



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

## What are Natural Drainage Systems?

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 built in the roadway shoulder (the space between the street edge and the property line) and are filled with deep-rooted plants and spongy soils that temporarily hold and clean polluted stormwater from streets. These features capture and clean pollutants before they can reach Longfellow Creek.



**Seattle Public Utilities (SPU) is planning to build natural drainage systems in your neighborhood in 2022.** 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:

- Increased landscaping
- Lower risk of flooding
- Creation of habitat along our streets
- Healthier creek ecosystems
- Traffic calming
- More street trees
- Pedestrian improvements

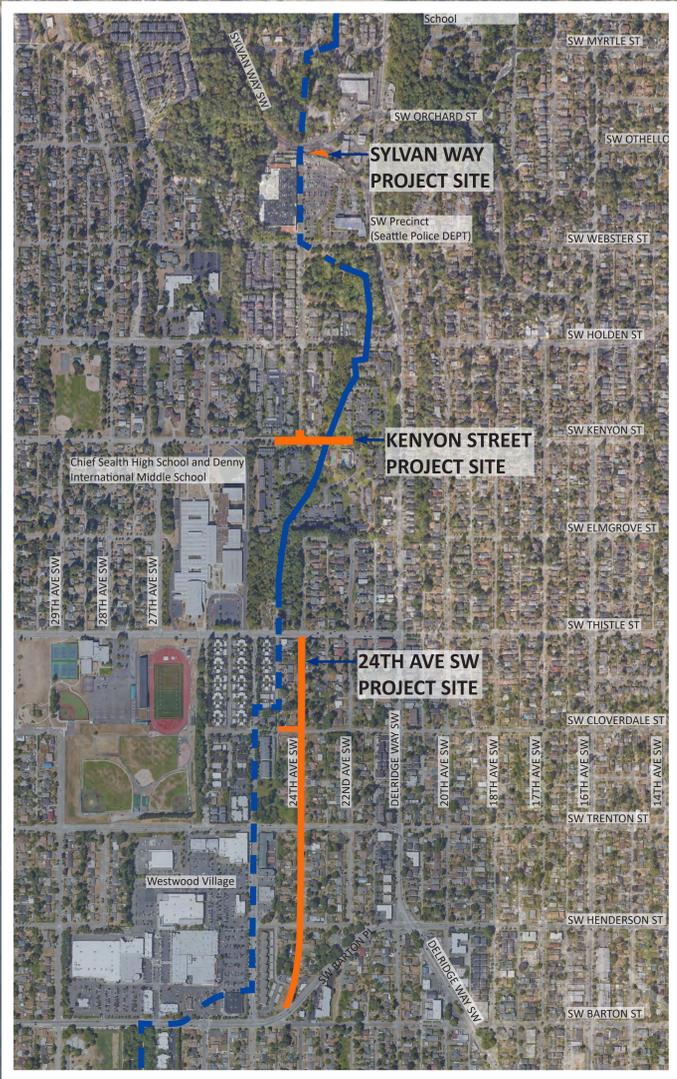


# LONGFELLOW CREEK

## Watershed Boundary



Seattle  
Public  
Utilities



PUGET SOUND/  
SALISH SEA

LONGFELLOW CREEK  
WATERSHED BOUNDARY

### LEGEND

- WATERSHED AREA FLOWING INTO LONGFELLOW CREEK
- LONGFELLOW CREEK
- LONGFELLOW CREEK (PIPED)
- SYLVAN WAY NDS SITE
- KENYON NDS SITE
- 24TH NDS SITE

WEST SEATTLE BRIDGE

SW GENESEE ST

SW KENYON ST

SW BRANDON ST

SW MORGAN ST

SW HOLDEN ST

SW KENYON ST

SW THISTLE ST

SW CLOVERDALE ST

SW TRENTON ST

SW HENDERSON ST

SW BARTON ST

SW ROXBURY ST

WEST SEATTLE BRIDGE

LONGFELLOW CREEK

PROJECT AREA

ROXHILL  
PARK

24TH AVE SW

DUNAMISH RIVER



City of Seattle



FINAL DESIGN

# WHAT TO EXPECT

How a typical NDS planting installation changes over time



BEFORE



NEWLY PLANTED

~1 year



GROWING

~5 years



MATURE

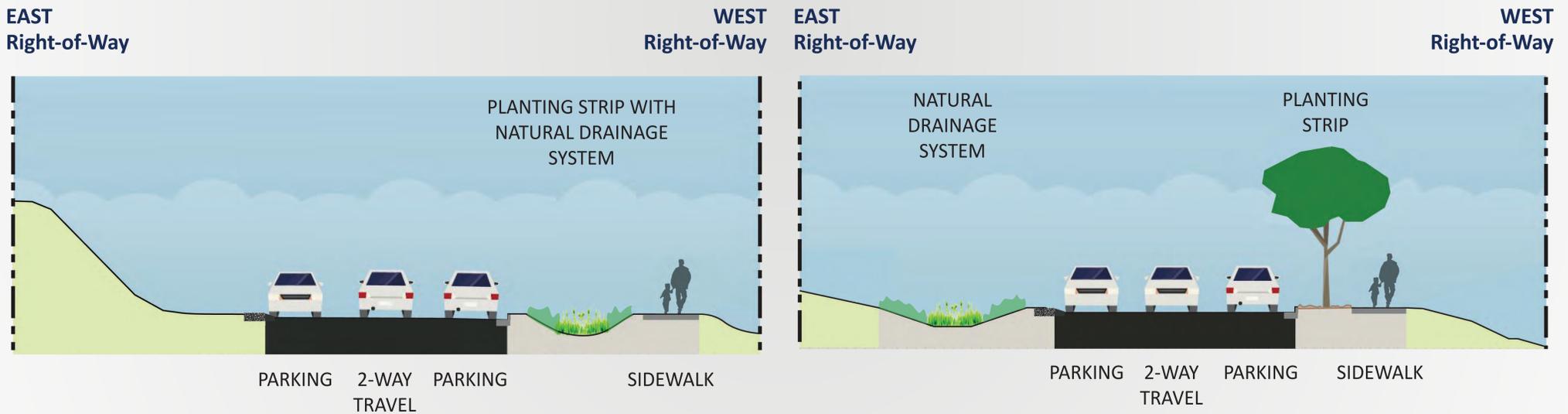


## Typical existing street conditions



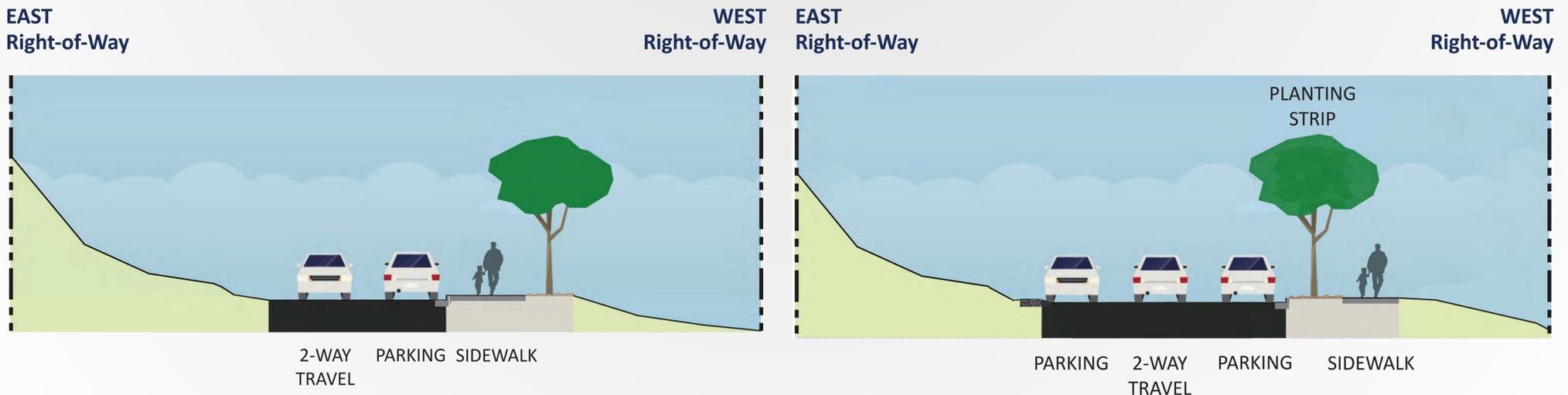
## Typical proposed street conditions

\*Street conditions vary along 24<sup>th</sup> 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**

## What's in store for the 24th Ave SW Corridor?

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



Illustration #1: Sidewalk view looking South

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



Illustration #2: Street view looking North, early summer

# 24<sup>th</sup> AVE SW CORRIDOR

## 24th Ave SW: Thistle to Cloverdale

### Potential Natural Drainage Systems and Sidewalk Improvements



#### KEY

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

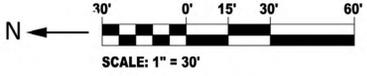
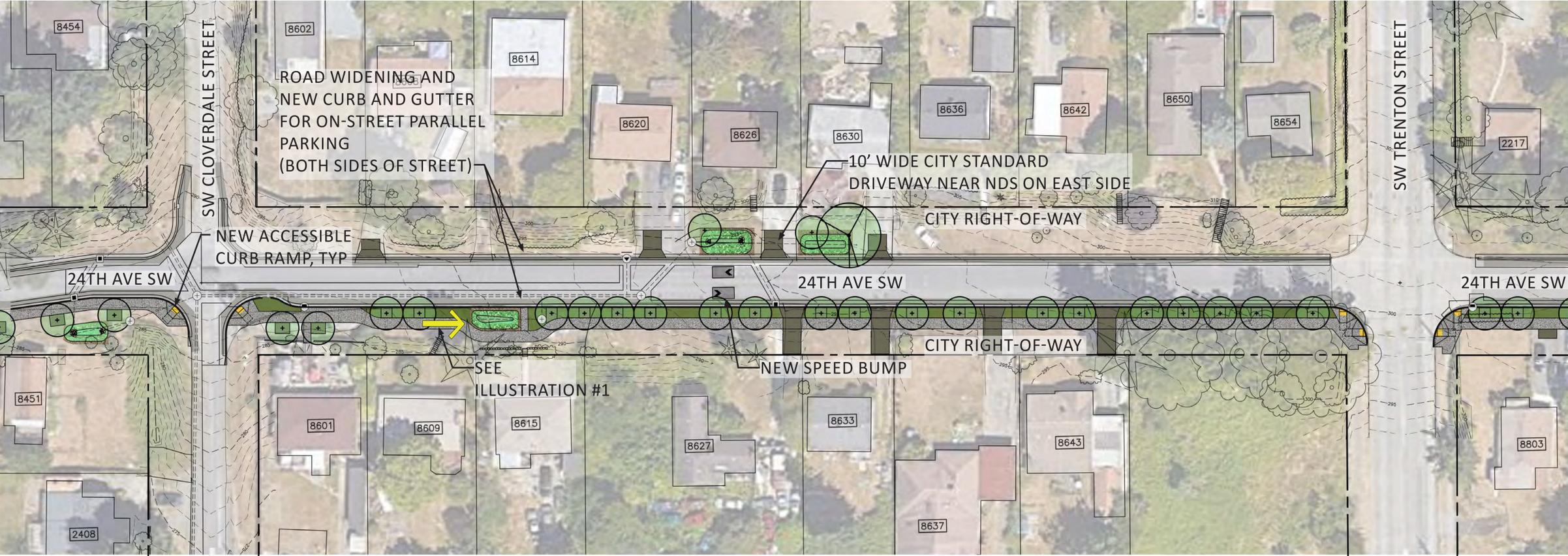
ROAD WIDENING AND NEW CURB ON THE WEST SIDE OF THE STREET PER PLANS. THE FULL EXTENTS OF EXISTING PAVEMENT REPAIR AND RESTORATION ARE NOT SHOWN FOR CLARITY.

# 24<sup>th</sup> AVE SW CORRIDOR



## 24th Ave SW: Cloverdale to Trenton

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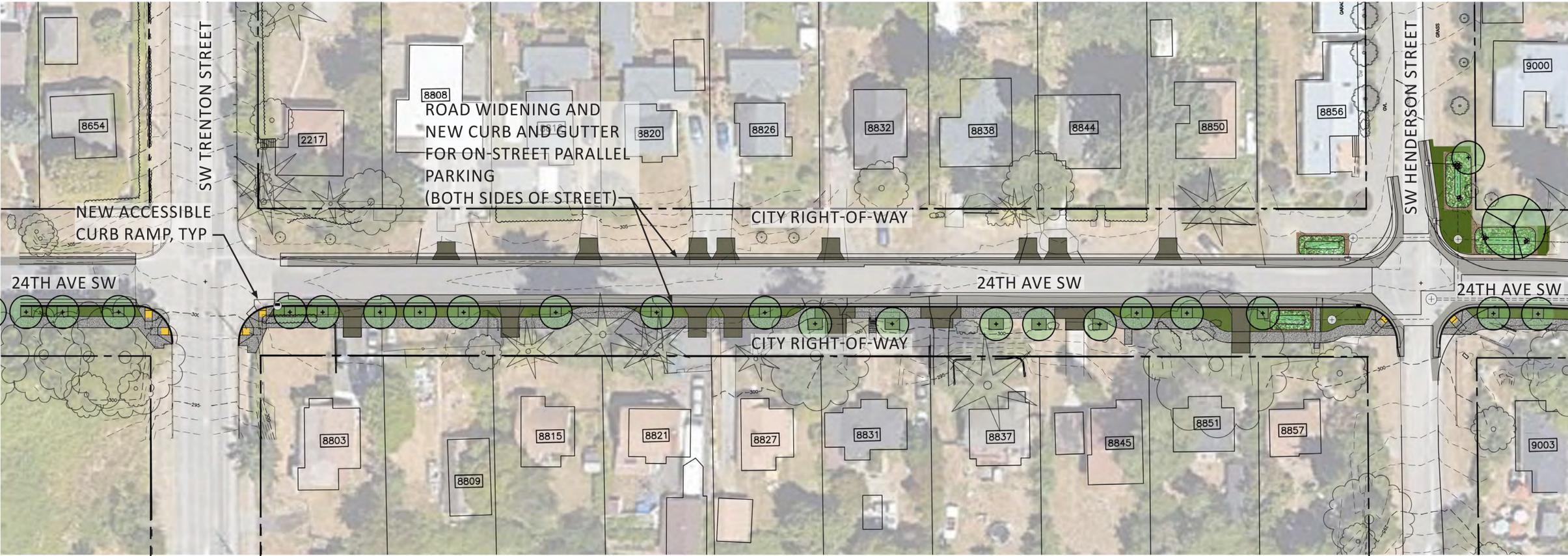
**FINAL DESIGN**

# 24<sup>th</sup> AVE SW CORRIDOR



## 24th Ave SW: Trenton to Henderson

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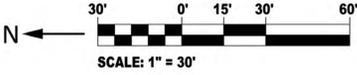
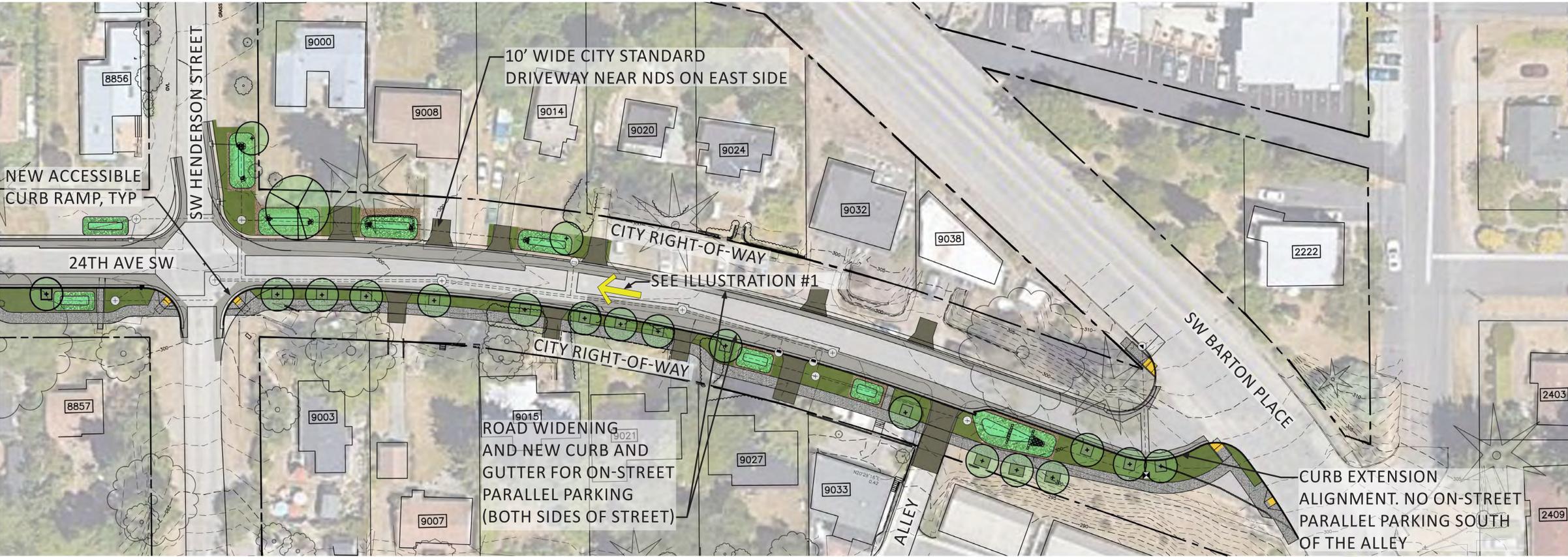
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# 24<sup>th</sup> AVE SW CORRIDOR



## 24th Ave SW: Henderson to Barton

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**FINAL DESIGN**