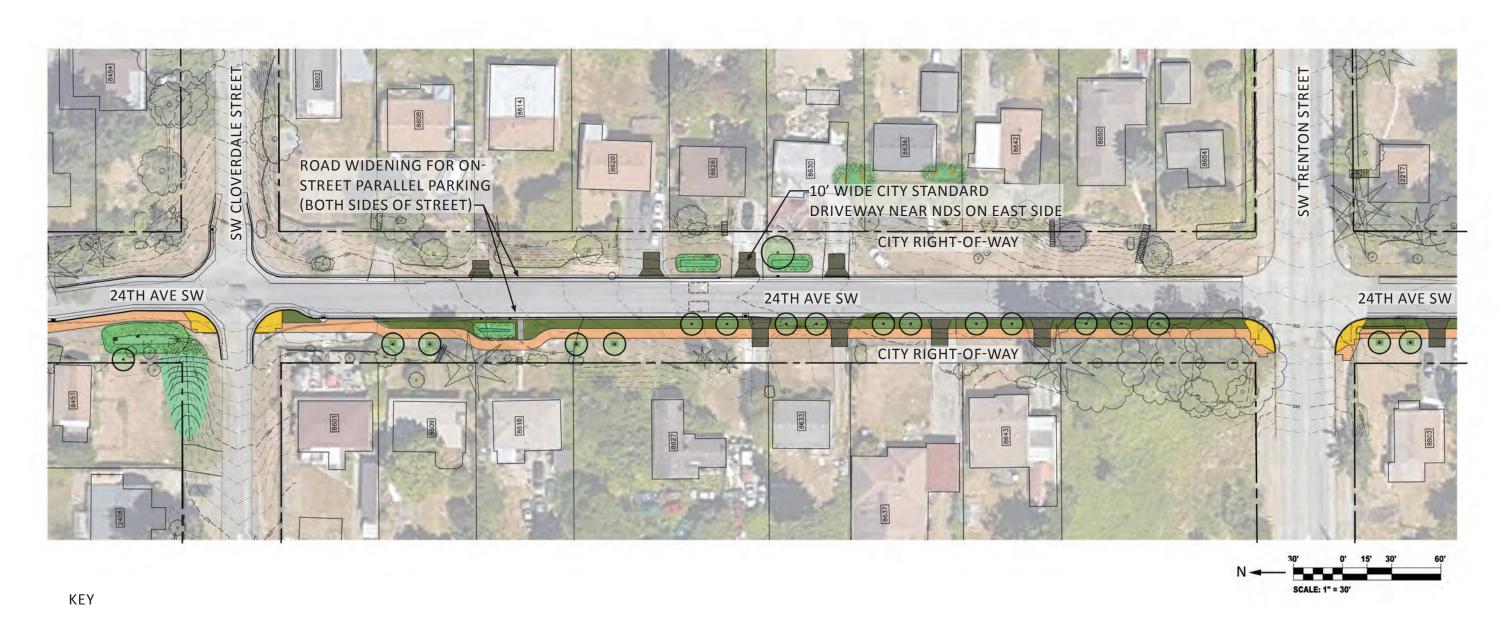








# POTENTIAL NDS AND SIDEWALK IMPROVEMENTS 24TH AVE SW: CLOVERDALE TO TRENTON





SIDEWALK

10' WIDE CITY STANDARD DRIVEWAY

NATURAL DRAINAGE SYSTEM (NDS)











#### **Questions? Contact Seattle Public Utilities:**



# POTENTIAL NDS AND SIDEWALK IMPROVEMENTS 24TH AVE SW: TRENTON TO HENDERSON





SIDEWALK

10' WIDE CITY STANDARD DRIVEWAY ACROSS SIDEWALK ON WEST SIDE OF STREET

NATURAL DRAINAGE SYSTEM (NDS)



NEW STREET TREE



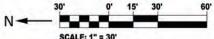






# POTENTIAL NDS AND SIDEWALK IMPROVEMENTS 24TH AVE SW: HENDERSON TO BARTON





KEY





10' WIDE CITY STANDARD DRIVEWAY ACROSS SIDEWALK

NATURAL DRAINAGE SYSTEM (NDS)











#### **Questions? Contact Seattle Public Utilities:**