

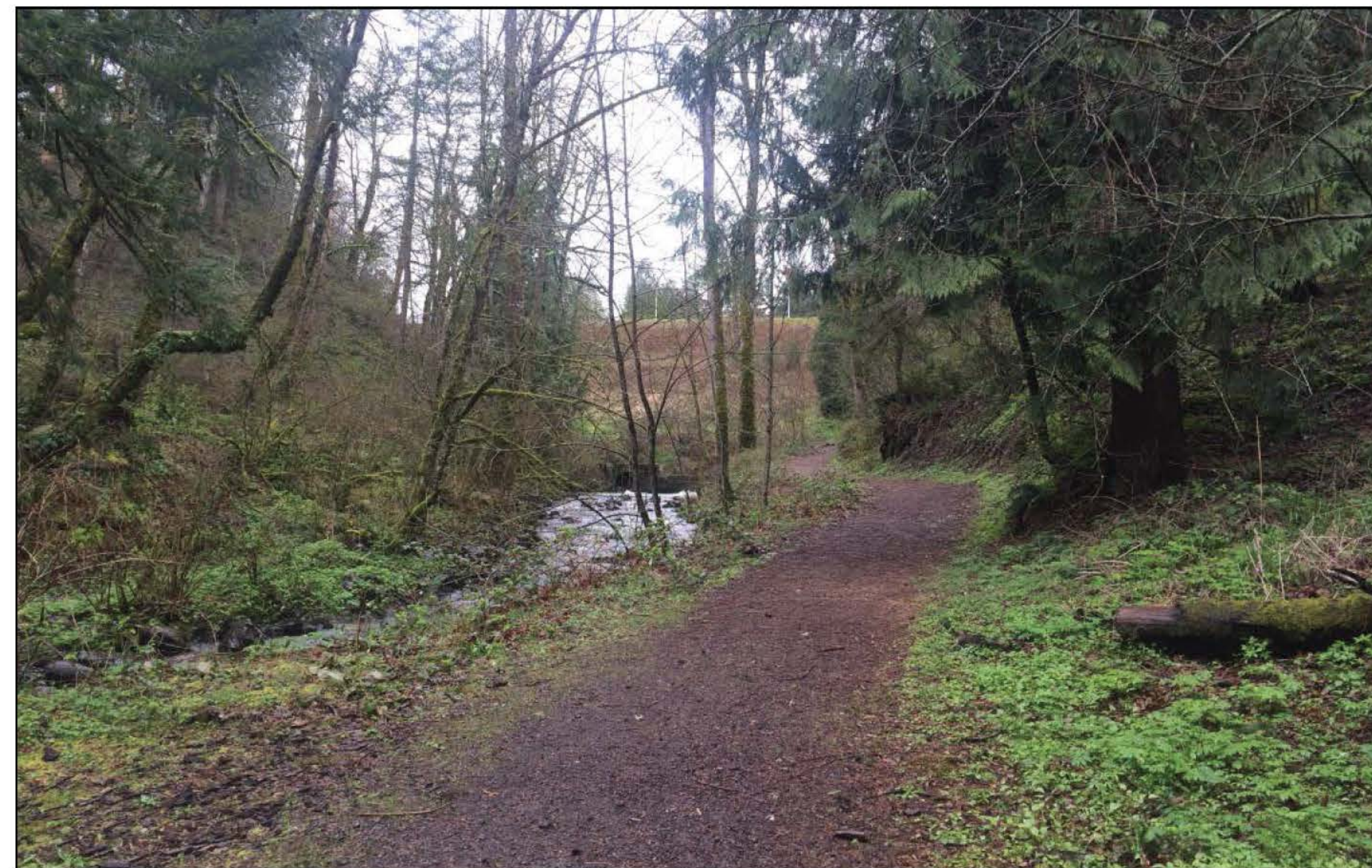
# PURPOSE

## WHAT IS THE PURPOSE OF TONIGHT'S MEETING?

- *Learn about a proposed trail in Troutdale from Depot Park to Mt. Hood Community College.*
- *Review and comment on route options and cross sections examined*
- *Discuss and document community concerns to be addressed now and as the trail develops in the future*



DOWNTOWN TROUTDALE



BEAVER CREEK



COLLEGE NATURE PARK

## TROUTDALE 40-MILE LOOP TRAIL MASTER PLAN

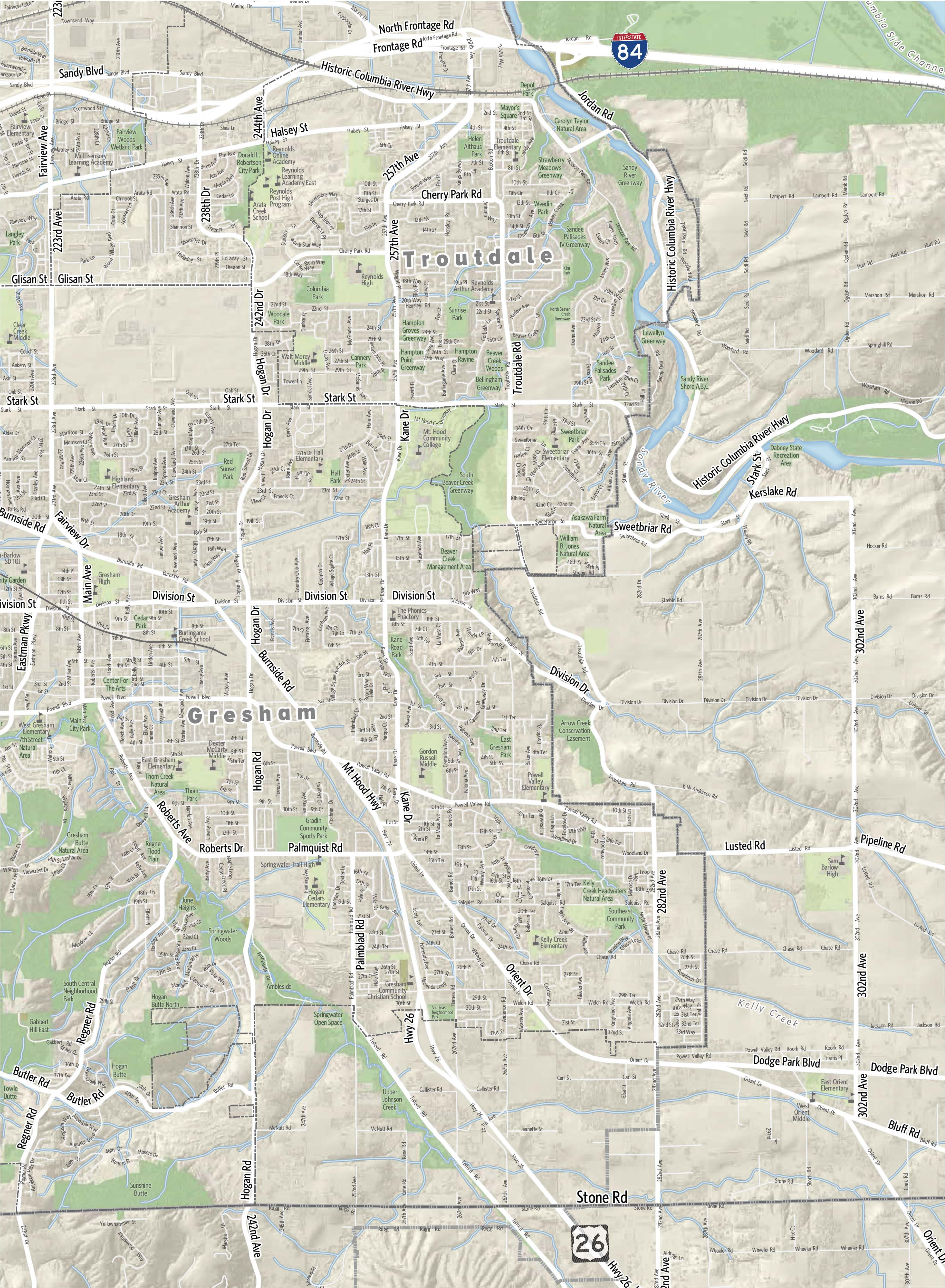


FEBRUARY 22, 2017



# WHERE DO YOU LIVE?

## PLACE A DOT WHERE YOU LIVE:

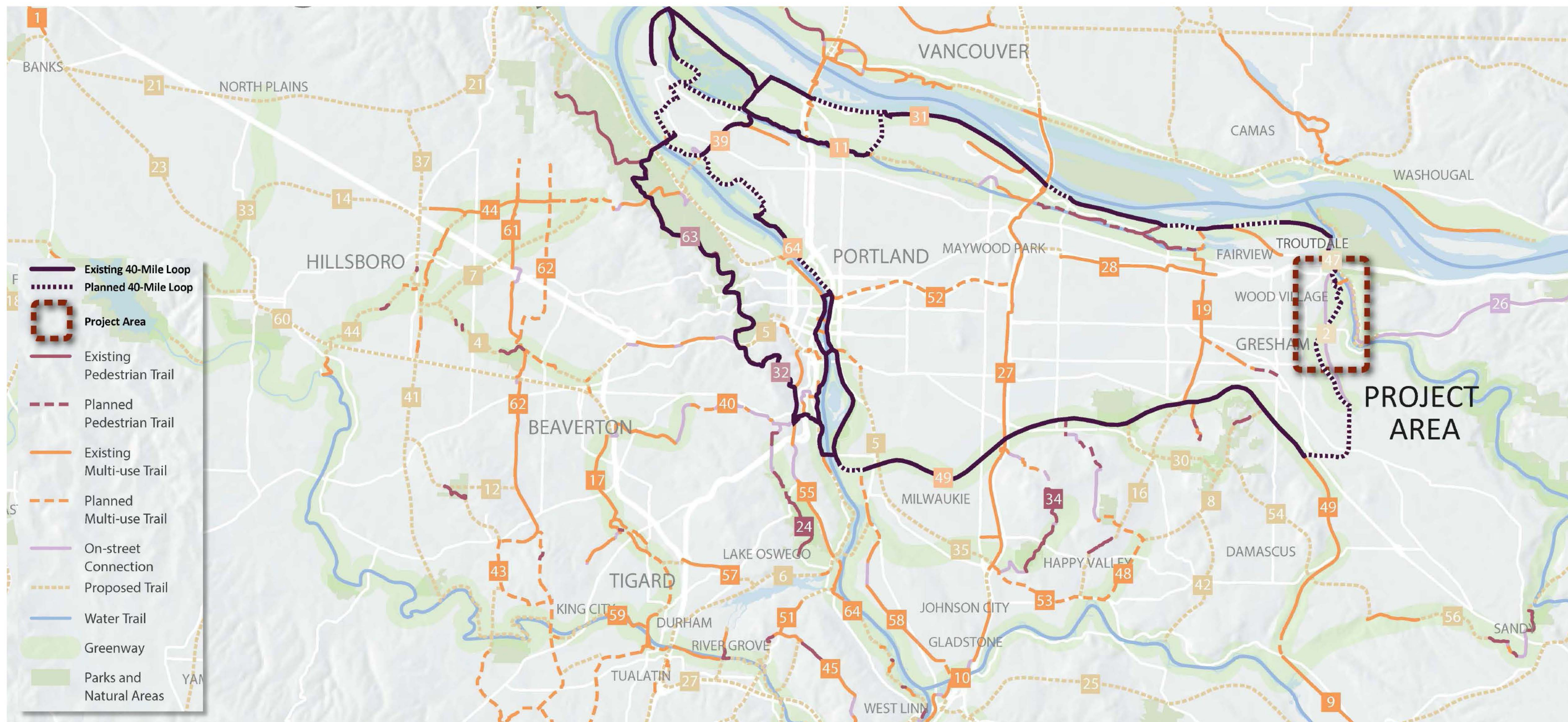


# TROUTDALE 40-MILE LOOP

# TRAIL MASTER PLAN



# REGIONAL TRAILS AND GREENWAYS

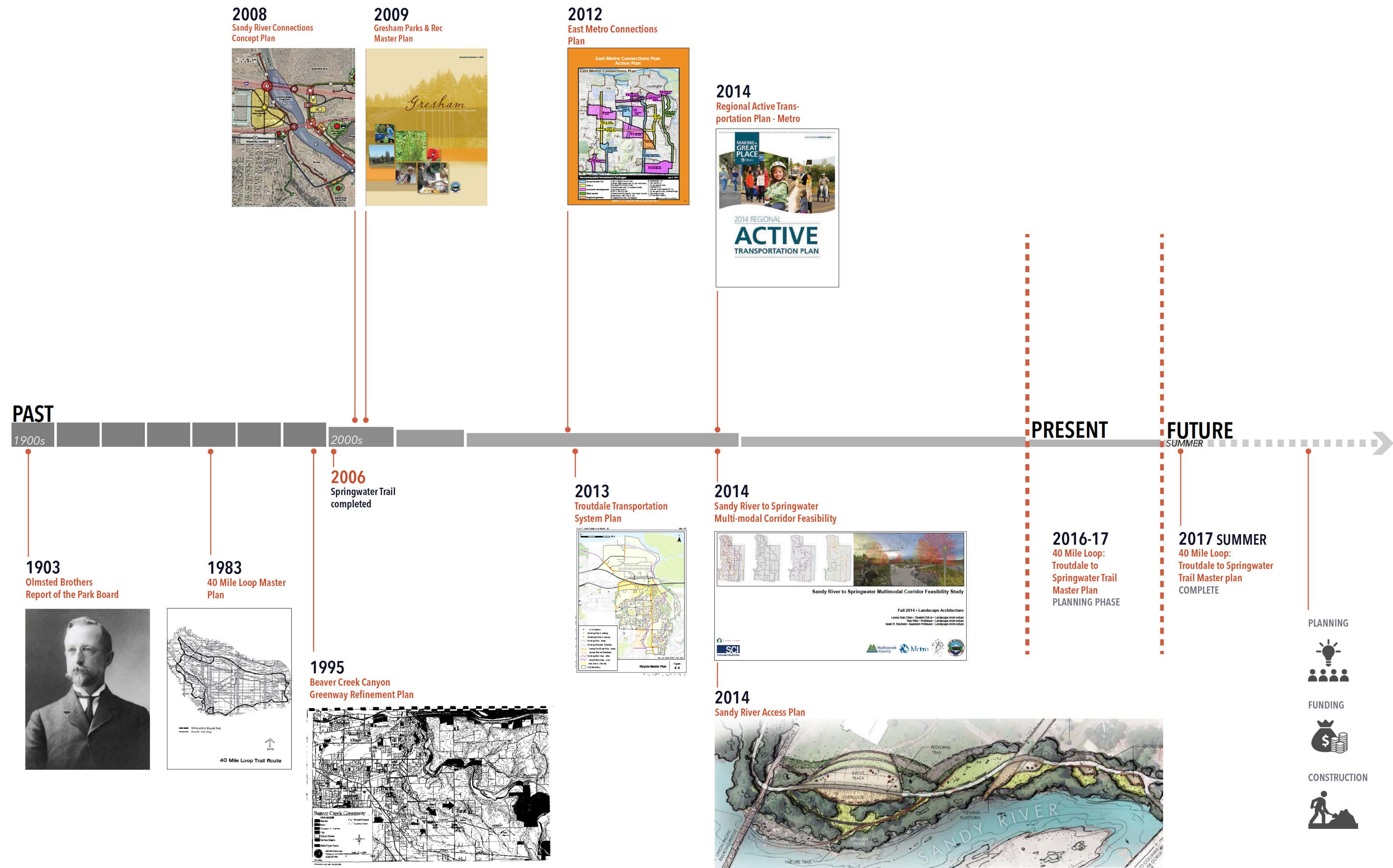


# TRAIL MASTER PLAN



# TIMELINE

## HISTORY OF 40-MILE LOOP PLANNING



## TROUTDALE 40-MILE LOOP TRAIL MASTER PLAN



# PROJECT GOALS

## WHAT WILL THIS PROJECT ACCOMPLISH?

### MOBILITY



- *Transportation*
- *Recreation*

### IMPLEMENTATION



- *Constructability*
- *Property ownership*
- *Cost*

### EXPERIENCES



- *Access to nature and key destinations*
- *Opportunities for all users*
- *Views to natural resources*
- *Family friendly*

### MANAGEMENT

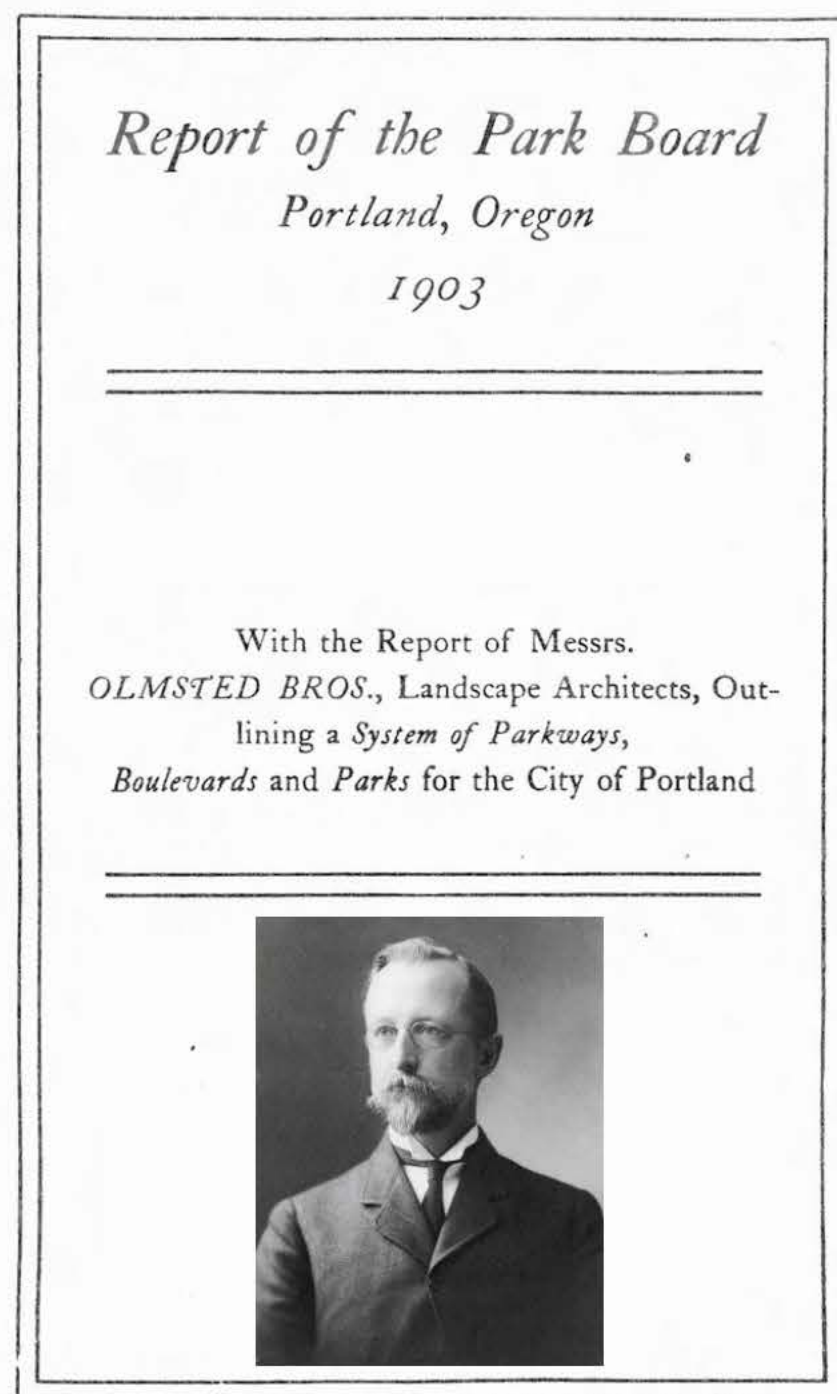


- *Safety*
- *Operations and maintenance*



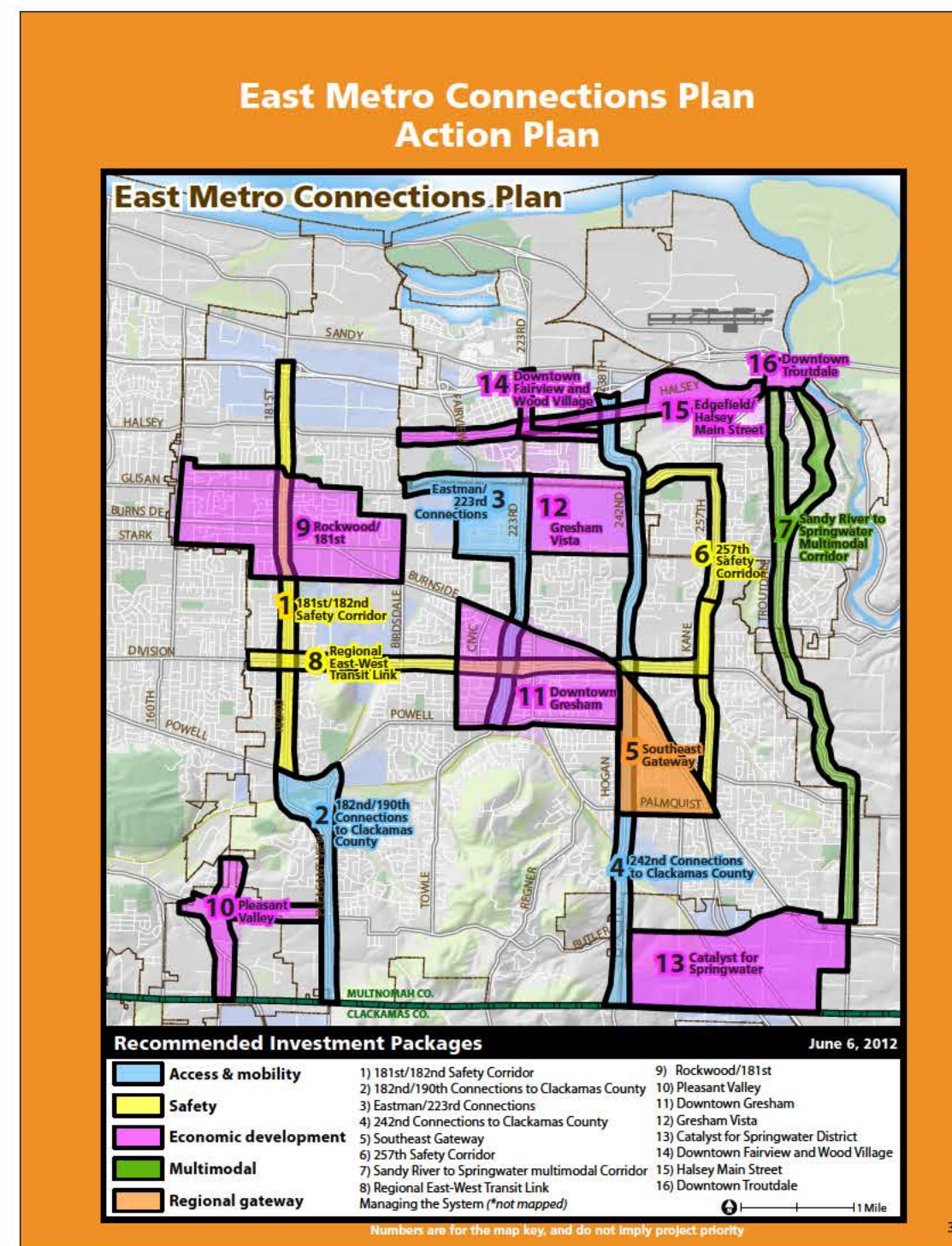
# PREVIOUS PLANS

## HISTORY OF 40-MILE LOOP PLANNING



### REPORT OF THE PARK BOARD 1903

The Olmsted Brothers' "Report of the Park Board" expressed the importance of linked greenspace throughout the city. These linkages were the first mention of the 40 Mile Loop.



### EAST METRO CONNECTIONS PLAN 2012

The East Metro Connections Plan was a partnership of Wood Village, Troutdale, Fairview, Gresham, Multnomah Village, Metro, and ODOT, and identifies opportunities for public and private investments within transportation corridors within the project area to improve connectivity and foster economic vitality.

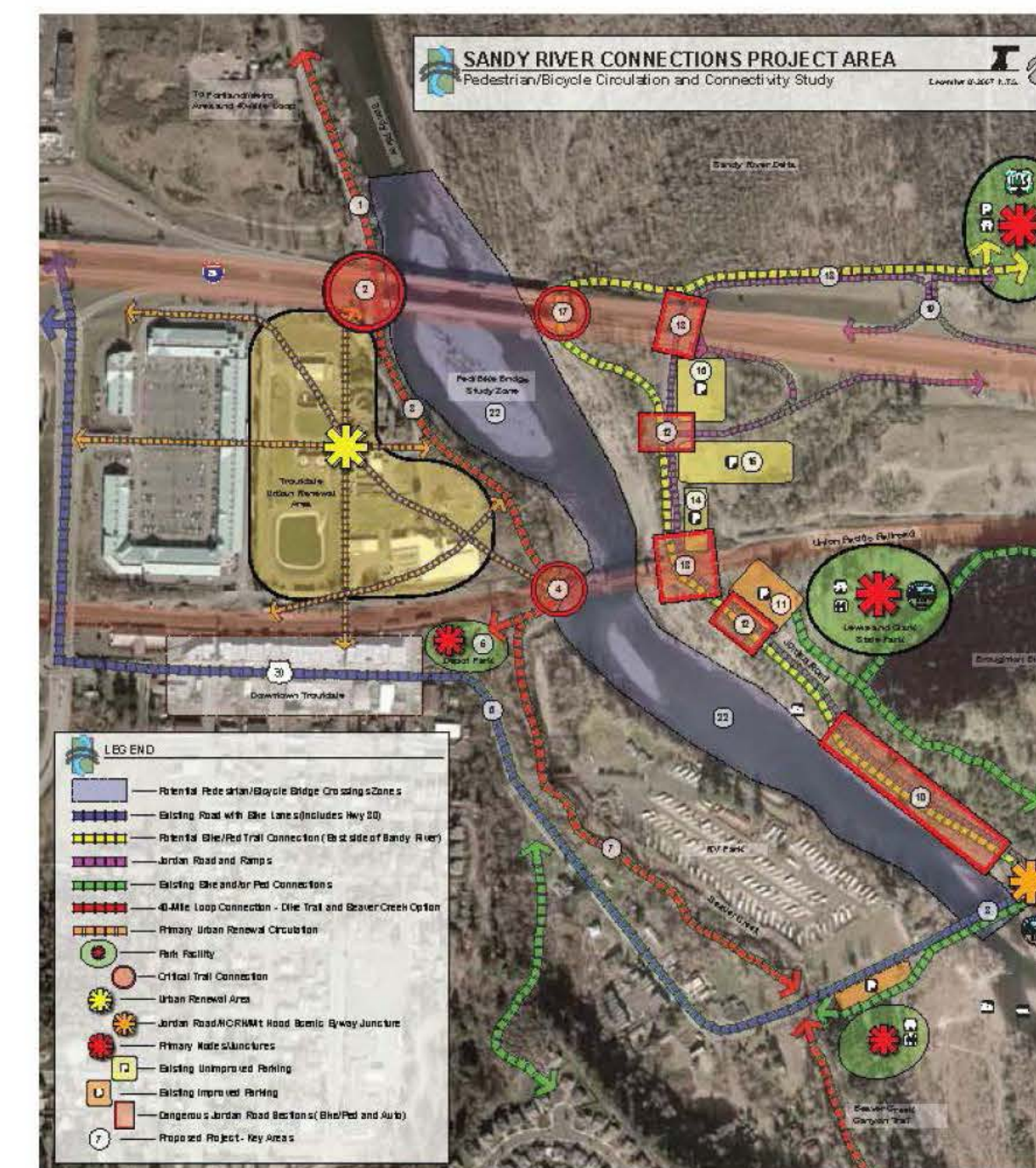
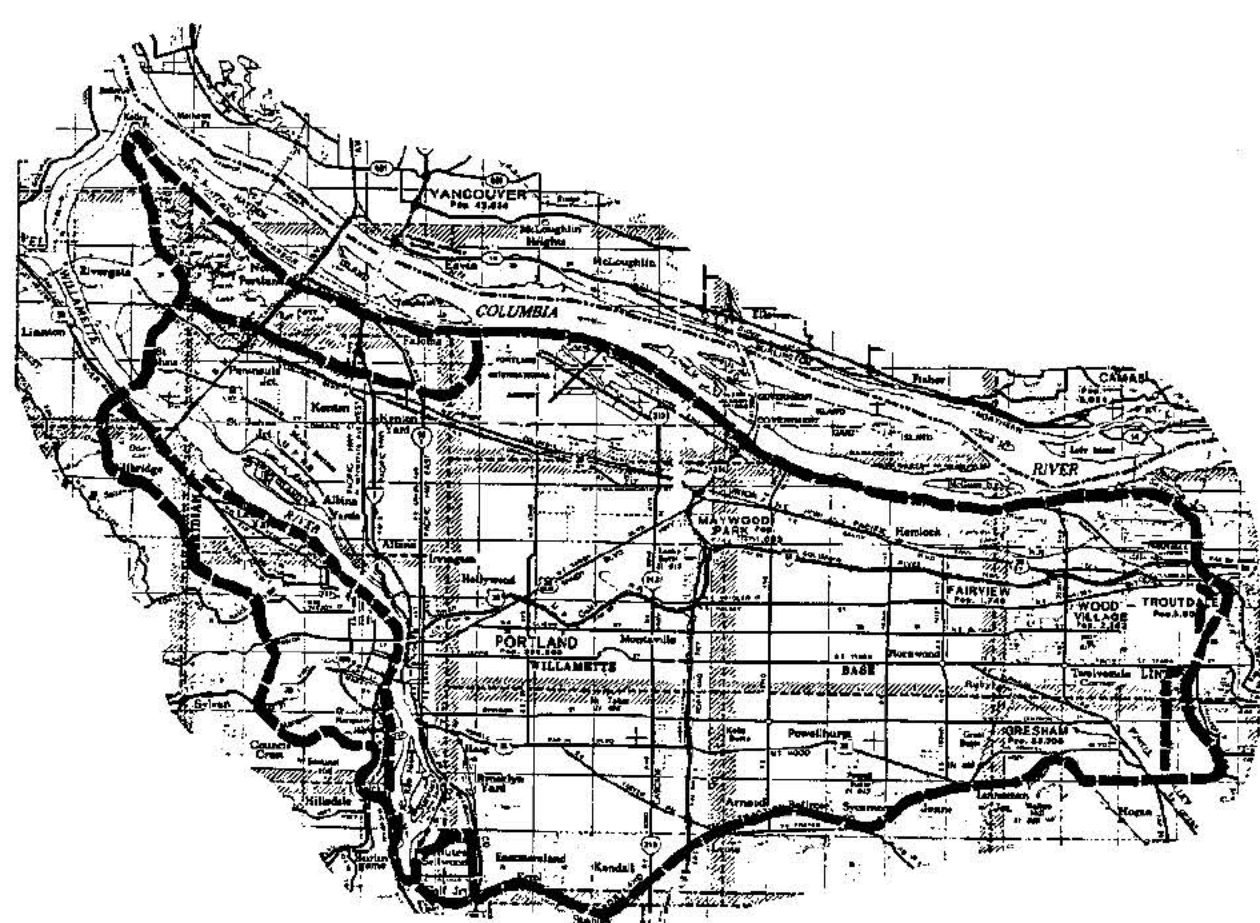


Figure 3 – The Sandy River Connections Project Area (enlarged foldout version at end of document)

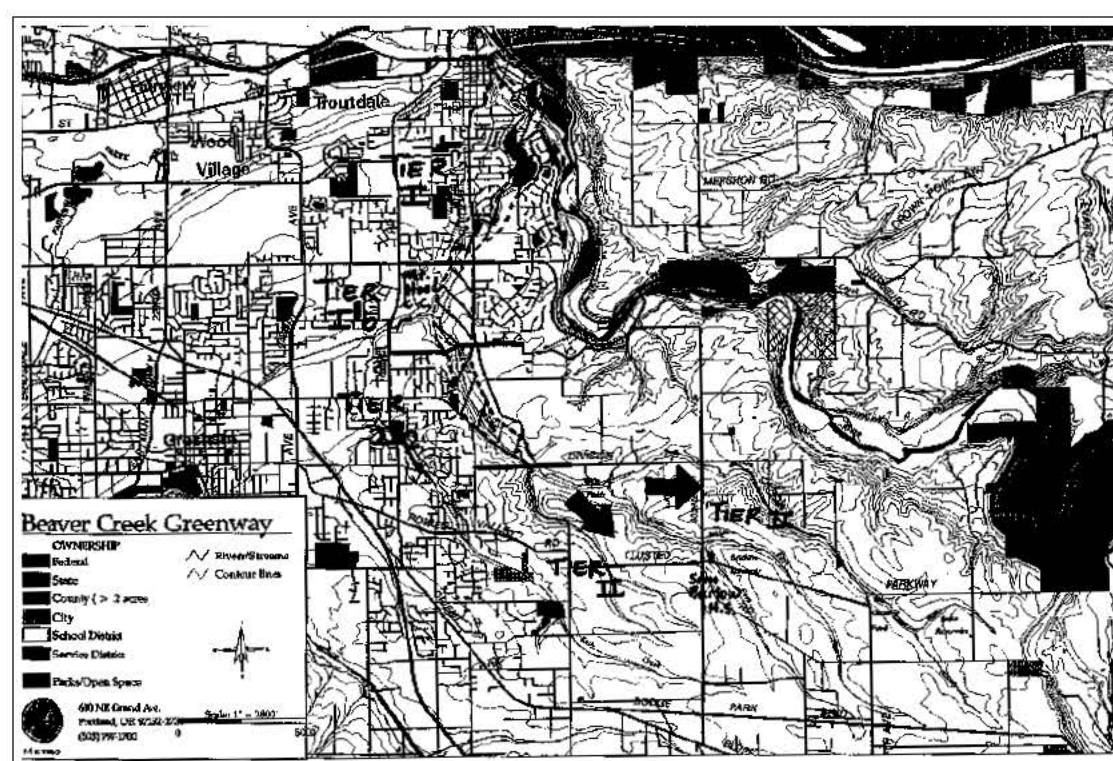
### SANDY RIVER CONNECTIONS CONCEPT PLAN 2008

The Sandy River Connections project area is considered the "Gateway to the Gorge". The Concept Plan provides a framework for partners to coordinate current and future opportunities for recreational, transportation, educational, and interpretive and natural resource improvements in the vicinity of the Sandy River Delta.



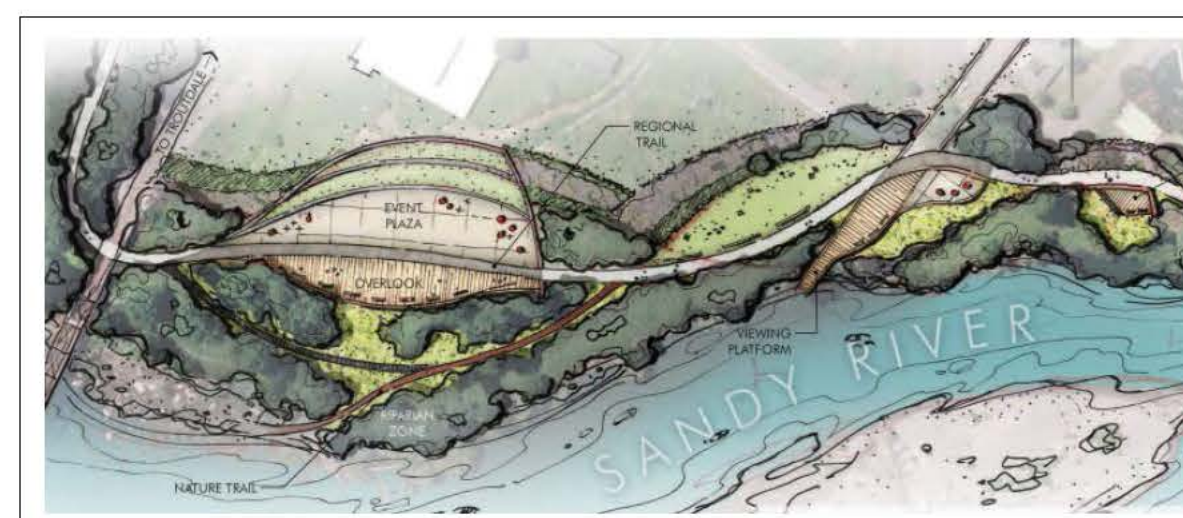
### 40-MILE LOOP MASTER PLAN 1983

This document is the basis for renewal of the original Olmsted Brothers Plan for Portland Parks prepared in 1903 that included a "connected system of parks and parkways." This Plan defined the mission of the 40 Mile Loop Land Trust. One objective was to complete the Loop by the year 2000.



### BEAVER CREEK CANYON GREENWAY REFINEMENT PLAN 1995

Identifies priority properties for acquisition for up to 8-miles of trail corridor, habitat restoration, and streambank re-vegetation. Trails in Beaver Creek Canyon form the northern part of the 40-Mile Loop through Troutdale.



### SANDY RIVER ACCESS PLAN 2014

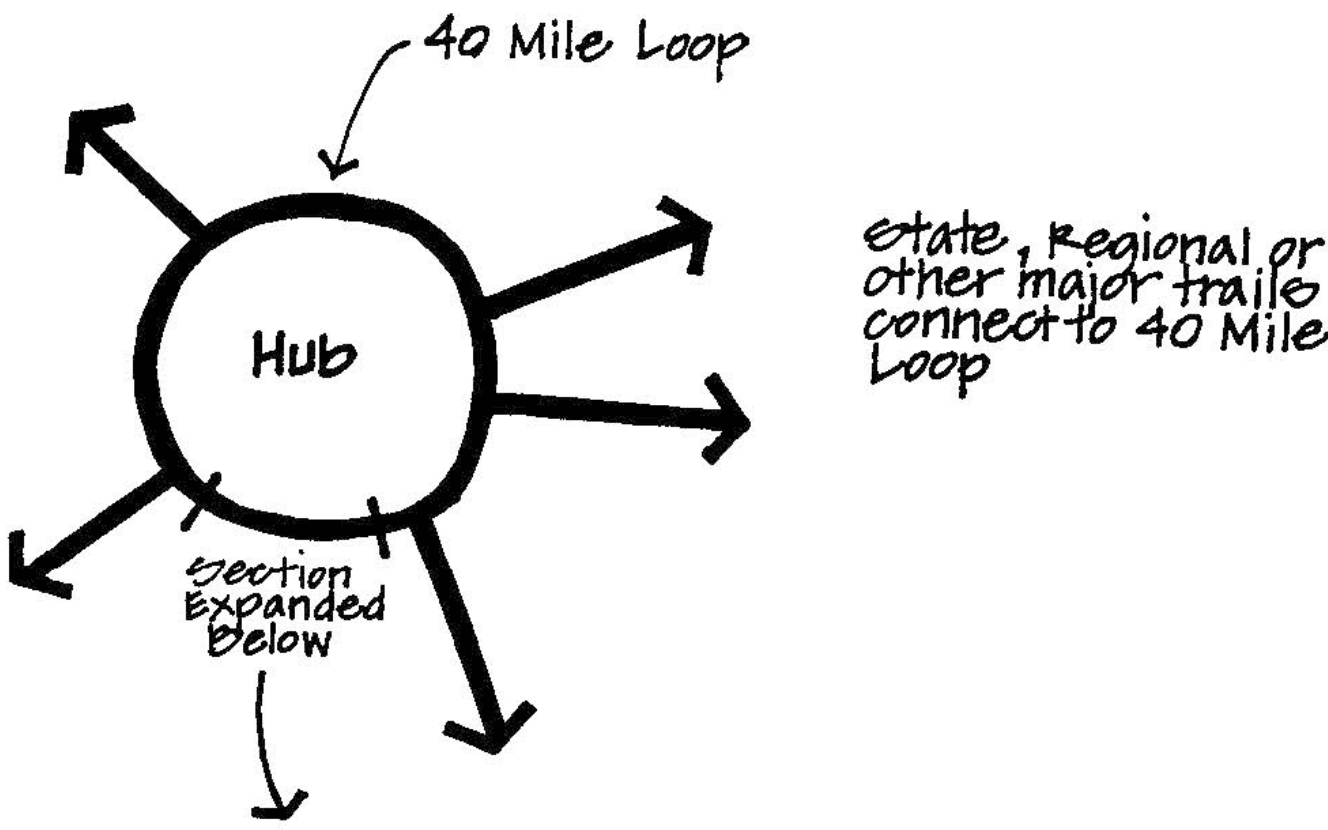
Addresses riparian restoration priorities of the Sandy Riverfront as well as natural and recreational values of the river to benefit the riverbank environment and the public. A multi-use trail along the Sandy River near downtown Troutdale will improve the ability to experience and access nature by connecting people to their watershed.

## TROUTDALE 40-MILE LOOP TRAIL MASTER PLAN

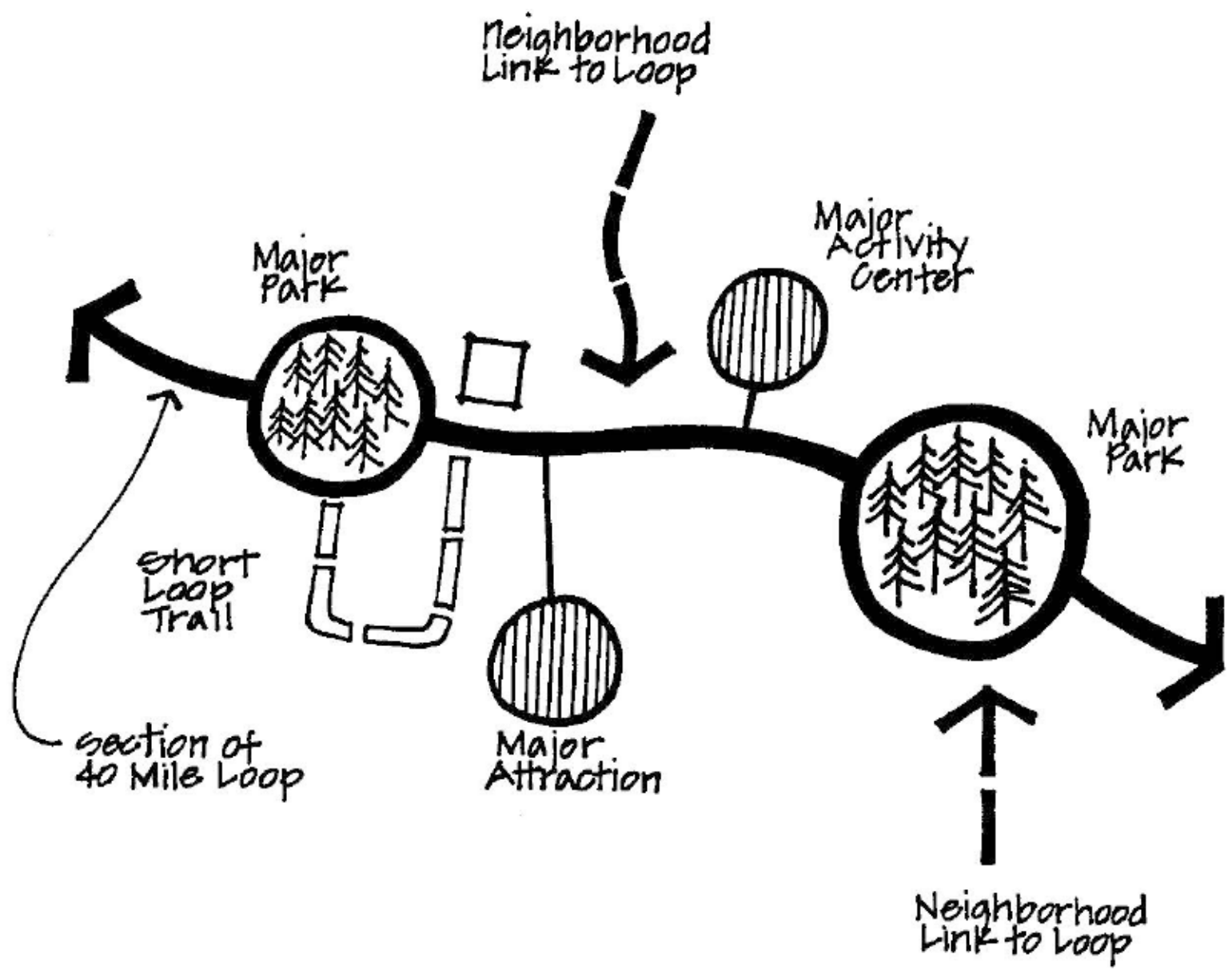
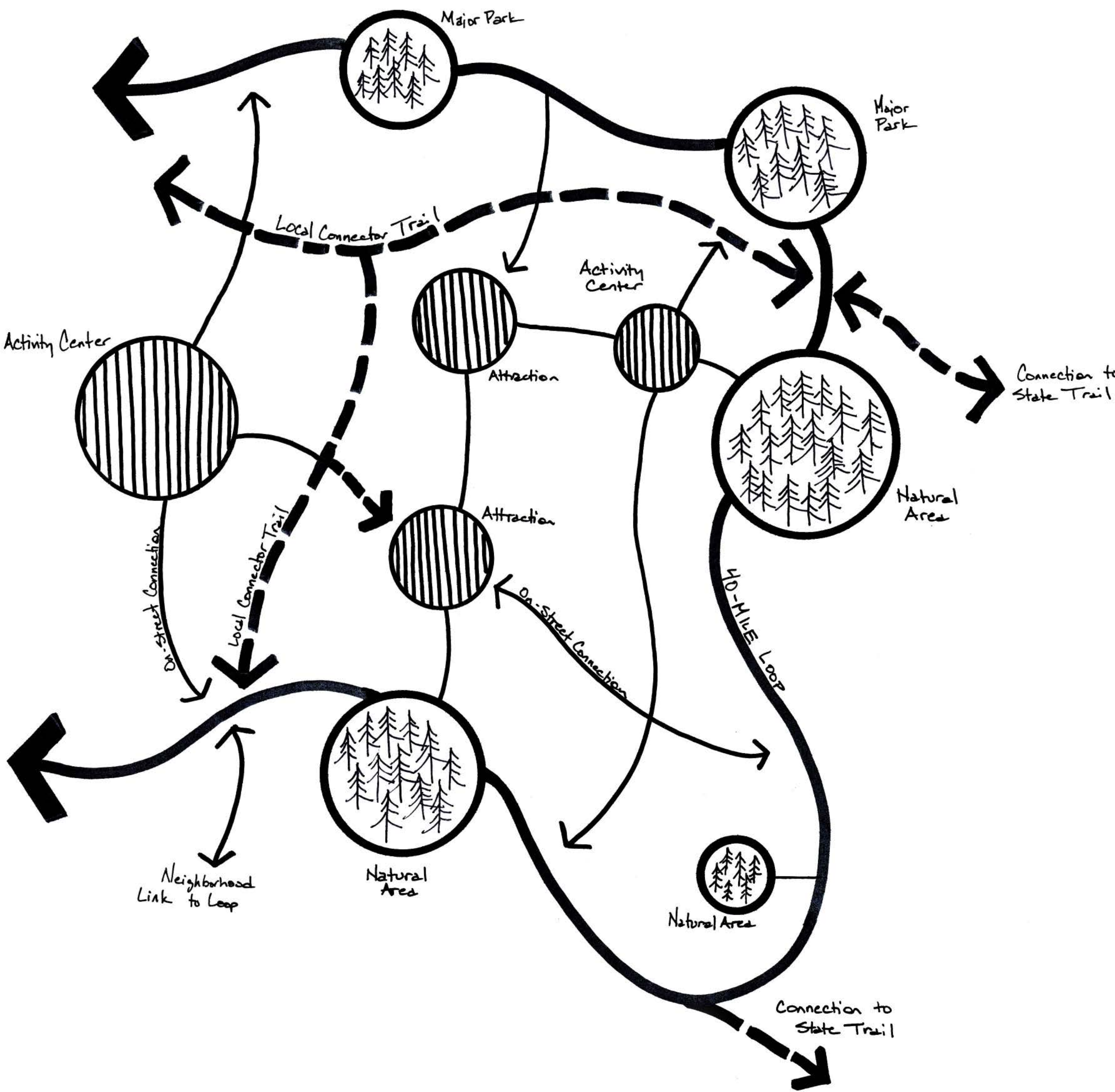


# HUB AND SPOKE

## CONCEPTUAL 40-MILE LOOP DESIGN



"The 40-Mile Loop is a system of parks and activity centers connected by open space corridors and hiking and bicycle trails."



"The Loop system provides neighborhood access to park, institutions, activity centers, and other points of interest throughout much of the Portland Metropolitan area."



# PROJECT HISTORY

WHAT IS THE PURPOSE? WHAT IS THE BACKGROUND?

*The Troutdale 40-Mile Loop Trail Master Plan will identify and document a preferred route for a new trail that closes the gap in the regional trail network between Depot Park in Troutdale and Mt. Hood Community College. A technical team and Stakeholder Advisory Committee have looked at several routes and options. The Master Plan and route will need to be approved by the City, County, and Metro.*



TROUTDALE 40-MILE LOOP  
**TRAIL MASTER PLAN**

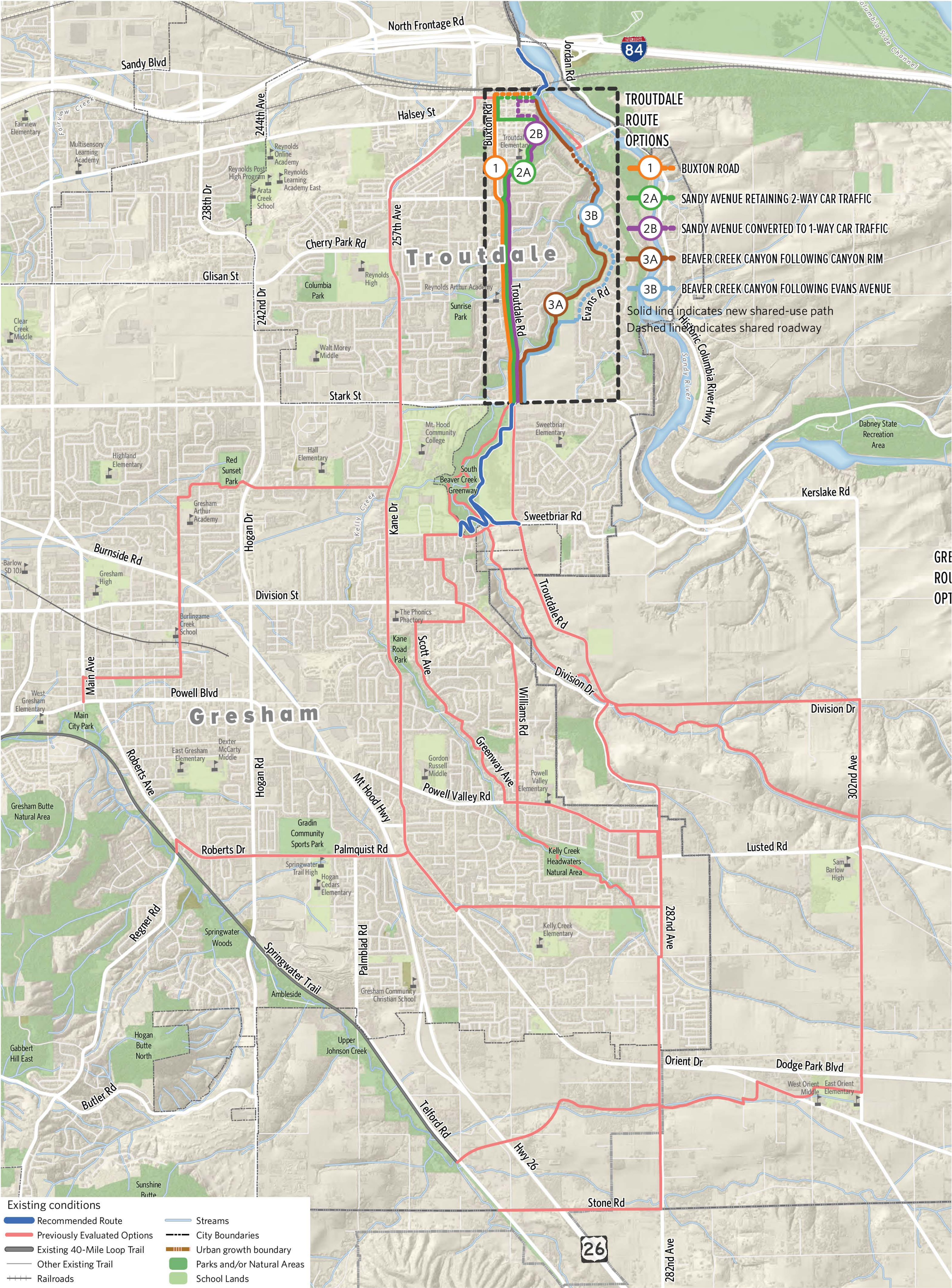


FEBRUARY 22, 2017



# ALIGNMENT OPTIONS

## ROUTES CONSIDERED TO-DATE



# TROUTDALE 40-MILE LOOP

# TRAIL MASTER PLAN



# TRAIL TYPES

## WHAT WILL THE TRAIL LOOK LIKE?



### ***Shared Use Path***

- Typical standard for regional trails (12' wide, paved surface)
- Requires property acquisition through purchase or easement
- Opportunities to connect with nature and enhance environmental stewardship
- Cyclists, pedestrians, runners, and skaters share the path
- Highest degree of comfort for users of all ages and abilities
- Plantings and other design elements can help brand the path as part of the 40-Mile Loop
- Construction can be costly depending on the need for bridges and retaining walls



### ***Side Path***

- Multi-Use Path adjacent to an existing road
- Uses available road right-of way; does not require additional property acquisition
- Barrier separates the path from the adjacent vehicles
- Intersections must be carefully designed to cue motorists that they are crossing the path and to alert path users of crossing vehicles
- Cyclists, pedestrians, runners, and skaters share the path
- Street trees, plantings, and other design elements can help brand the street as part of the 40-Mile Loop
- Construction can be costly depending on adjacent land uses and utilities



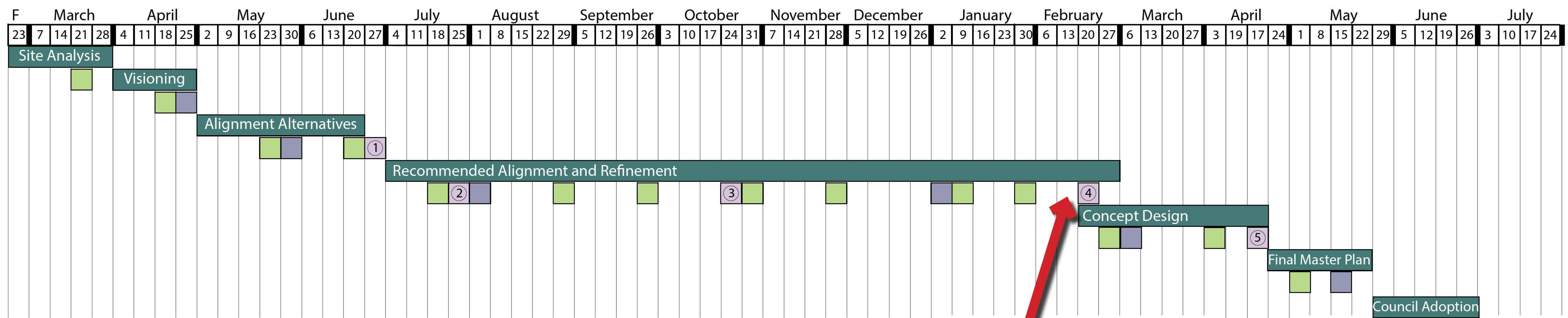
### ***Neighborhood Greenway***

- Prioritizes streets for bicycle and pedestrian traffic
- Uses existing neighborhood streets; does not require any additional property acquisition
- Low volume and low speed streets
- Signs and pavement markings help users follow the route
- Street trees, plantings, and other design elements can help brand the street as part of the 40-Mile Loop
- Intersection improvements help improve connectivity
- Cost effective



# PROJECT SCHEDULE

## WHERE ARE WE IN THE PROCESS?



### Project Management Team

Robert Spurlock	Metro
Chris Damgen & Ryan Krueger	City of Troutdale
Robin Wilcox & Charles Brucker	PLACE
Kristen Kibler	JLA

### Stakeholder Advisory Committee

Barb Adams (Oregon Equestrian Trails)  
Bob Akers (40-Mile Loop Land Trust)  
Matthew Barney (Gresham Area Chamber of Commerce)  
Julie DiLeone (East Multnomah Soil and Water Conservation District)  
Charlie Foss (Troutdale Parks Advisory Committee)  
Charles George (Mt Hood Community College)  
Joe Lagerstrom (Powell Valley Neighborhood Association)  
Karen Young (West Columbia Gorge Chamber of Commerce)  
Greg Olson (Multnomah County Bicycle and Pedestrian Citizens Advisory Committee)  
Shirley Prickett (Troutdale Planning Commission)  
Charles Te m (K ily Creek Neighborhood Association)

Elaine Stewart / Kate Holleran (Metro)  
Lake McTighe (Metro)  
Barbara Edwardson (Metro)  
Kathy Majidi / Mike Wallace (Gresham)  
Joanna Valencia / Allison Boyd (Multnomah County Transportation)  
Brendon Haggerty / Becky Bodonyi (Multnomah County Health)  
Sandra Hikari (ODOT)

### Community Engagement

- ① Public Open House
- ② Farmers Market Tabling
- ③ Neighborhood Presentations
- ④ Project Workshop - Troutdale
- ⑤ Public Open House

### Project Task



## TROUTDALE 40-MILE LOOP

# TRAIL MASTER PLAN



# HEARING FROM THE COMMUNITY

*In 2016, community members were asked to think about route locations, let us know about ideas and concerns, and share information with their neighbors.*

- *Stakeholder advisory committee meetings – the committee includes agency staff and community members, and has helped develop project goals, trail routes, and discussed issues.*
- *Summer Community Outreach*
  - *Open House – June*
  - *Troutdale Summerfest – July*
  - *Gresham Arts Festival – July*
- *Area tours with the committee, neighbors, and Mt Hood Community College*
- *Presentations to City and County organizations, committees, and commissions*
- *Phone calls and email*



TROUTDALE 40-MILE LOOP  
**TRAIL MASTER PLAN**



FEBRUARY 22, 2017



# WHAT PEOPLE ARE SAYING

## MANY SUPPORTIVE

*There are many who would value a trail to get around their community, exercise and enjoy nature. The following is a sampling of suggestions we've heard:*

“We request that you consider making the trail wide enough for both walkers and bikers.”

“My preferences are for a more natural, green corridor type of route.”

“Please consider the scenic opportunities of the trail and steer away from the busy thoroughfares.”

“As a 70 year old, my wife and I are partial to biking on dedicated paths. Sharing the road with latte drinking texters is risky business. Paved paths are ideal for us. We love Springwater trail.”

“As challenging as a paved trail would be, it would allow the most equitable access for all people.”

“If this trail was added, not only would I have easier access to bike to work, but my son and his friends would have easier access to nature and to meet each other by bike. We have so little access to parks in our neighborhood and our children need something to do besides play video games inside!”

TROUTDALE 40-MILE LOOP  
**TRAIL MASTER PLAN**



FEBRUARY 22, 2017



# WHAT PEOPLE ARE SAYING

## MANY CONCERNED

*There are many who worry that a trail would impact livability in Troutdale. Concerns include illegal camping, crime and safety, and impacts to the environment. The following are a sampling of concerns we've heard:*

“It’s sad that such a great idea can’t be for families due to the lack of safety!”

“Please do not move forward until these issues are resolved.”

“Until you find a way to make the Springwater Trail safe for everyone, I do not think money and effort should go into connecting the trail to other locations. This was one of my favorite bike routes before the homeless took over. We need to find a better solution for the homeless.”

“I would like to see the trail, but not until you can ensure the public we will be safe from undesirable people doing bad things.”

“Beaver Creek Canyon is one of the nicest wildlife corridors in the area. I am concerned that a busy trail could diminish the wildlife habitat.”

“I’m really concerned about riff raff traffic being in our neighborhood. Yet, I welcome the improvements—not sure how to find a balance.”



# EVERYONE VALUES HAVING SAFE COMMUNITIES AND PUBLIC PLACES

*Concerns about illegal camping and safety are the primary issues we have heard. These concerns are coming from both those who are supportive of the trail and those who are not.*

*People are saying:*

Address regional housing issues

Homelessness should not be the main reason to avoid community investments.

Keep the trail clean and safe

Fund trail monitoring and enforcement

Wait until the current issues on the Springwater Trail are resolved

Use lighting and trail design to make a safer trail

*Can we find a good trail route while knowing these issues need to be addressed? Can these concerns be addressed before a trail is funded for construction 5, 10, or 15 years from now?*

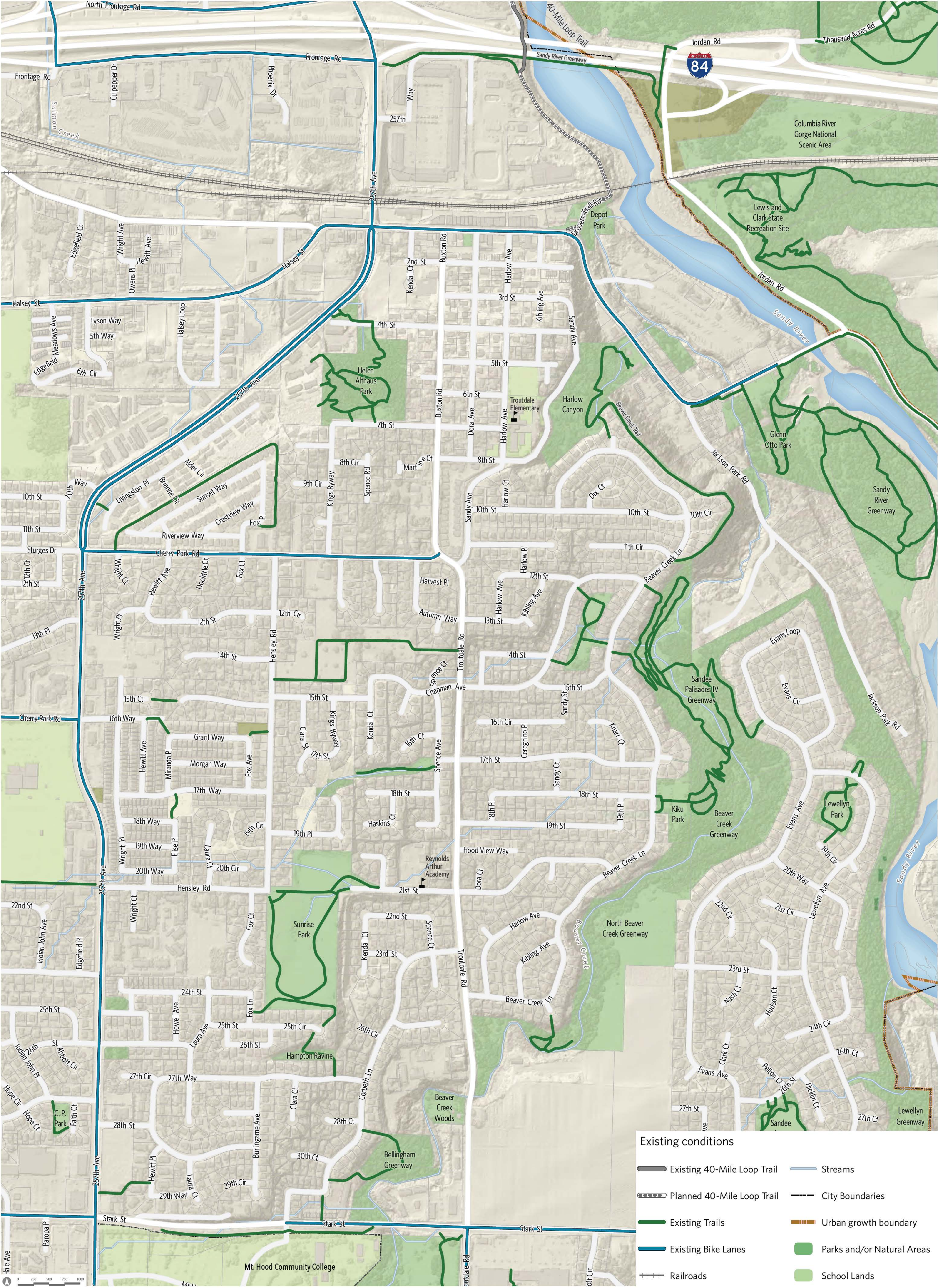
*What would a successful, safe, and welcoming trail look like for your community?*





# STUDY AREA

## EXISTING TRAILS AND BIKE LANES



# TROUTDALE 40-MILE LOOP

# TRAIL MASTER PLAN



# ALIGNMENT OPTIONS

## FIVE POTENTIAL ROUTES



# TROUTDALE 40-MILE LOOP

# TRAIL MASTER PLAN



# EVALUATION CRITERIA

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## WHAT WAS EXAMINED?

- *Connections to parks, recreation, community centers, and schools*
- *Directness of travel*
- *Topography/Steepness*
- *Property ownership*
- *Economic impact potential*
- *Conformation with previously adopted plans*
- *Safety and security*
- *Cost*
- *Ease of implementation*
- *Environmental impact*
- *User experience*
- *Traffic volumes*
- *Crossing conflicts*
- *Parking impact*

*NOTE: Some routes were removed during earlier evaluation. Examples: 257th Ave. is currently prioritized as a freight route, which is not ideal for walkers and bicyclists. Using the Historic Highway to the Stark Street Bridge was also explored, but there was not adequate space for the trail next to the road.*



# ALIGNMENT ADOPTION

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## HOW WILL THE ROUTE BE SELECTED?

*Troutdale City Council, the Mt. Hood Community College Board, Multnomah County Commission, and Metro Council will consider advisory committee recommendations this spring before voting on the Master Plan. The Master Plan will document a recommended Troutdale route, general character of the trail segments, and issues or concerns that have been or will need to be resolved.*



# COMMUNITY INPUT

## HOW CAN YOU HELP?

*Before a preferred route is selected, please share your thoughts on opportunities and challenges for the Troutdale Options next to each map or on your comment form.*



TROUTDALE 40-MILE LOOP  
**TRAIL MASTER PLAN**



FEBRUARY 22, 2017



# ROUTE OPTION 1

## BUXTON ROAD



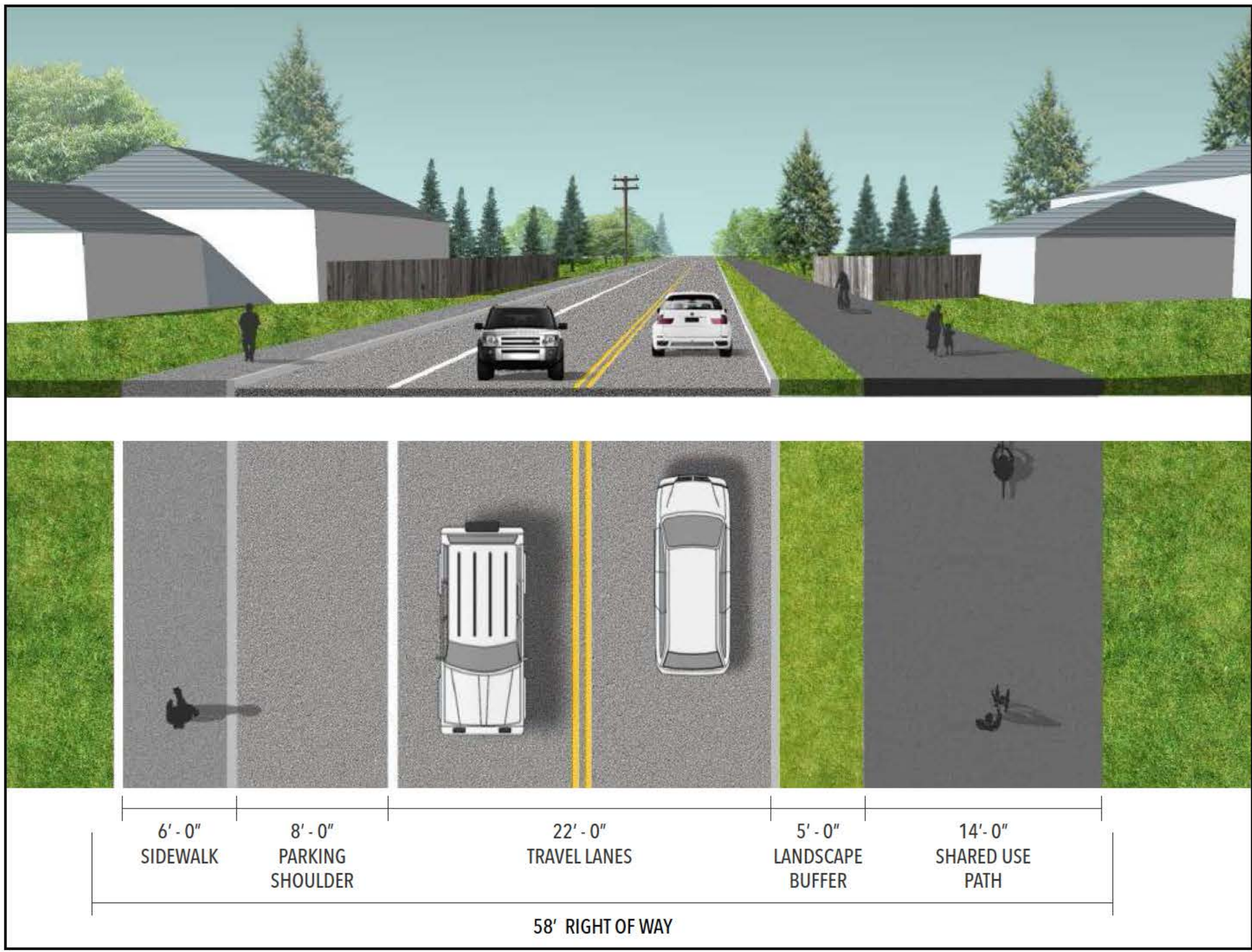
# TROUTDALE 40-MILE LOOP

# TRAIL MASTER PLAN

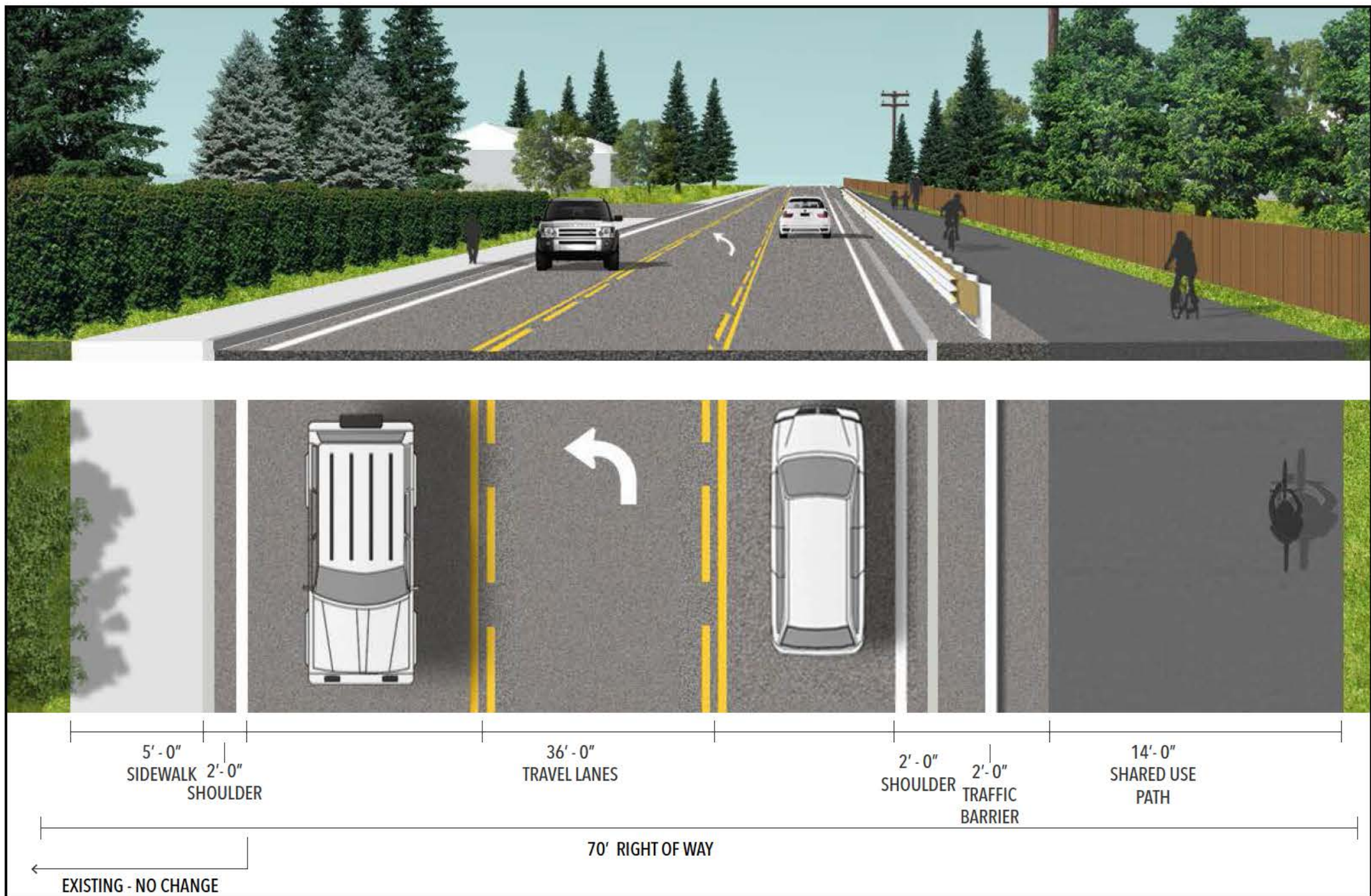


# ROUTE OPTION 1

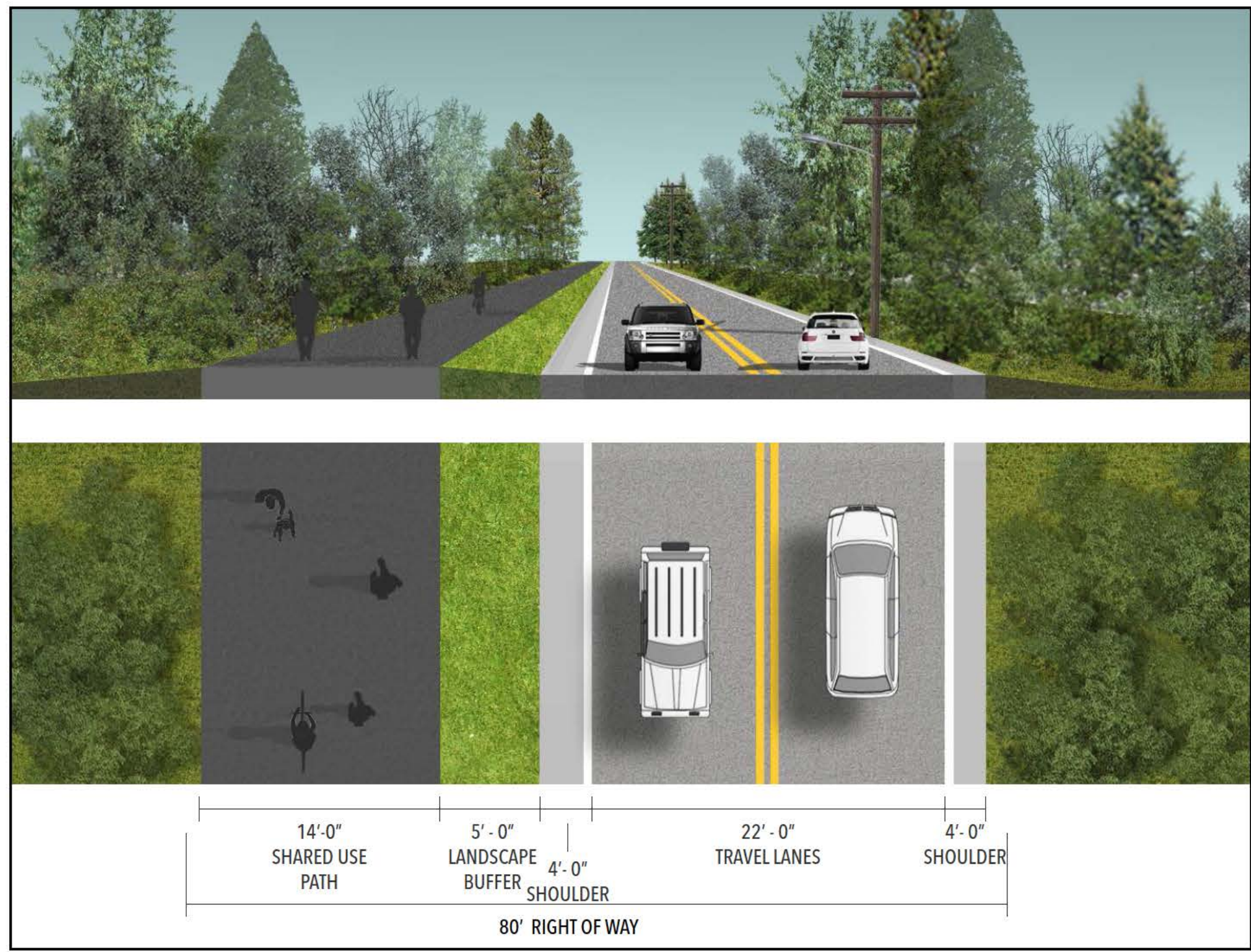
## BUXTON ROAD CROSS SECTIONS



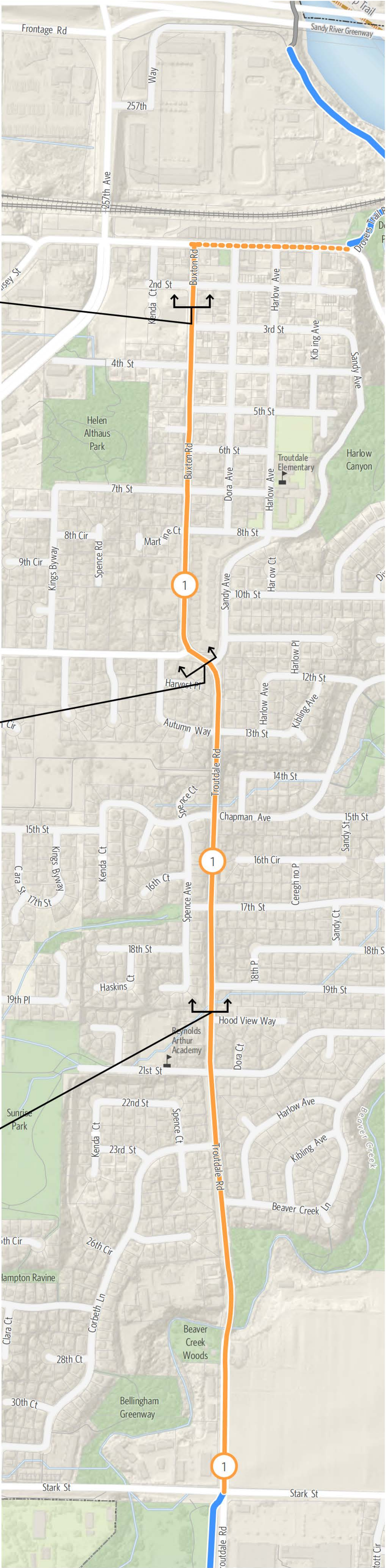
**Side Path - east side of Buxton Road**



**Side Path - north/east side of Troutdale Road**



**Side Path - west side of Troutdale Road**





# ROUTE OPTION 2

## SANDY AVENUE



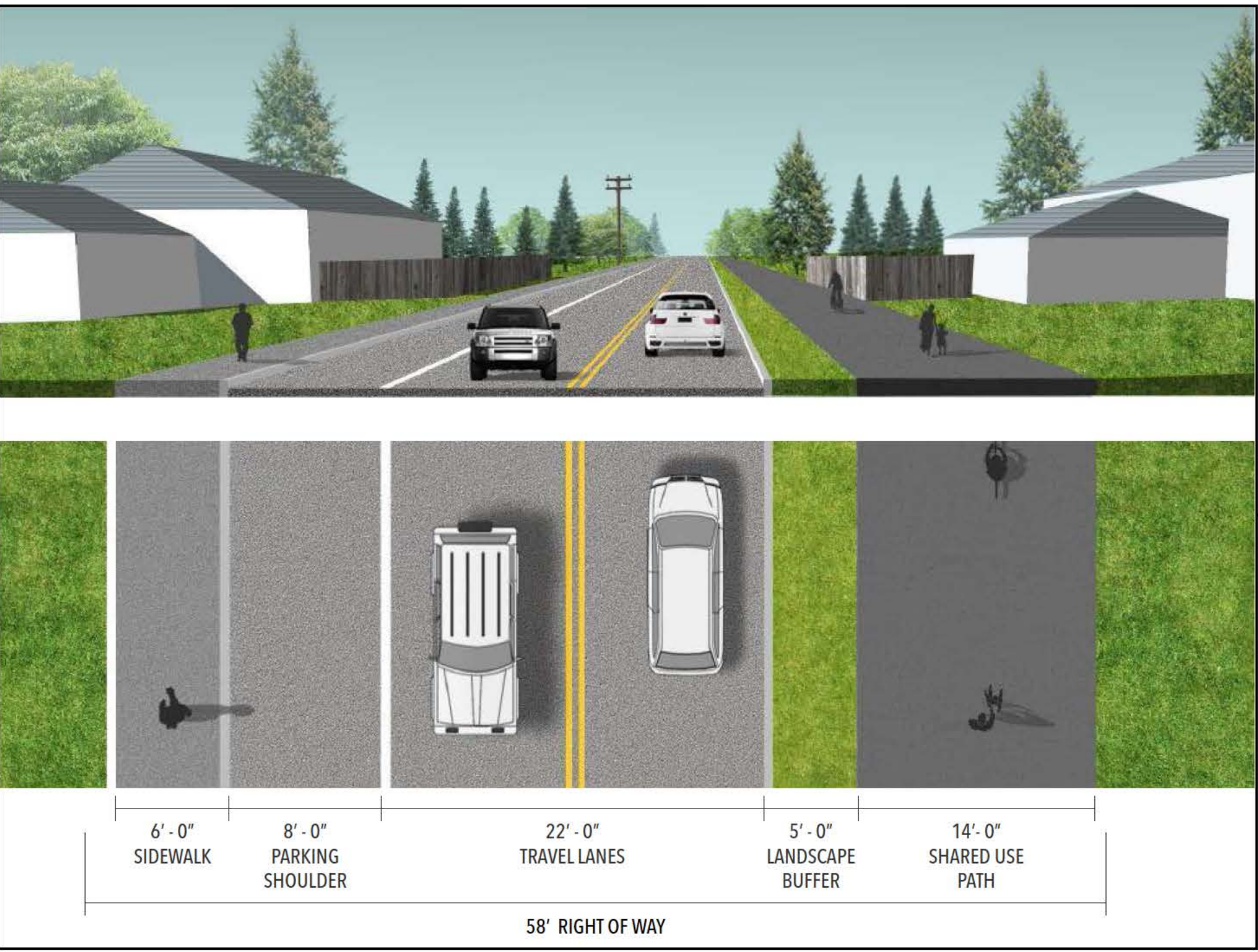
# TROUTDALE 40-MILE LOOP

# TRAIL MASTER PLAN

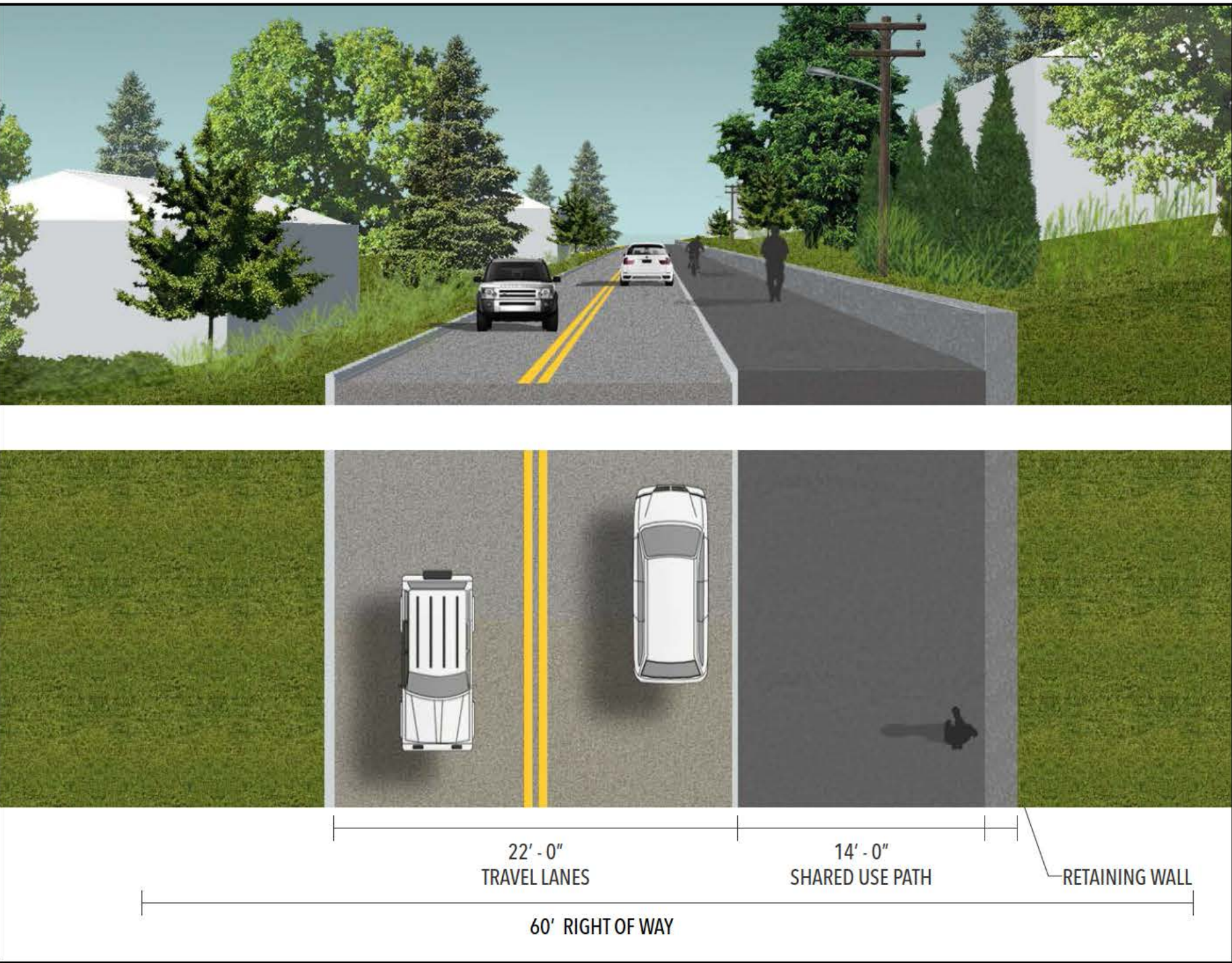


# ROUTE OPTION 2A

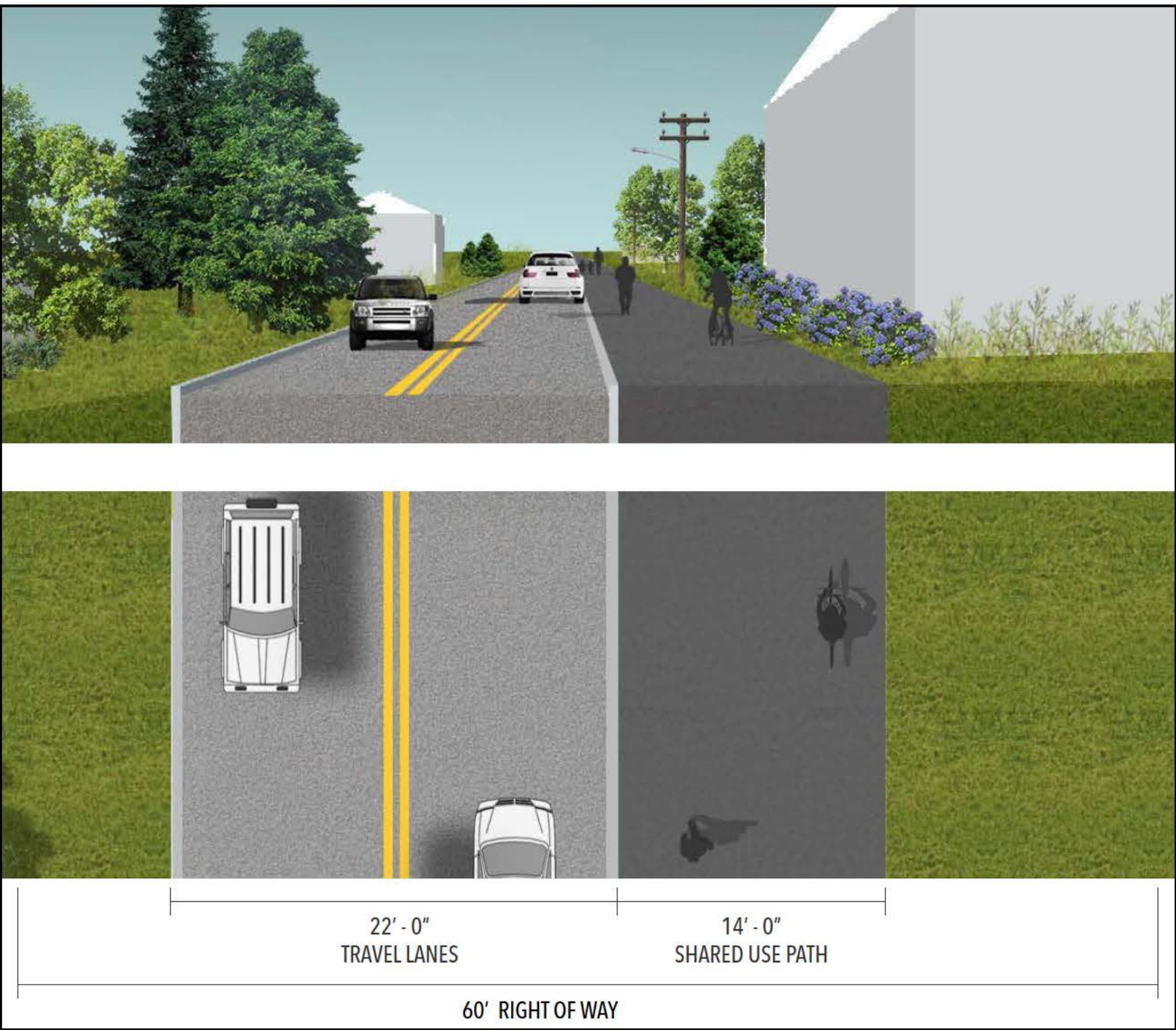
## SANDY AVENUE CROSS SECTIONS



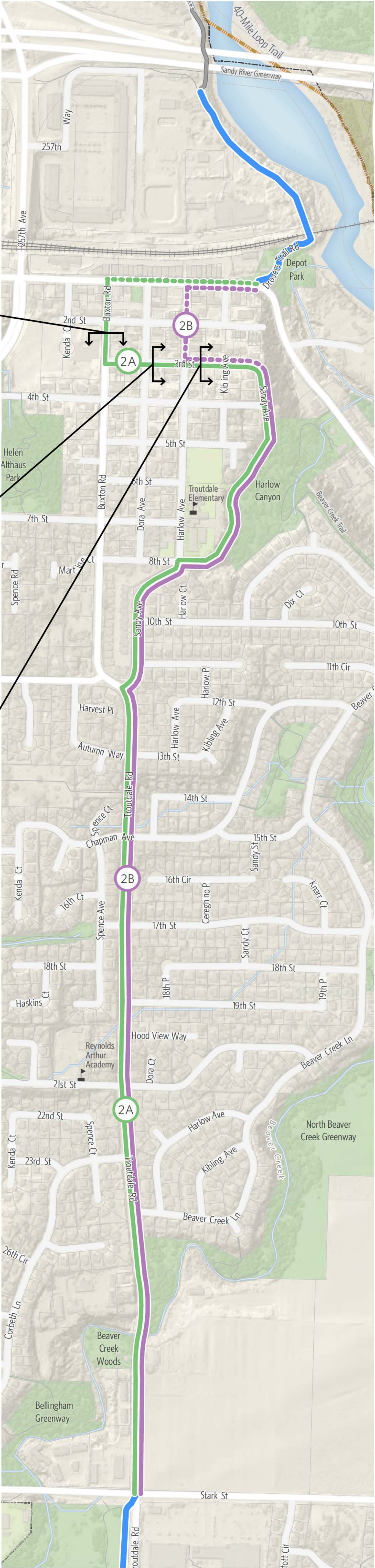
Side Path - east side of Buxton Road



Side Path - south side of 3rd Street



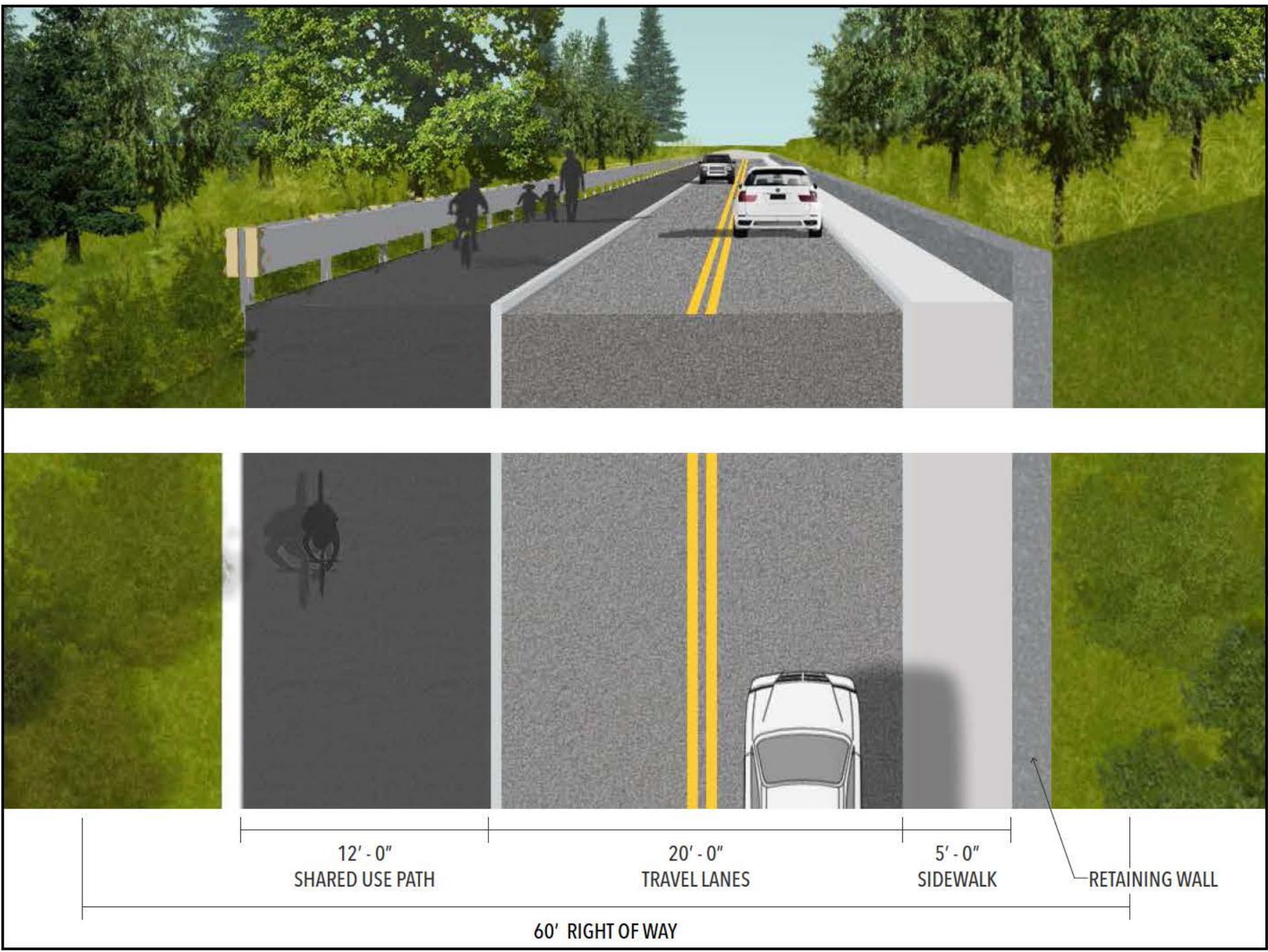
Side Path - south side of 3rd Street



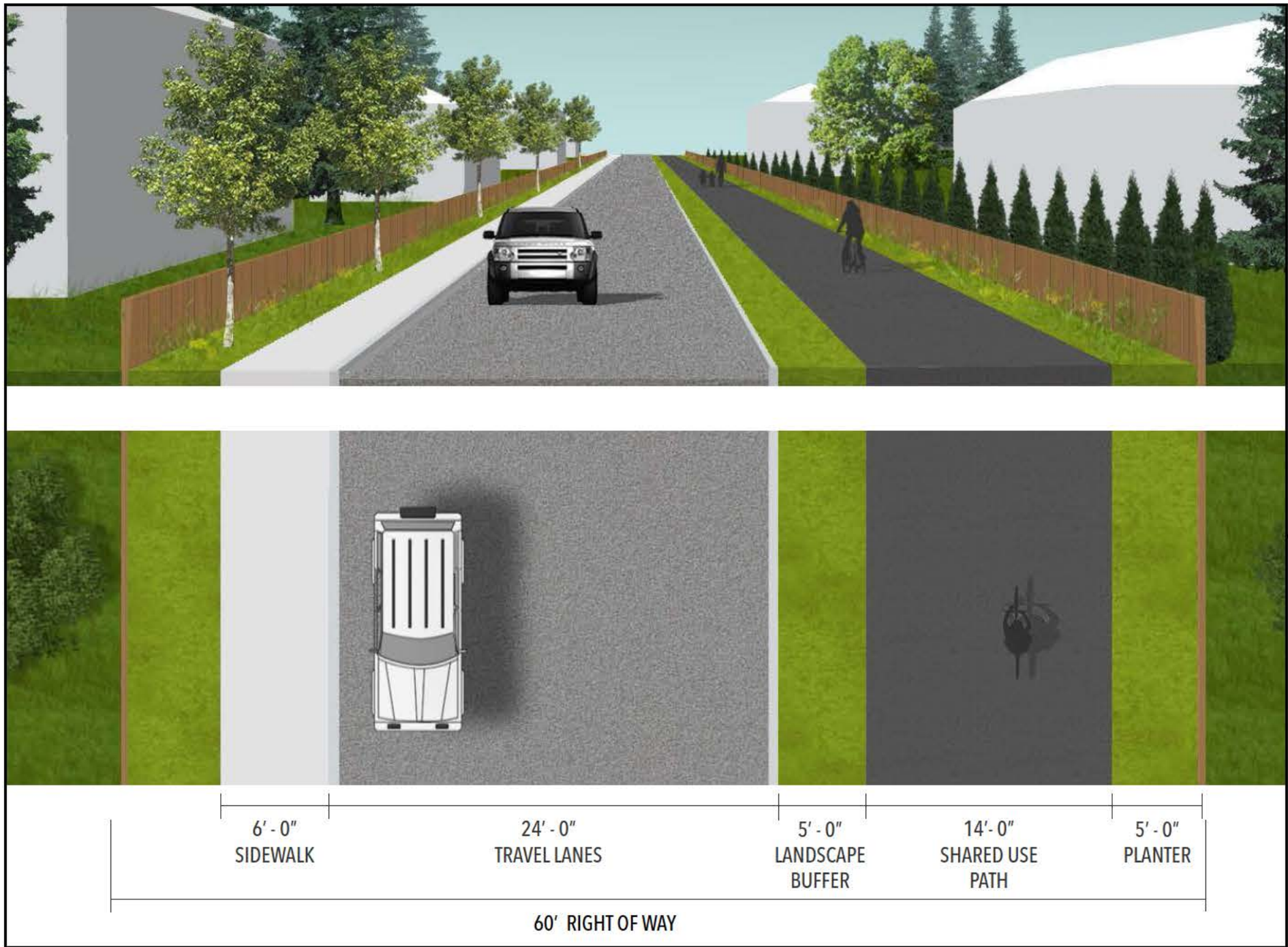


# ROUTE OPTION 2A

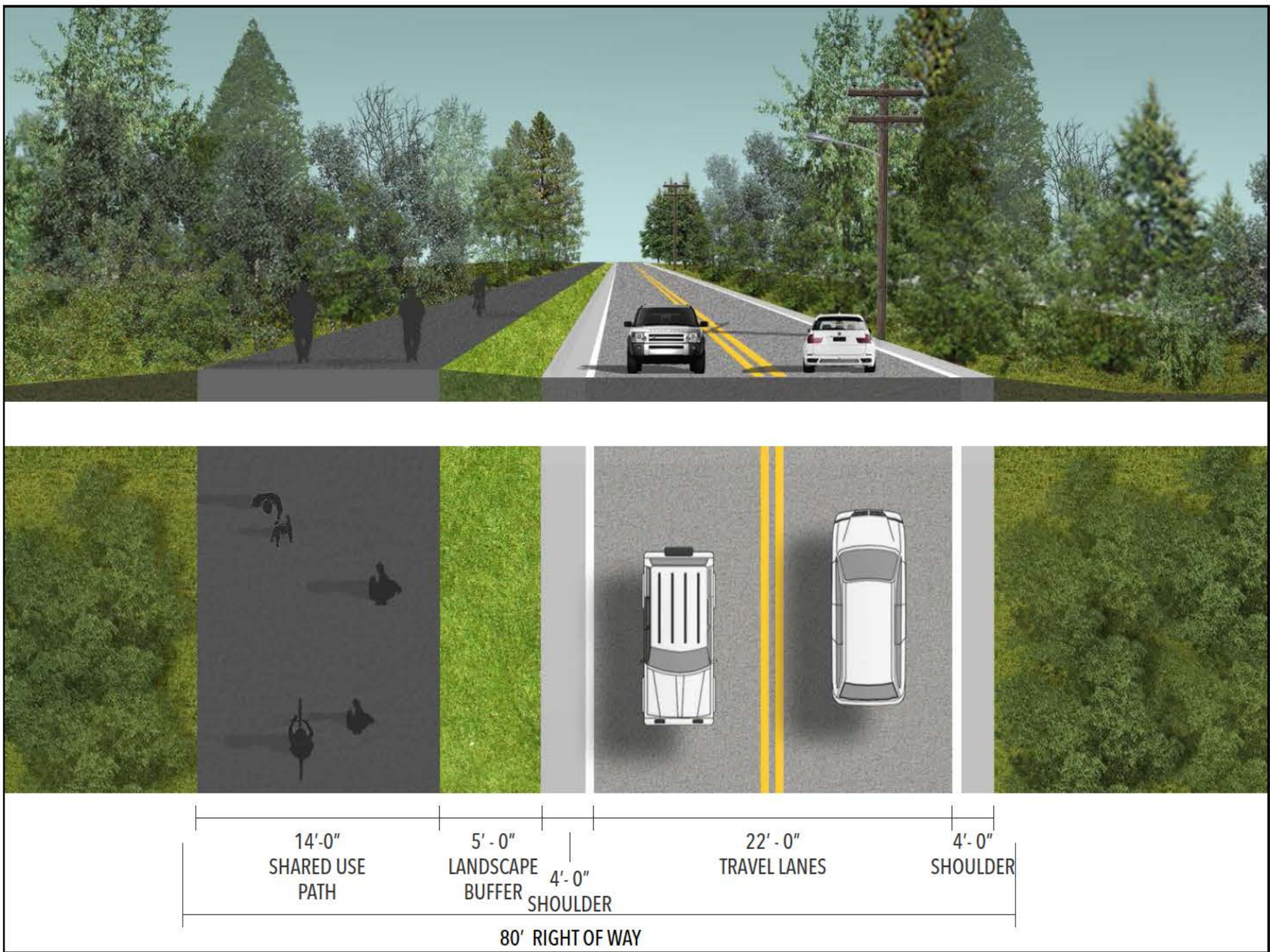
## SANDY AVENUE CROSS SECTIONS



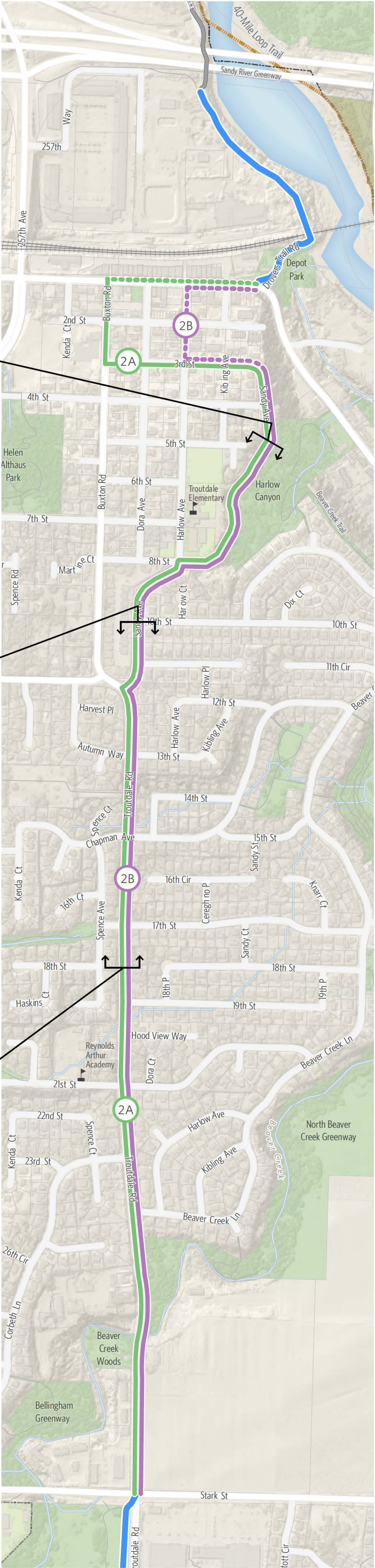
Side Path - east side of Sandy Avenue



Side Path - west side of Sandy Avenue



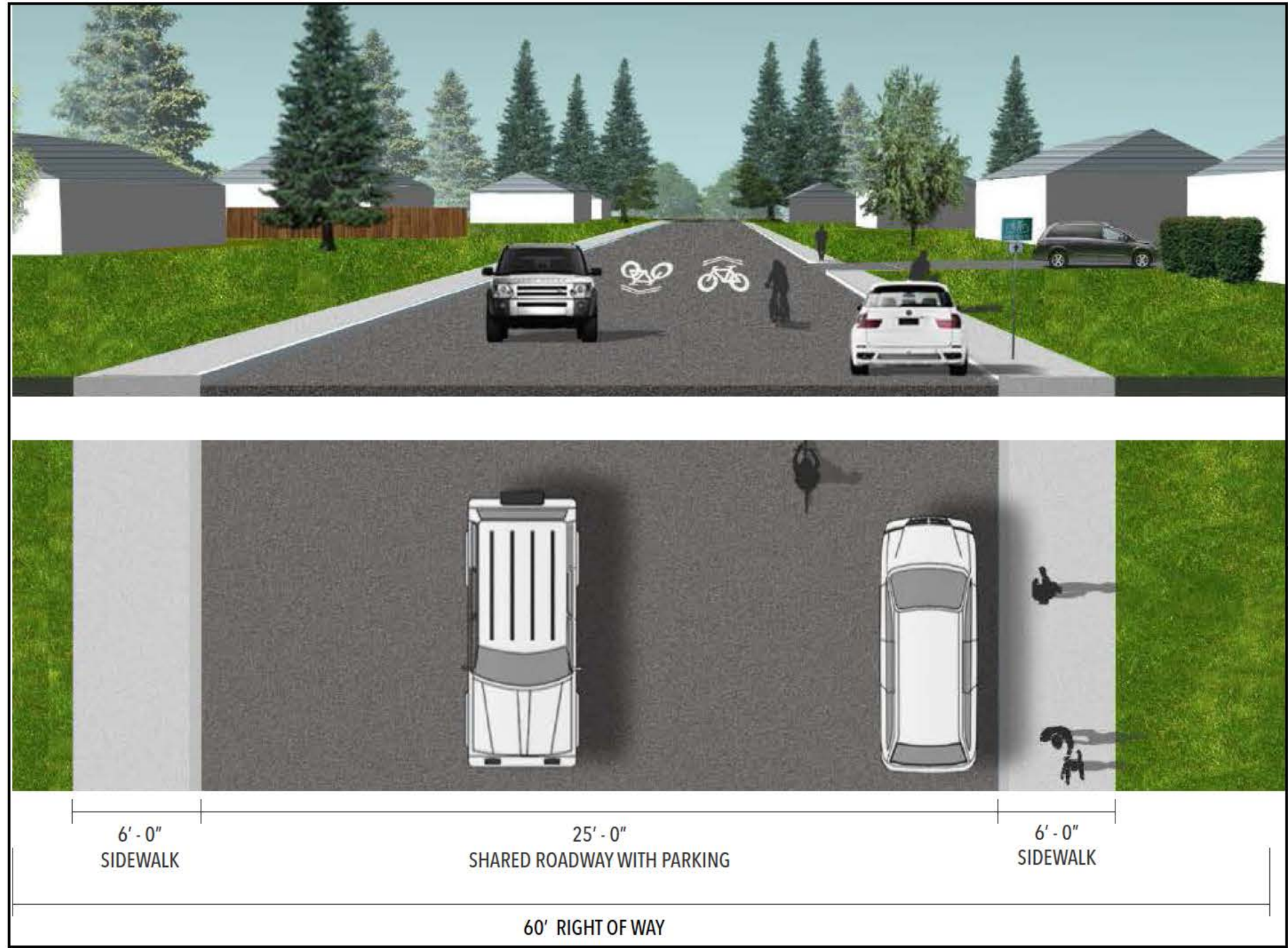
Side Path - west side of Troutdale Road



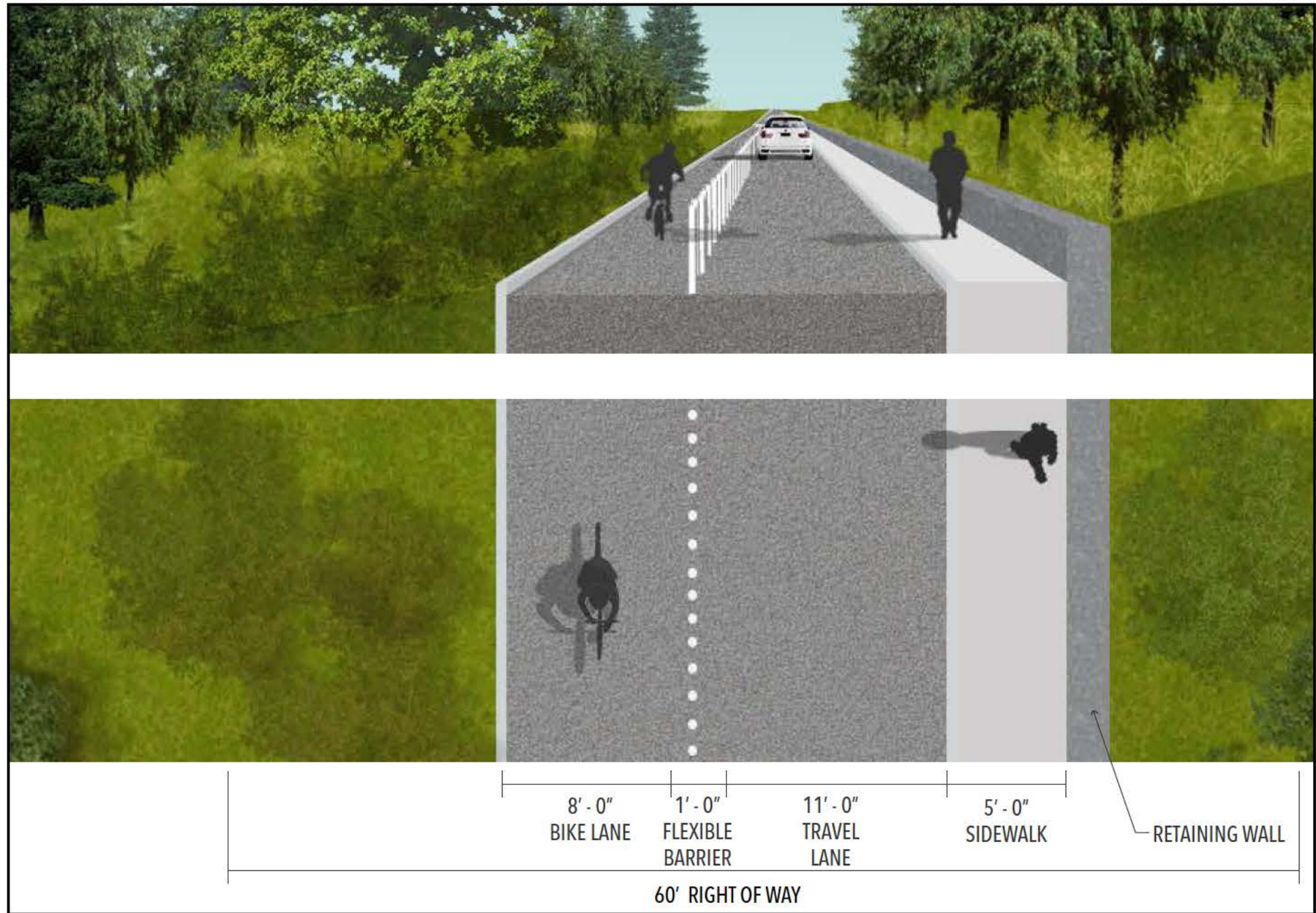


# ROUTE OPTION 2B

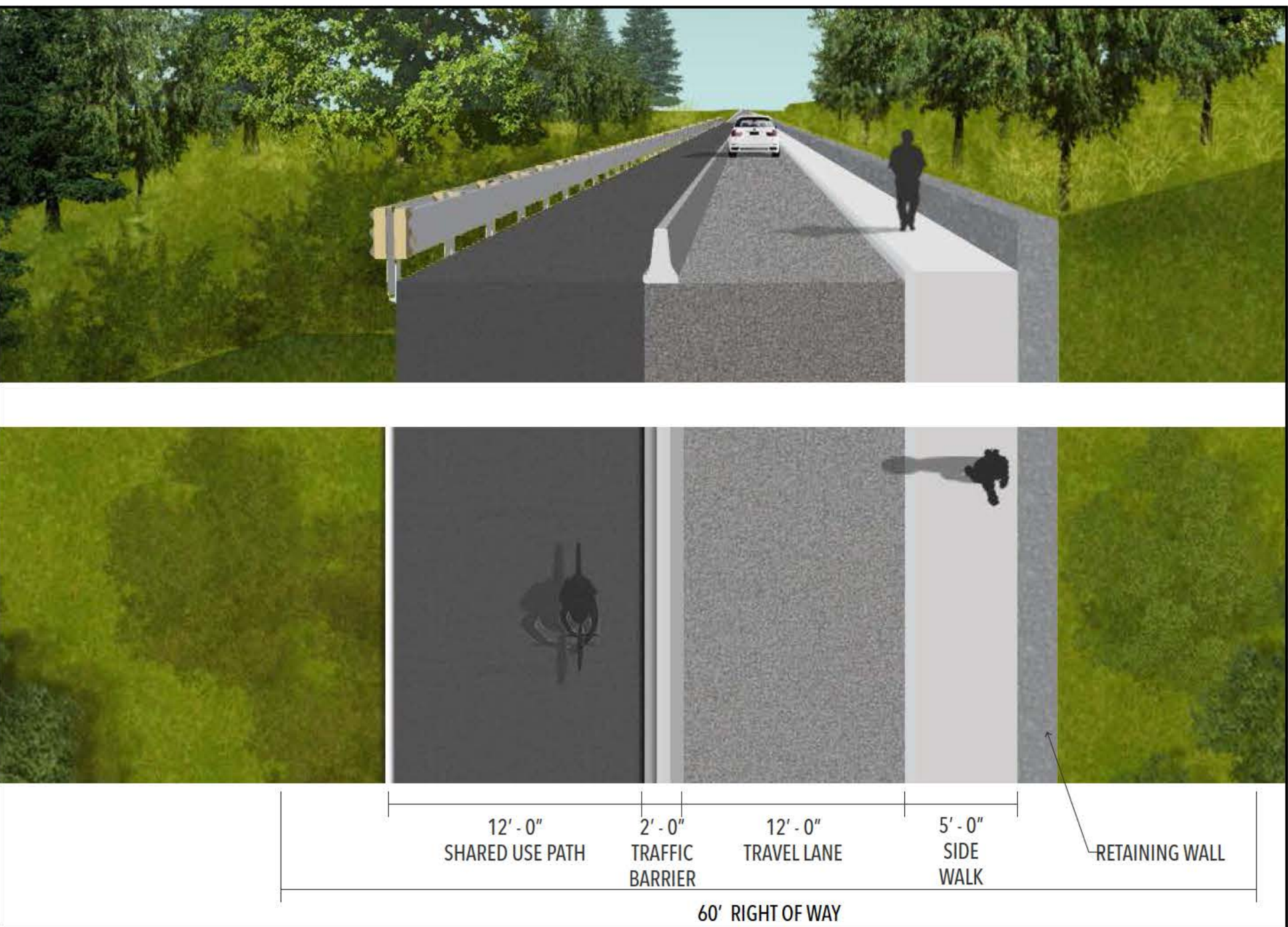
## SANDY AVENUE CROSS SECTIONS



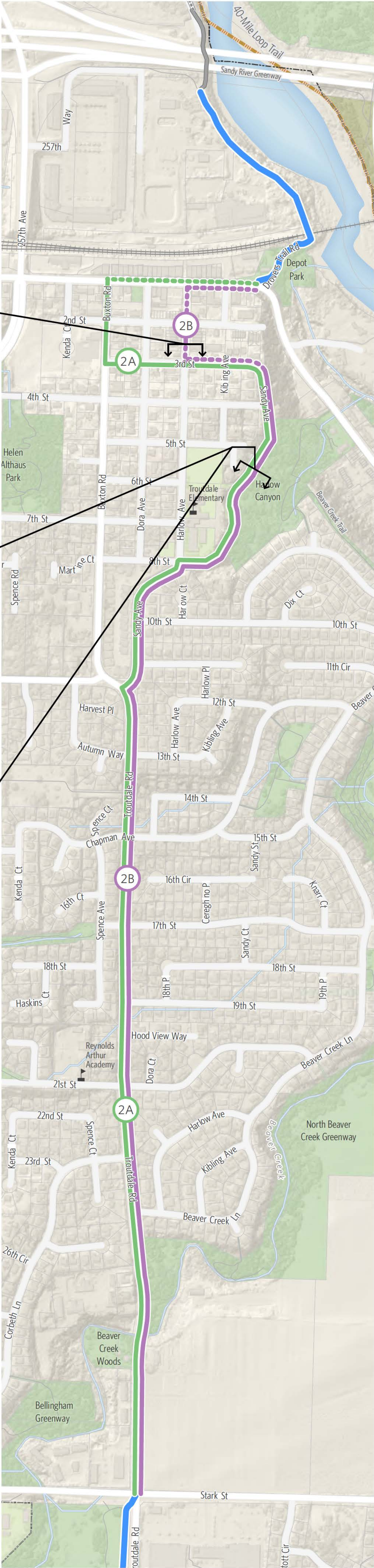
**Neighborhood Greenway - Dora Street or Harlow Avenue**



**Side Path - west side of Sandy Avenue**  
Option A - replace vehicle travel lane with an 8' wide shared use path separated from the vehicles by flexible delineators; no width added to Sandy Avenue.



**Side Path - west side of Sandy Avenue**  
Option B - replace vehicle travel lane with a 12' wide shared use path separated from the vehicles by permanent barrier; Sandy Ave widened to accommodate new shared use path.

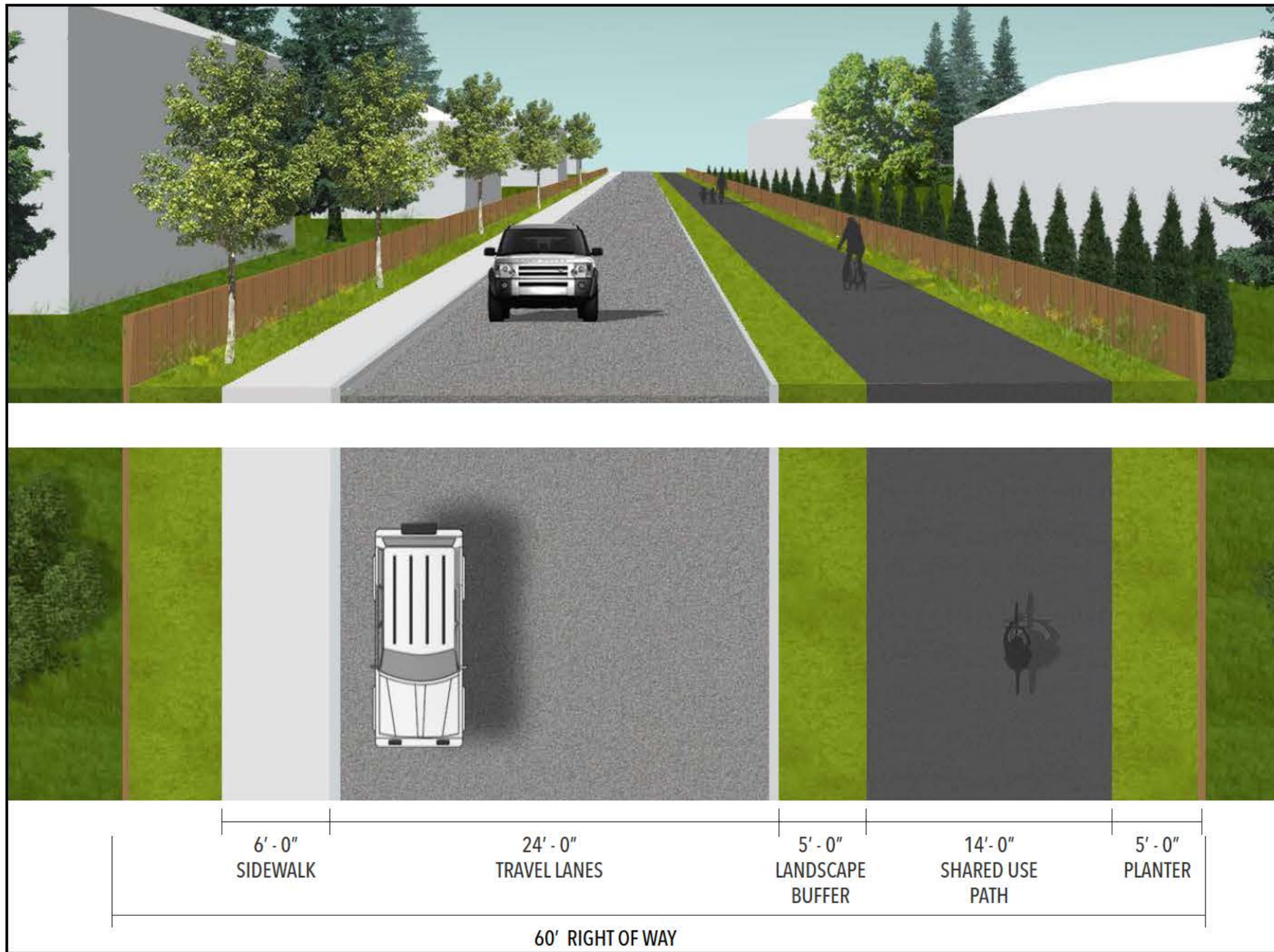




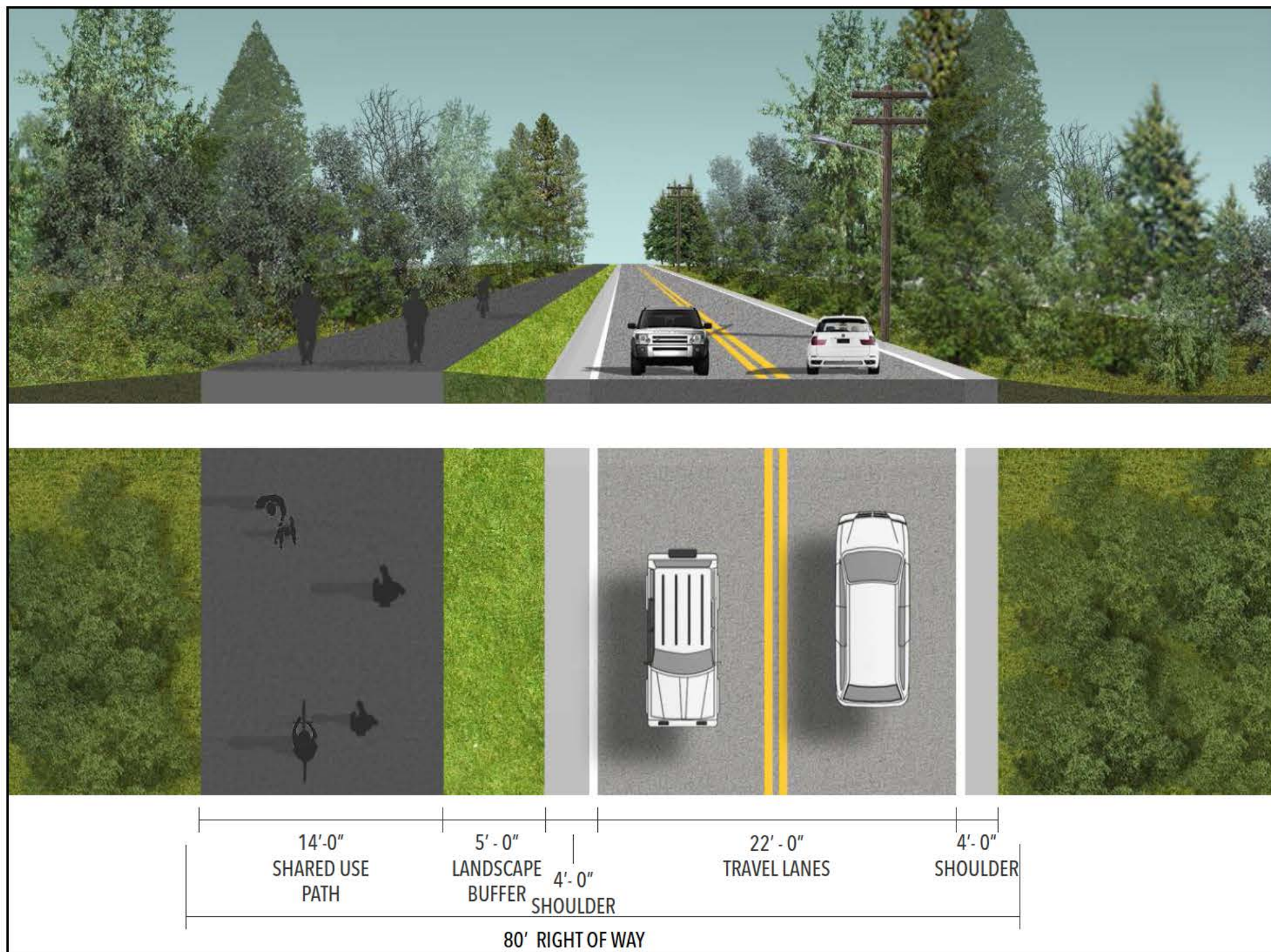
# ROUTE OPTION 2B

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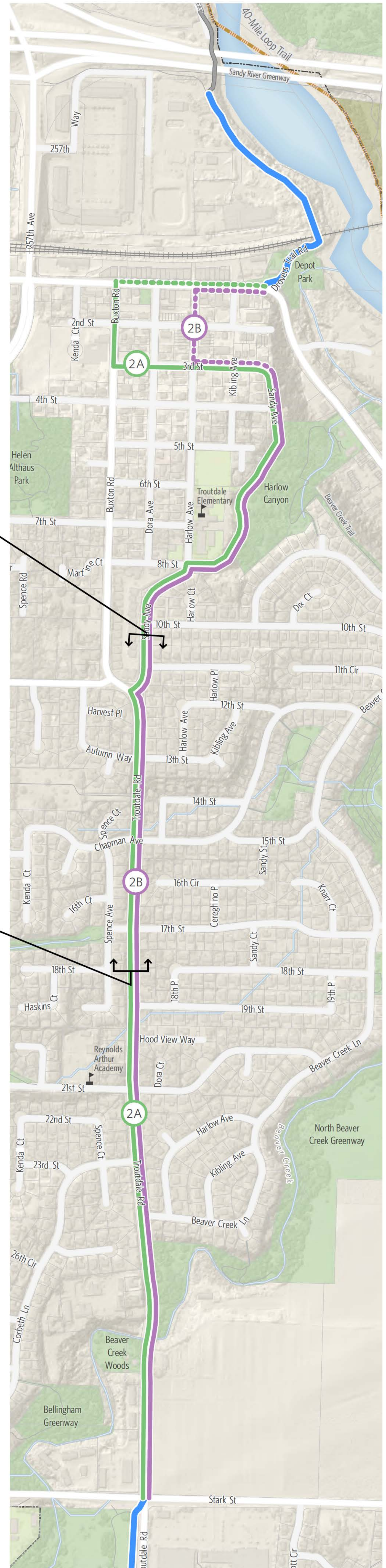
## SANDY AVENUE CROSS SECTIONS



***Side Path - west side of Sandy Avenue***



### ***Side Path - west side of Troutdale Road***

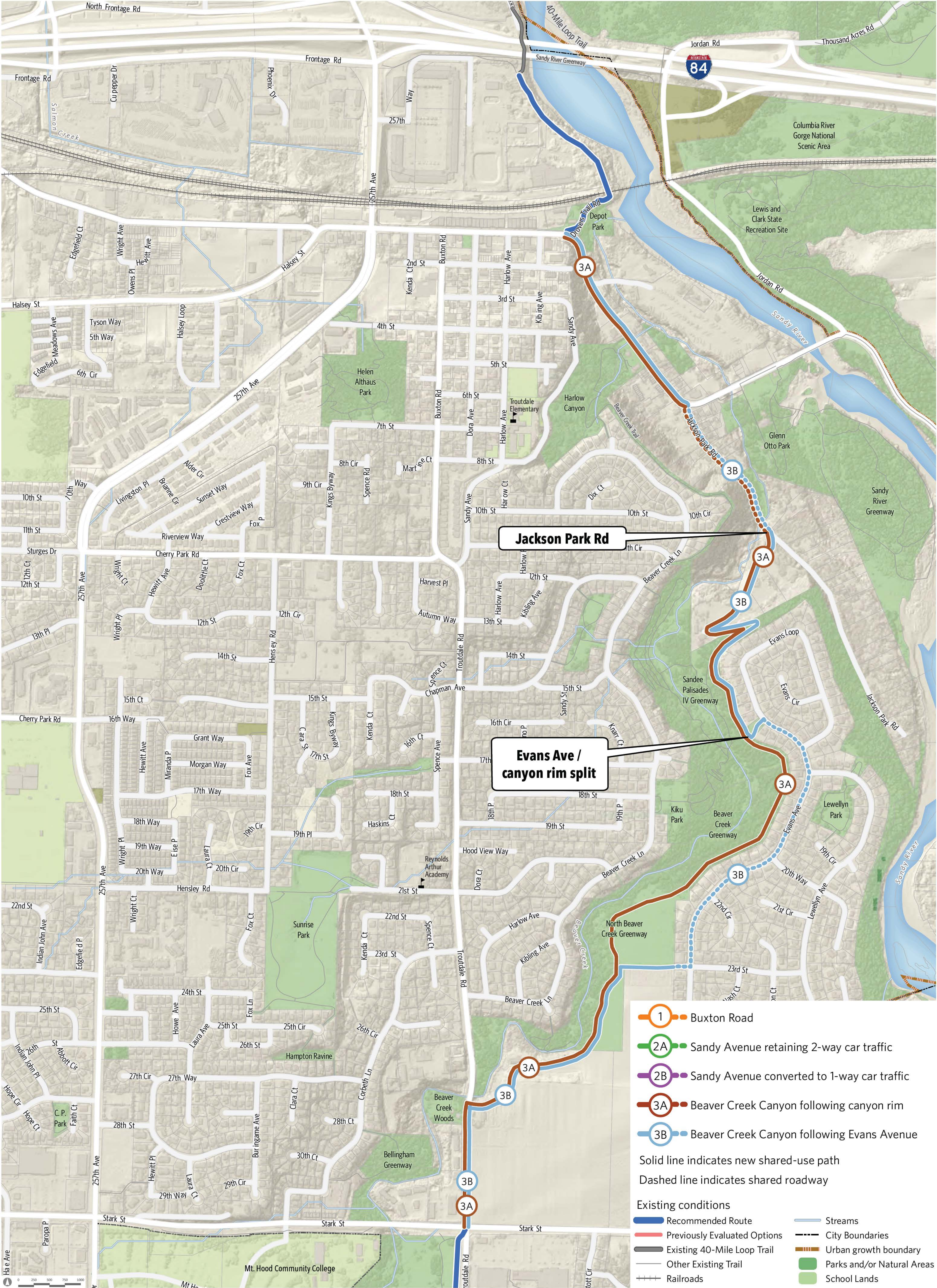


# TROUTDALE 40-MILE LOOP TRAIL MASTER PLAN



# ROUTE OPTION 3

## BEAVER CREEK CANYON



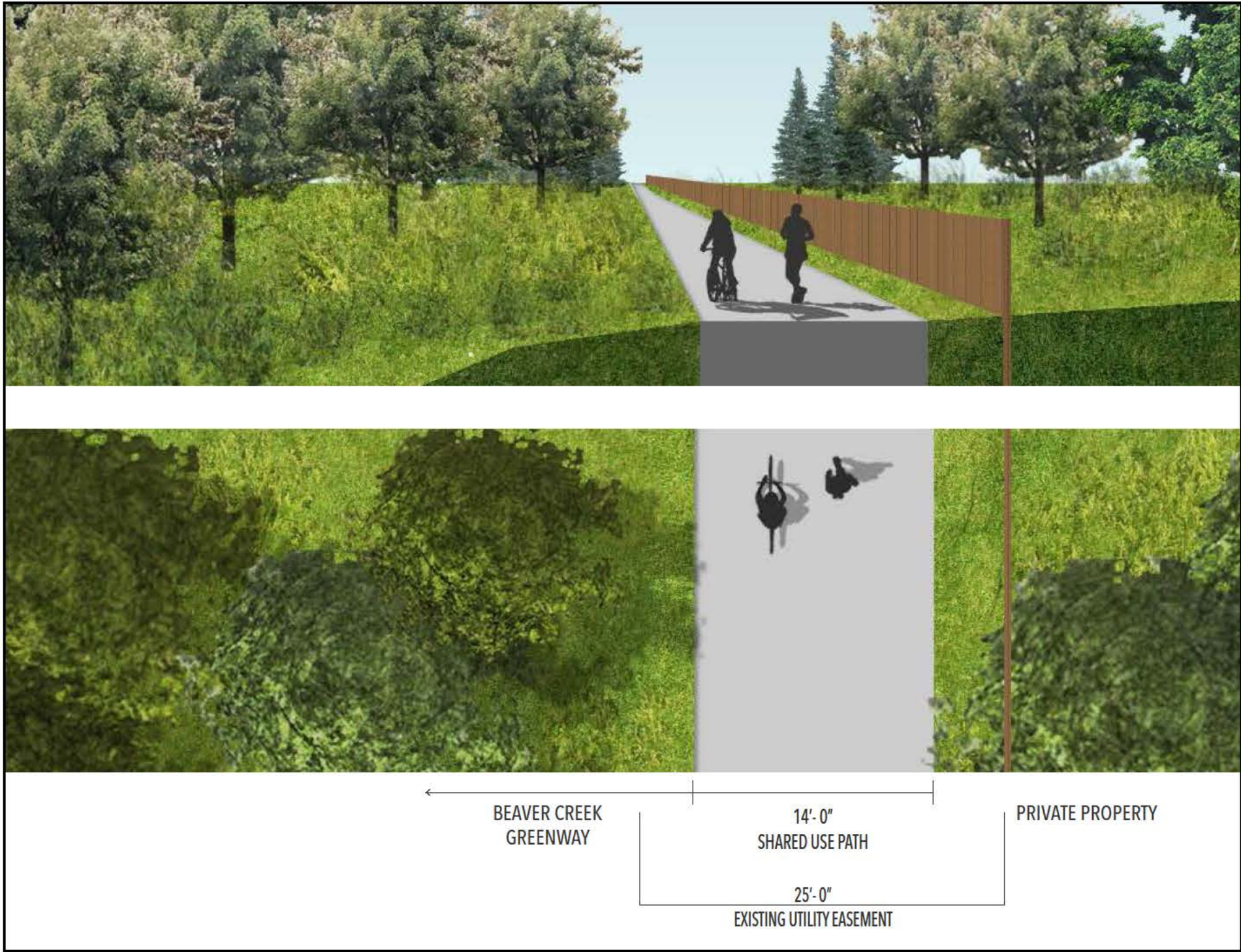
# TROUTDALE 40-MILE LOOP

# TRAIL MASTER PLAN

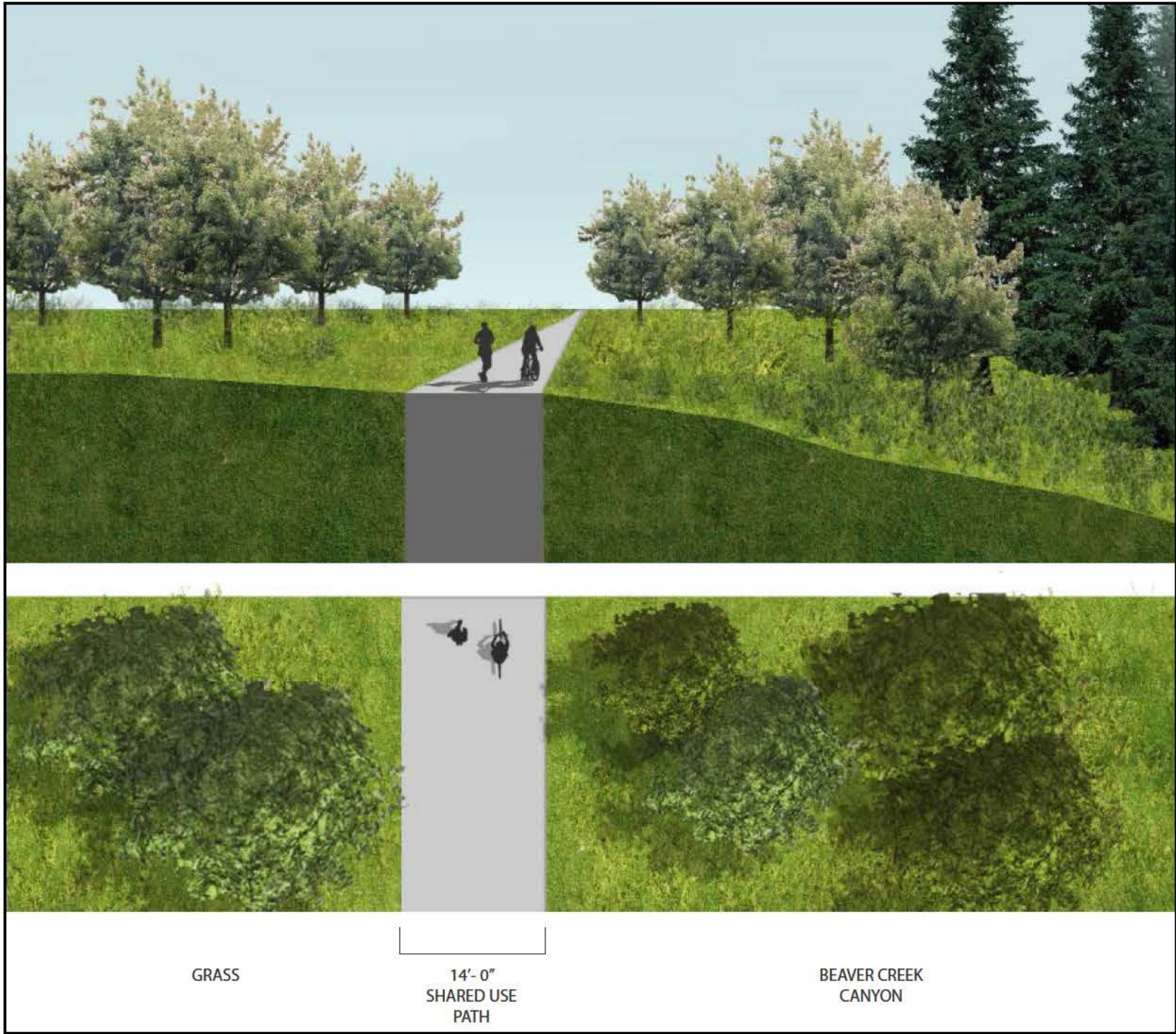


# ROUTE OPTION 3A

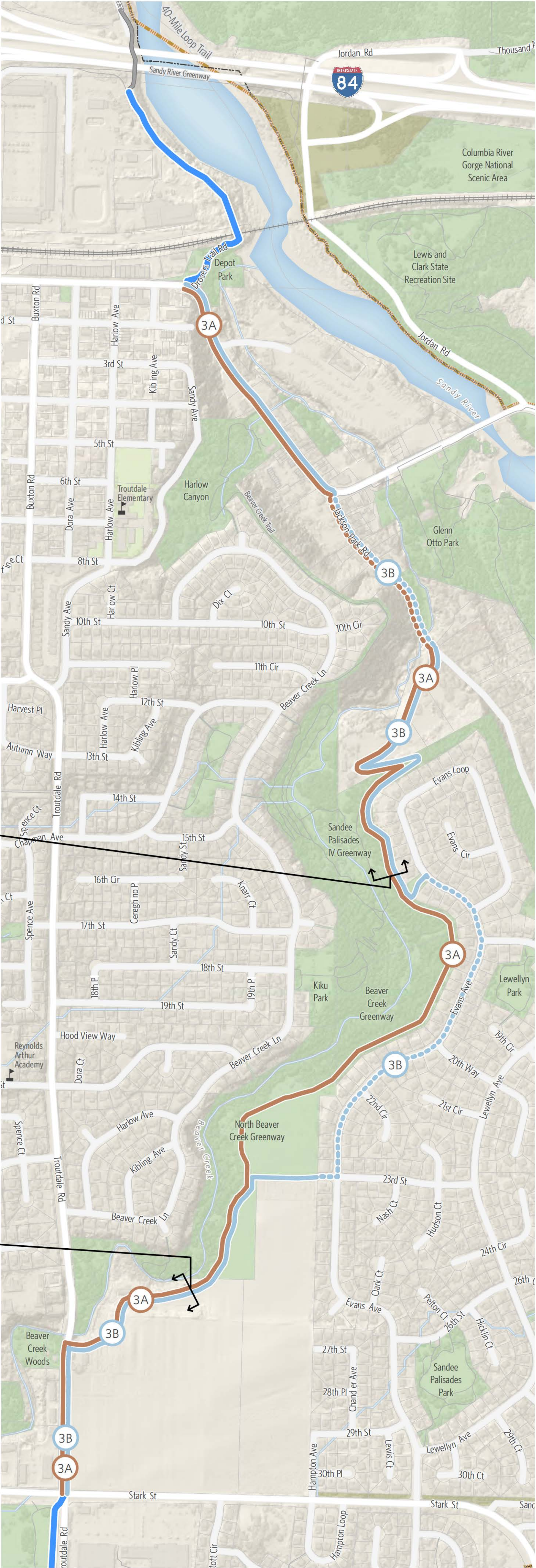
## BEAVER CREEK CROSS SECTIONS



**Shared Use Path - Beaver Creek utility easement**



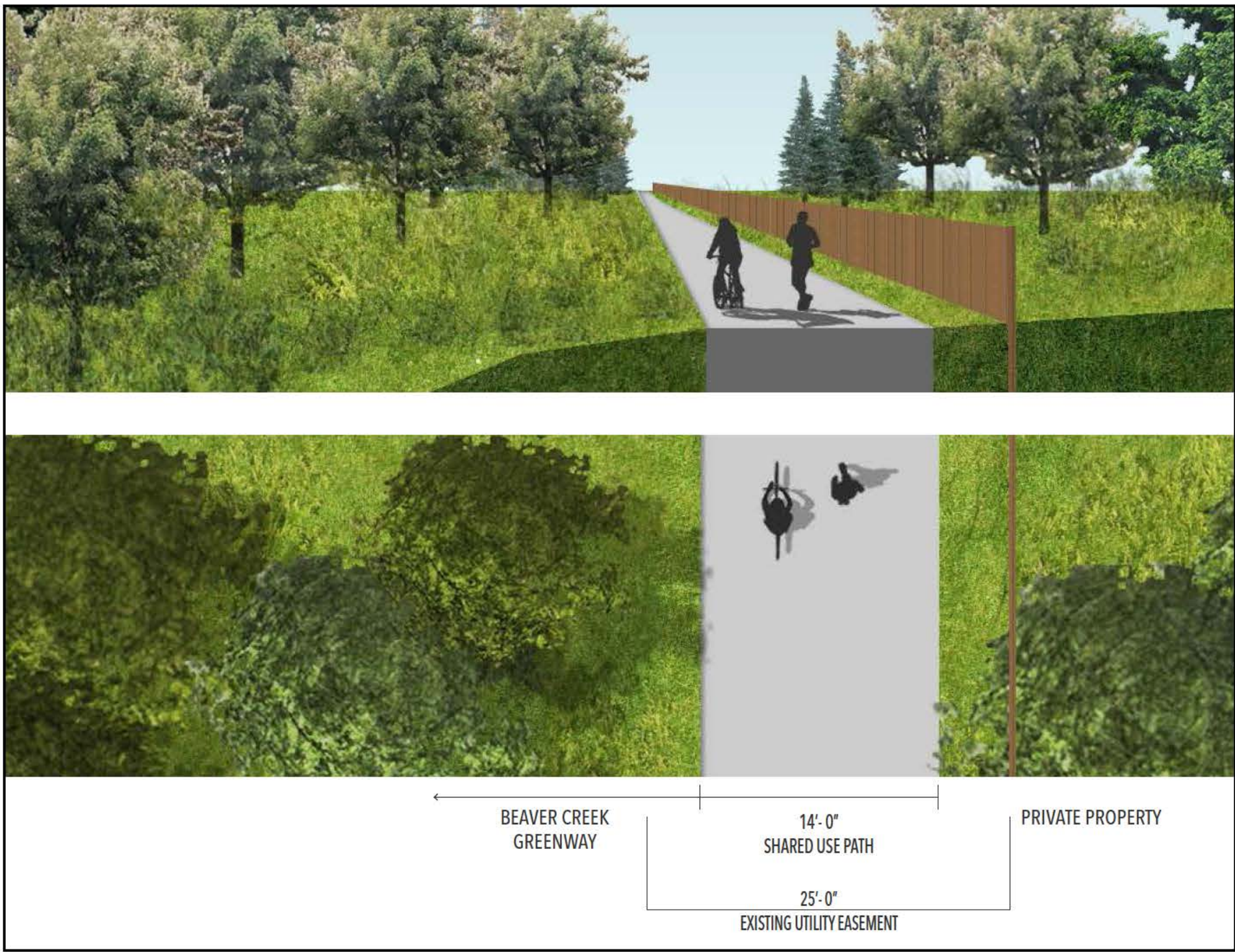
**Shared Use Path - Beaver Creek Greenway**



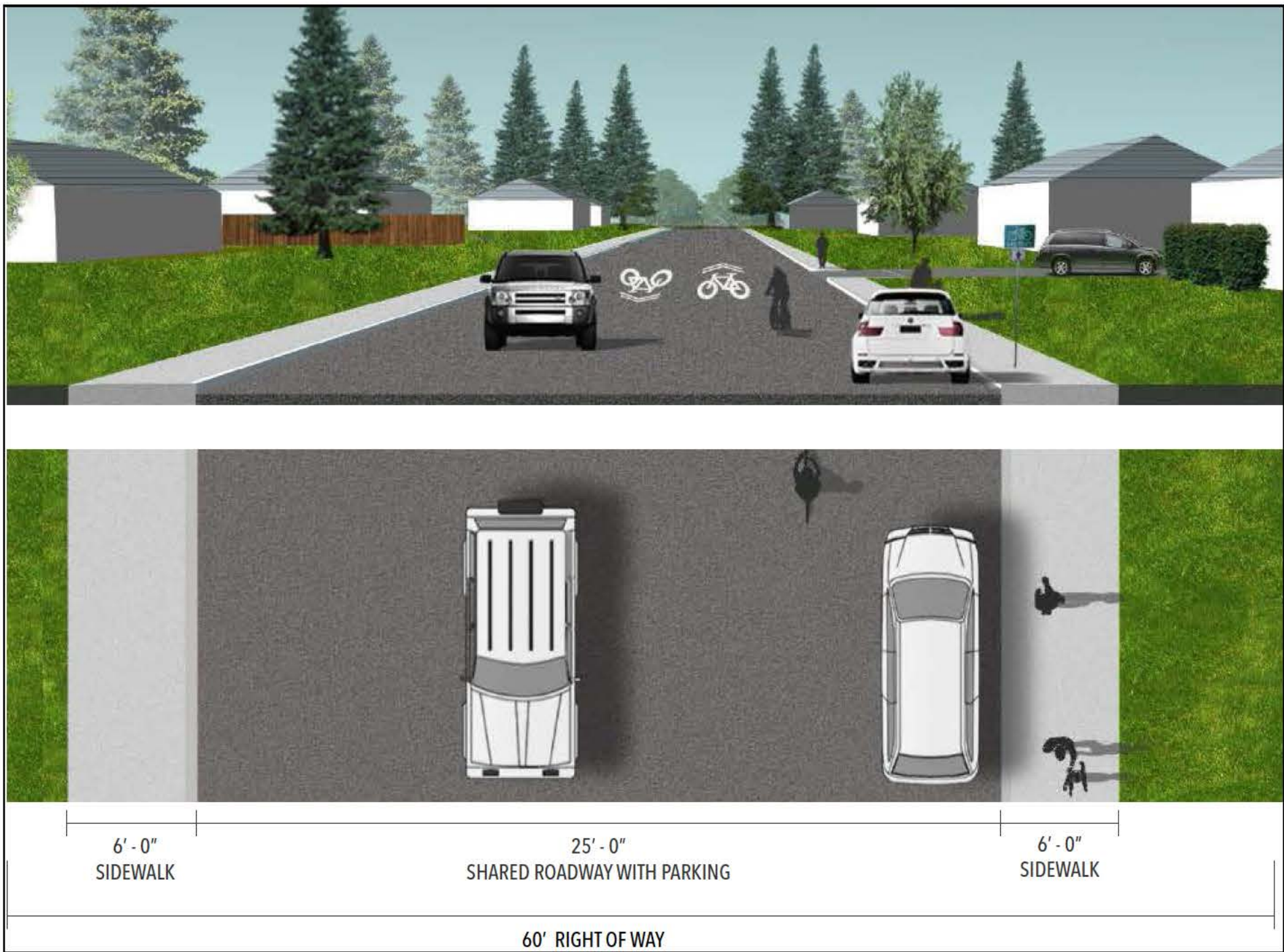


# ROUTE OPTION 3B

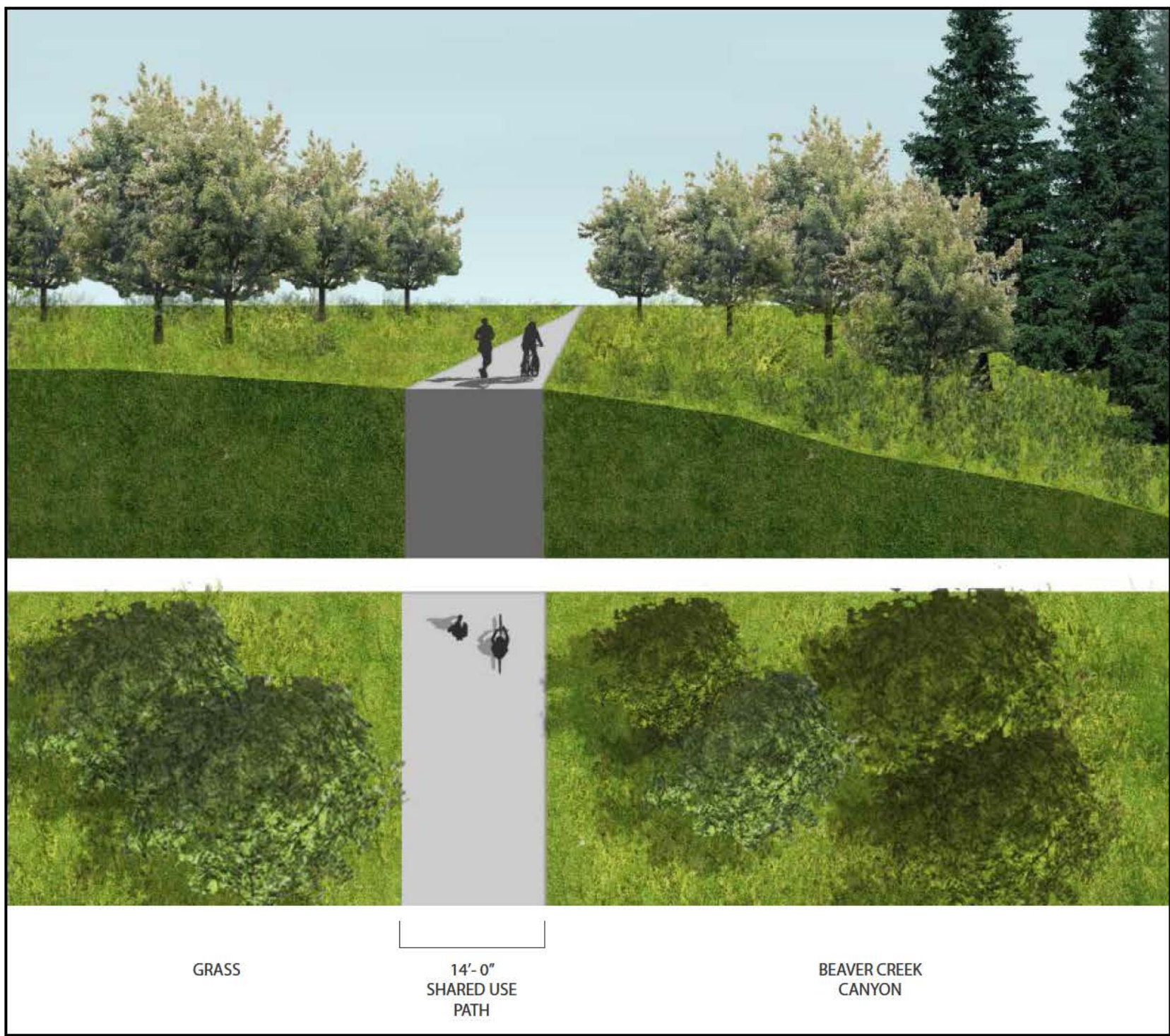
## BEAVER CREEK CROSS SECTIONS



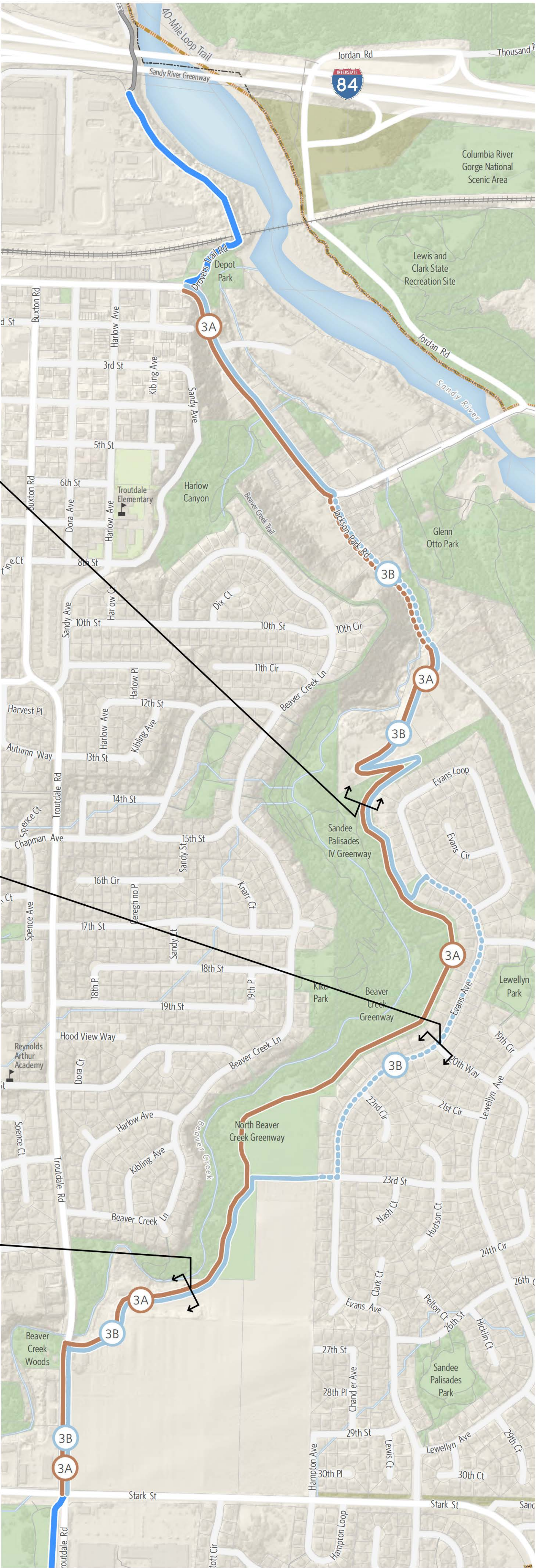
**Shared Use Path - Beaver Creek utility easement**



**Neighborhood Greenway - Evans Avenue**



**Shared Use Path - Beaver Creek Greenway**

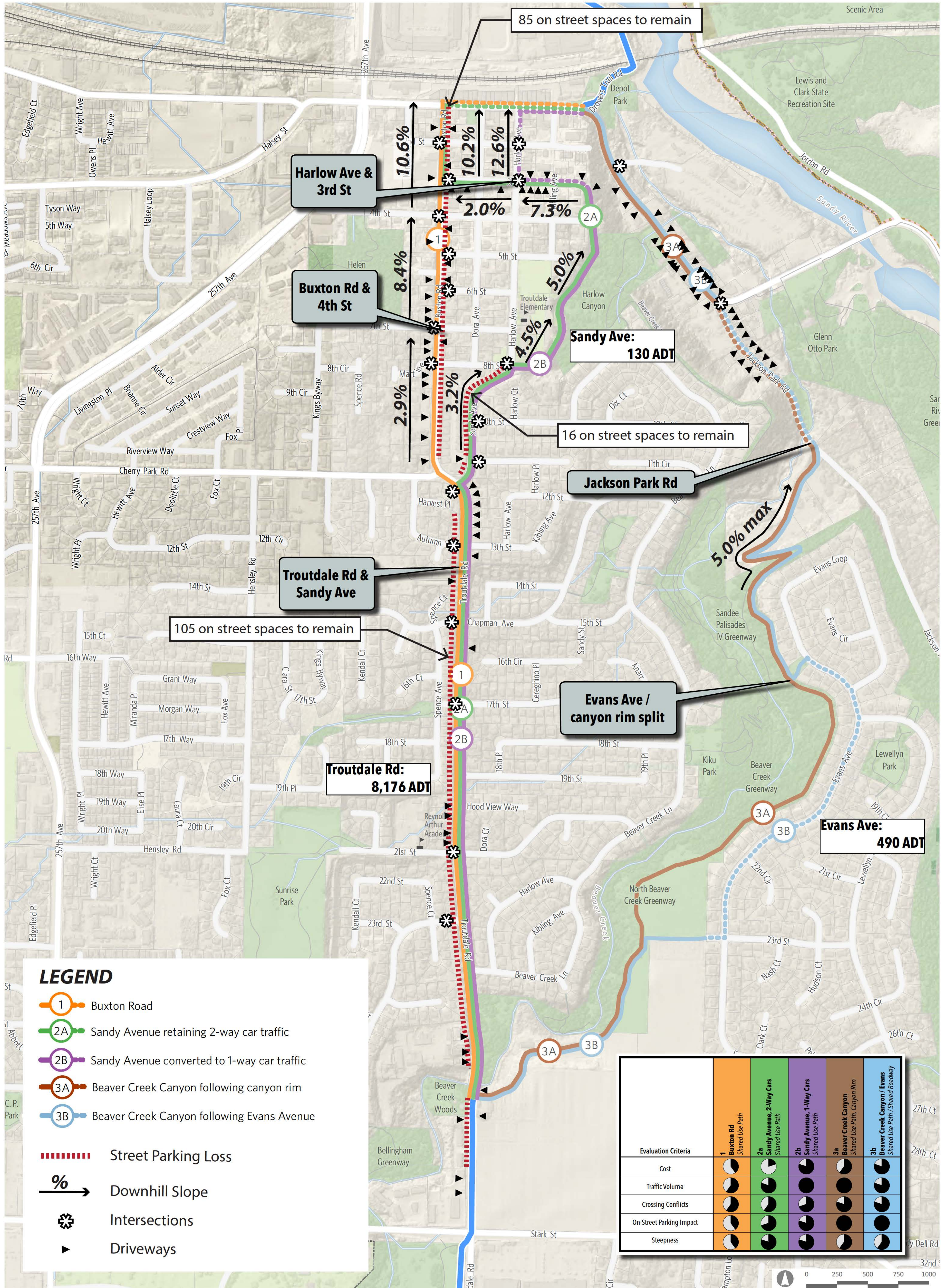




# ROUTE ANALYSIS

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## HOW DO THEY COMPARE?



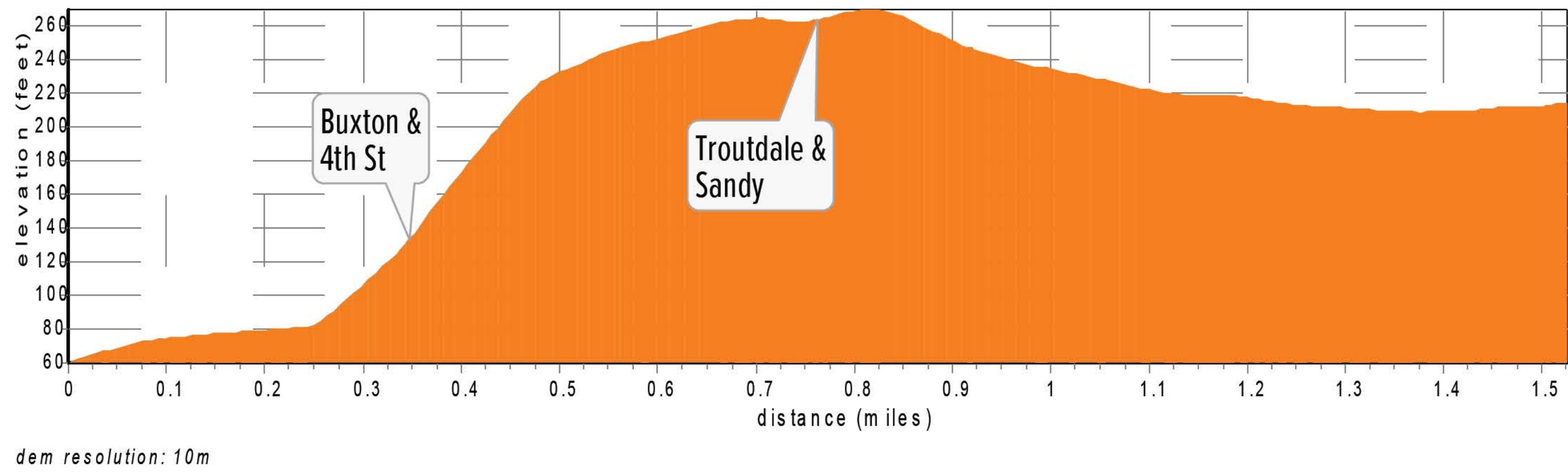
# TROUTDALE 40-MILE LOOP TRAIL MASTER PLAN



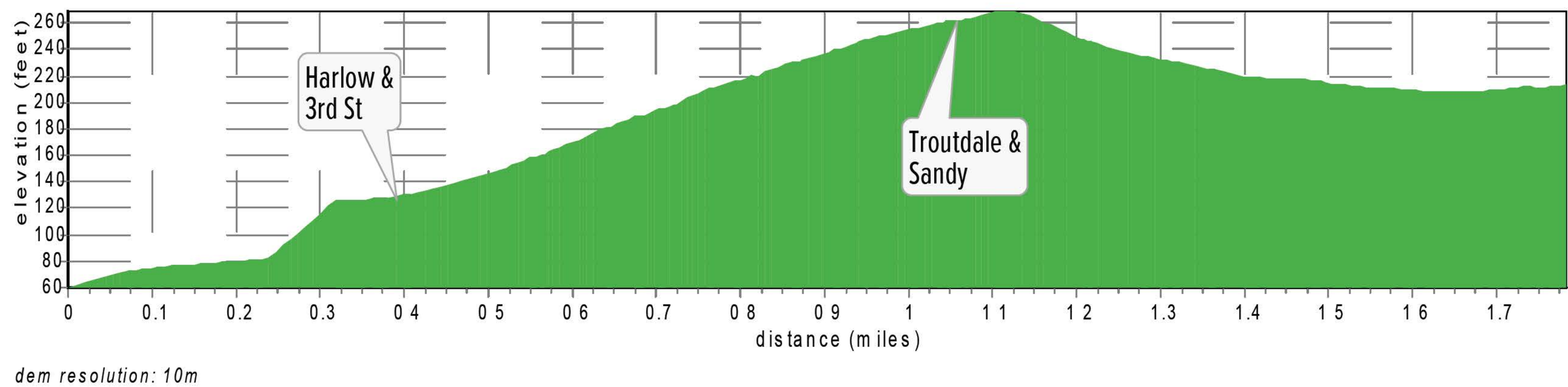
# ROUTE ANALYSIS

## HOW DO THEY COMPARE?

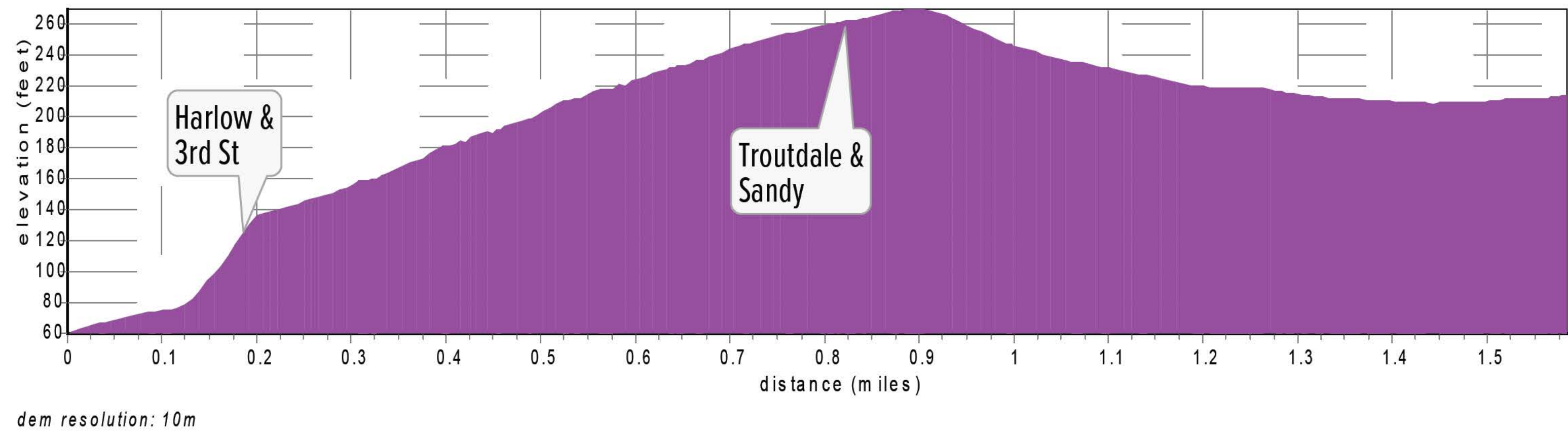
Route 1 Elevation Profile



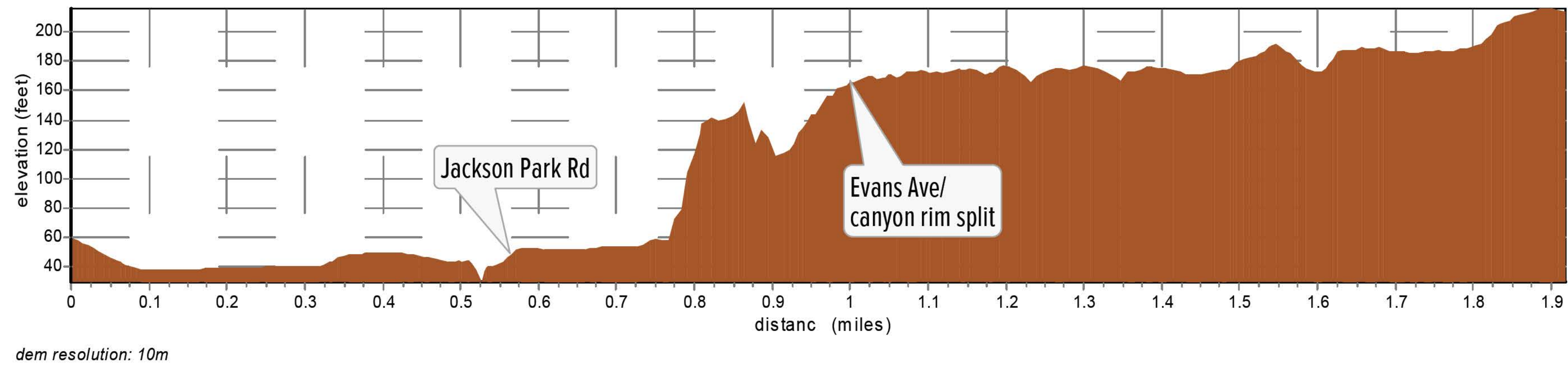
Route 2A Elevation Profile



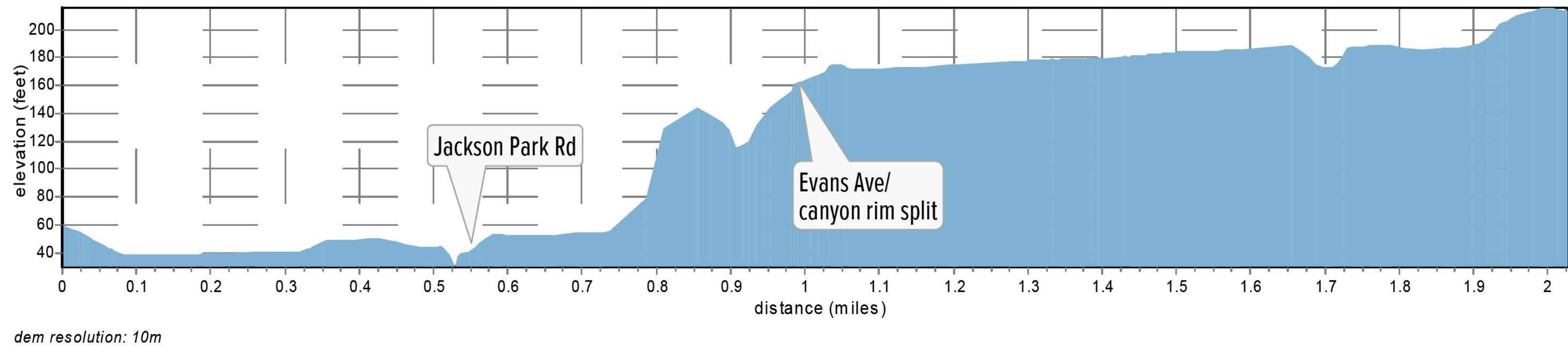
Route 2B Elevation Profile



Route 3A Elevation Profile



Route 3B Elevation Profile





# ALIGNMENT ADOPTION

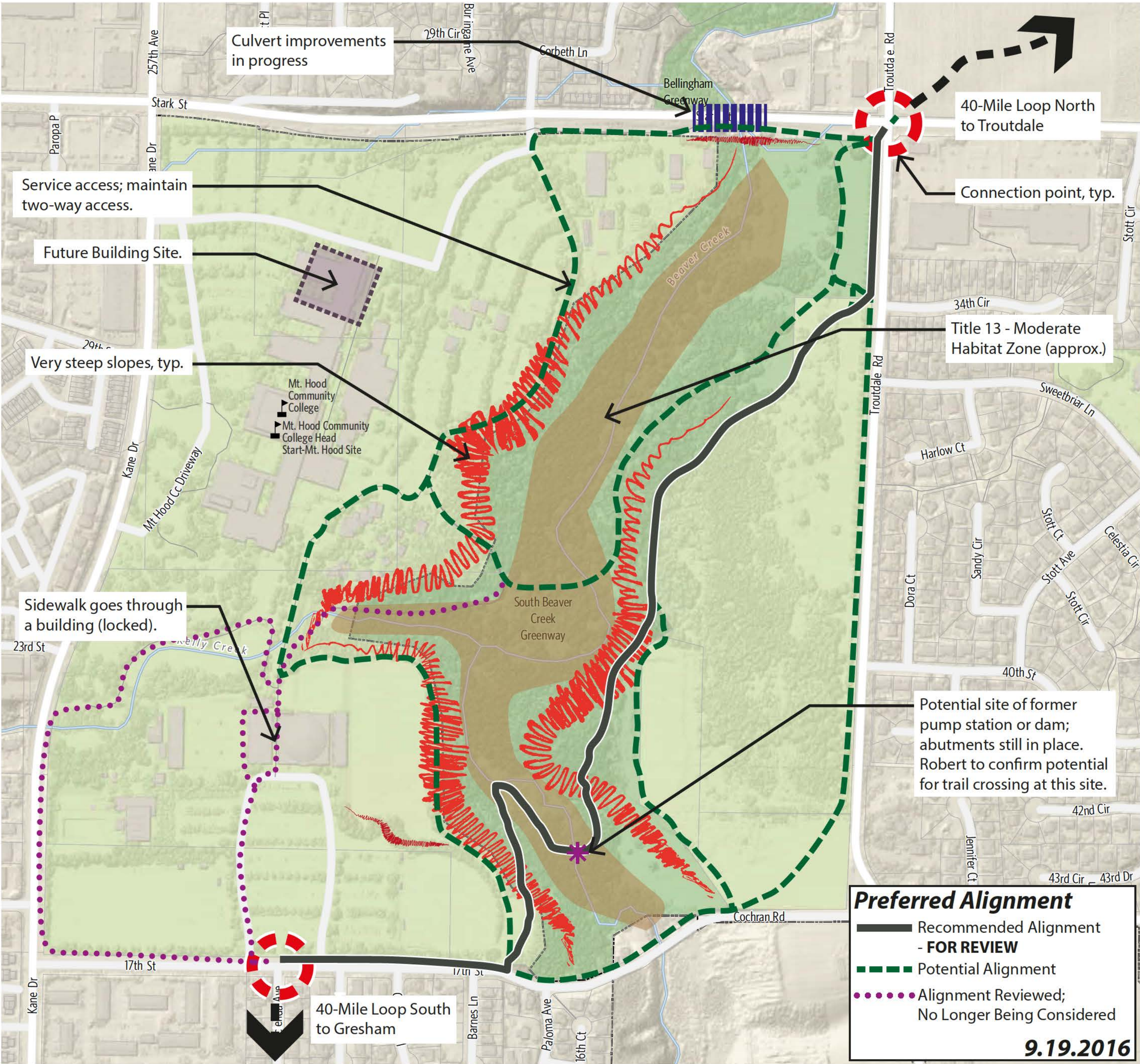
## HOW WILL THE ALIGNMENT BE SELECTED?

*Many design details occur later when trail segments are closer to being constructed. The trail is likely to be designed and built in phases, as funding allows. Dates for final design and construction are not known at this time, but could be years, even decades, from now.*



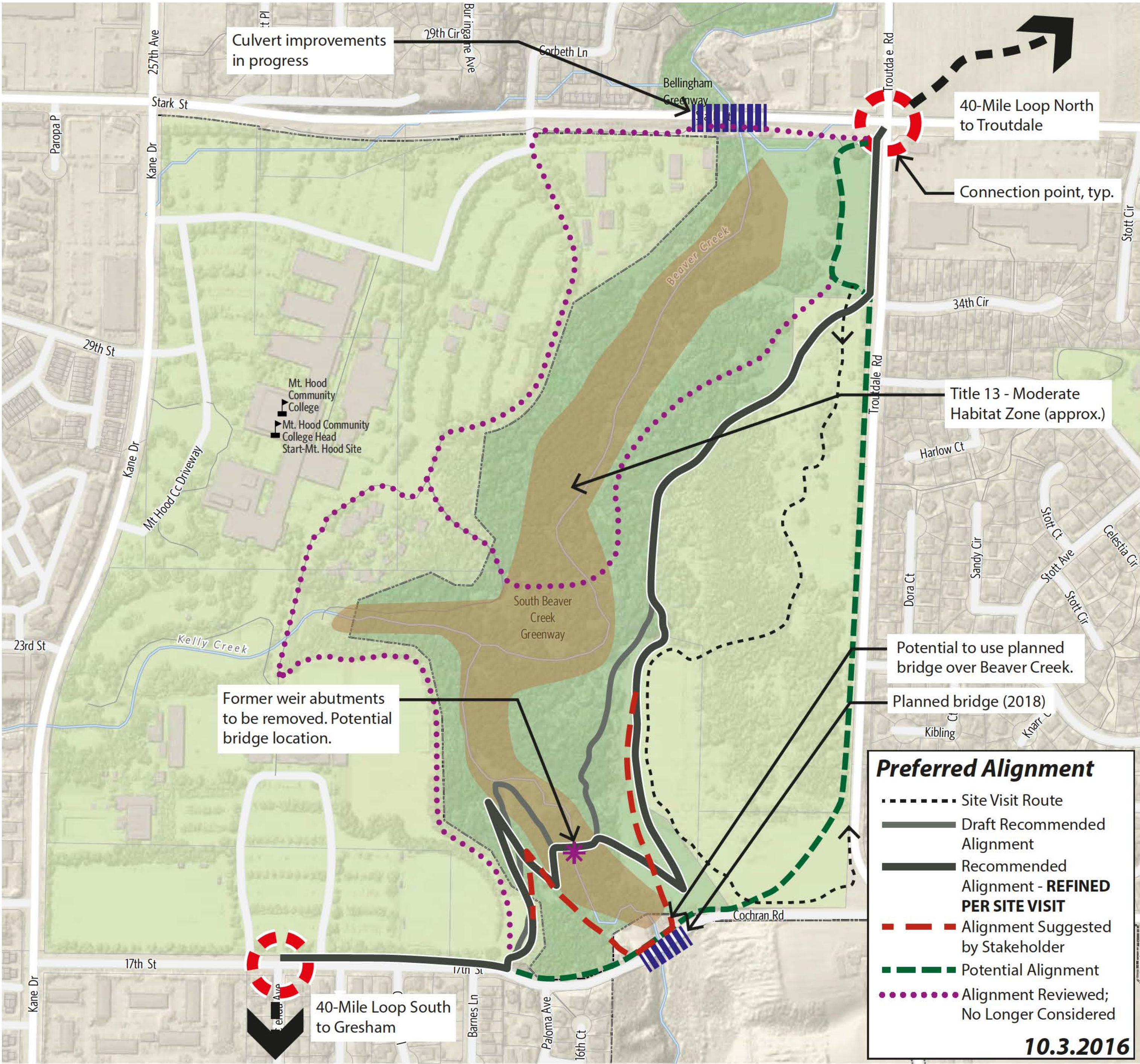
# MT HOOD COMMUNITY COLLEGE

## HOW WAS THIS ROUTE SELECTED?



### Step 1: Identify the Potential for a Trail

The project planning team met with campus staff to develop an understanding of the existing conditions through Mt Hood Community College and Beaver Creek natural area to determine if there was a potential trail route through campus and to document existing conditions.



### Step 2: Review and Refine the Recommended Trail Route

Mt Hood Community College staff and Metro Natural Area staff reviewed the potential alignment and discussed revisions and alternative routes for the trail.

# TROUTDALE 40-MILE LOOP

# TRAIL MASTER PLAN



# MT HOOD COMMUNITY COLLEGE

## RECOMMENDED ROUTE SOUTH OF TROUTDALE




**Recommended Route through Mt Hood Community College**  
The recommended route through campus is based on feedback from review by the Mt. Hood Community College President's Council and Board.



New shared use path parallel to Troutdale Road; existing nature trail to remain





New shared use path along Mt Hood Community College and South Beaver Creek Greenway natural area boundary





New bridge over Beaver Creek; connection to 17th Street near existing maintenance access road east of Mt Hood CC baseball field





# TRAIL SAFETY

## CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN



### ***Natural Access Control***

- Clearly differentiate between public space and private space
- Delineate the intended use



### ***Natural Surveillance***

- Create the perception that people can be seen
- Use the shortest, least sight-limiting fence appropriate for the situation
- Ensure problem areas are well-lit
- Avoid lighting that is too bright

**"Crime prevention through environmental design (CPTED) is a multi-disciplinary approach to deterring criminal behavior through environmental design."** (International CPTED Association)



# TRAIL SAFETY

## CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN



### ***Natural Territorial Reinforcement***

- Create a sense of ownership
- Schedule activities that increase proper use, attract more people, and increase the perception that the area is controlled
- Make the intended user feel safe and the offender aware of substantial scrutiny

### ***Maintenance***

- Deterioration indicates less control and a tolerance of disorder
- Places that are well cared for are well respected

**"Crime prevention through environmental design (CPTED) is a multi-disciplinary approach to deterring criminal behavior through environmental design."** (International CPTED Association)



# TRAIL SAFETY AND MAINTENANCE

WHAT ARE YOUR THOUGHTS?

*How can we best maintain a trail for the community?*



TROUTDALE 40-MILE LOOP  
**TRAIL MASTER PLAN**



FEBRUARY 22, 2017



# THINKING AHEAD

## WHAT ARE YOUR HOPES FOR THE TRAIL?

*Think into the future, after the trail has been in place for a while:*

- *What do you like about this trail?*
- *What benefits has the community seen?*
- *Where do you still want to connect to?*

