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PROVO RIVER   

BRIDGE & TRAIL at 820 North

Agenda

- Project Goals and Background
- Planning Context
- Potential Cross-sections
- Public Involvement
- Comments and Questions



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BRIDGE & TRAIL



at 820 North



Provo River Bridge & Trail: Project Goals and Background

Project Goals

- **Upgrade safety** by rebuilding the bridge to address structural deficiencies
- **Improve comfort** on sidewalks, trails, and bike lanes for safer and more convenient access
- **Support connectivity** by planning the bridge for a 75-year life span



Provo River Bridge on 820 North



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at 820 North

Project Background

- Constructed in 1960 (now 64 years old)
- Design life was 50-70 years
- Bridge deck is 80 feet long and 40 feet (3,200 square feet)
- Average Daily Traffic is 11,300 (January 2024)
- National Bridge Inventory Listed Deficiencies
 - Transition standards
 - Approach guardrail
 - Bridge guardrail ends
 - Deck geometry



Existing Issues with Provo River Bridge

- Sidewalk width
- Sidewalk connectivity
- Bike lane width
- Parapet height
- Weight limit
- Sight Distance



Existing Issues with Provo River Trail Crossing

- Trail width under bridge
- Vertical clearance
- Trail grade
- Connectivity to street



PROVO RIVER BRIDGE & TRAIL



EXISTING CONDITIONS

64 YEARS

IS THE AGE OF THE BRIDGE WHICH IS APPROACHING THE LIMIT OF ITS DESIGN LIFE.

Currently, the bridge has a series of **structural issues** including the guard rail and deck geometry.



11,300

VEHICLES PER DAY IS THE EXISTING TRAFFIC VOLUME ON 820 N.

Traffic is anticipated to **increase** in the upcoming years.



100,000

PEOPLE WALK AND BIKE ON 820 N EVERY YEAR.

This street is a designated bike corridor with **high bike and pedestrian usage!**



40 FEET

IS THE CURRENT WIDTH OF THE PROVO RIVER BRIDGE ON 820 N.

Which is only enough to fit one **11' lane** and **3.5' sidewalks** on each side.



200,000

PEOPLE UTILIZE THE PROVO RIVER TRAIL EACH YEAR.

This trail is a **major** bike and pedestrian **connector** in the region.



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at 820 North

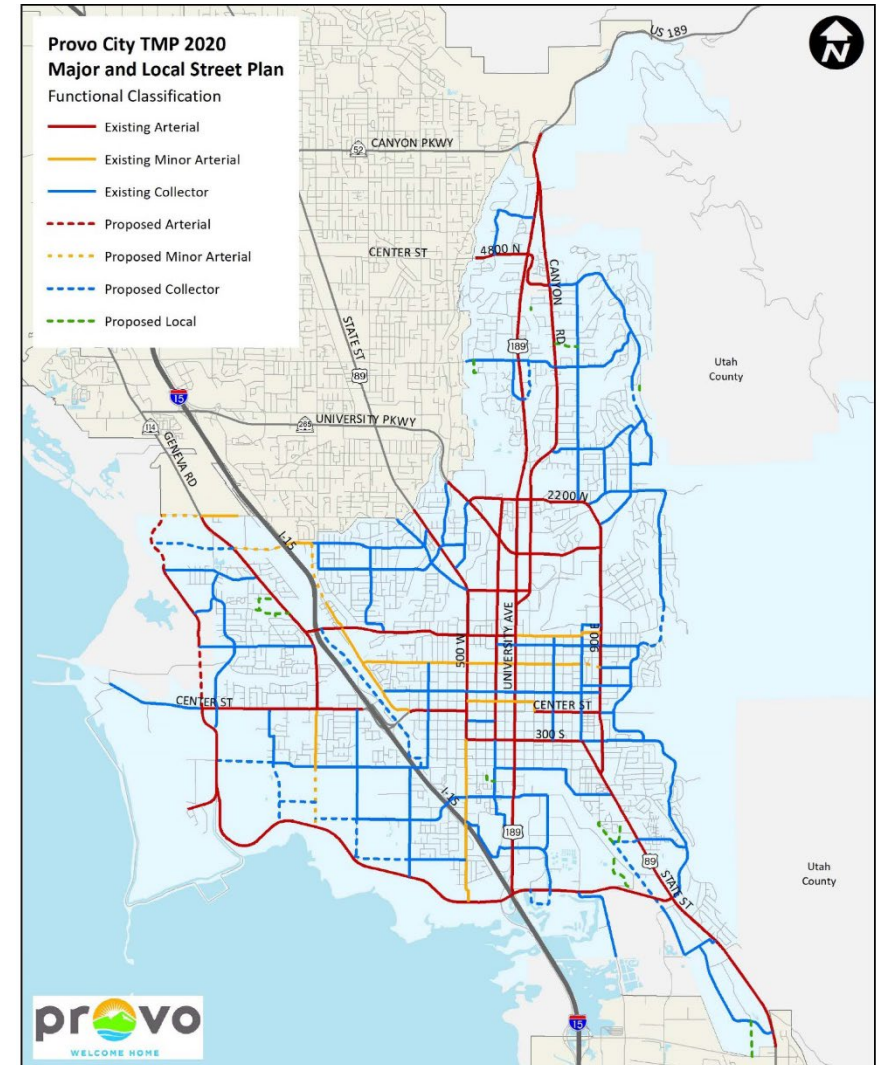


800/820 North Corridor:

Planning Context

Provo City's Transportation Master Plan (TMP)

- An I-15 Interchange is not listed on Provo City's TMP
- However, 820 North from Geneva Road to University Avenue has been on Provo's TMP as an arterial since 1977
- From University Avenue to 700 East, 800 North is a minor arterial



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at 820 North

Utah Department of Transportation (UDOT)

- A potential new I-15 Interchange will require an environmental analysis
- The environmental analysis is not fully funded
- The study area will be from Center Street in Provo to University Parkway in Orem
- UDOT will conduct that study



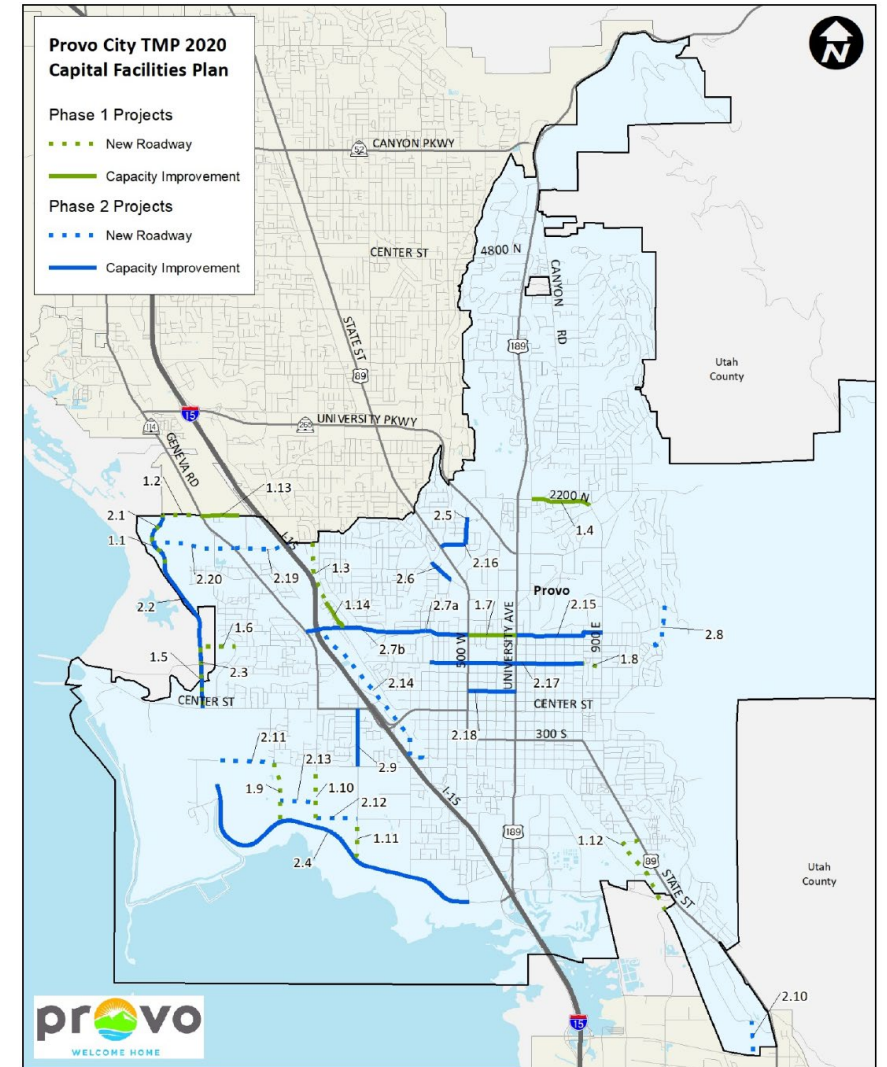
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at 820 North

Provo's Transportation Master Plan

- The Provo TMP lists the Provo River bridge as a Phase 2 project (2025-2040)
- Other projects on 800/820 North include the following:
 - Phase 1 (2018-2024) widen to 5 lanes from 500 West to University Avenue
 - Phase 2 (2025-2040) improve capacity, safety, and active transportation from Geneva Road to 500 West
 - Phase 2 (2025-2040) widen from 2/3 lanes to 3 lanes from University Avenue to 900 East



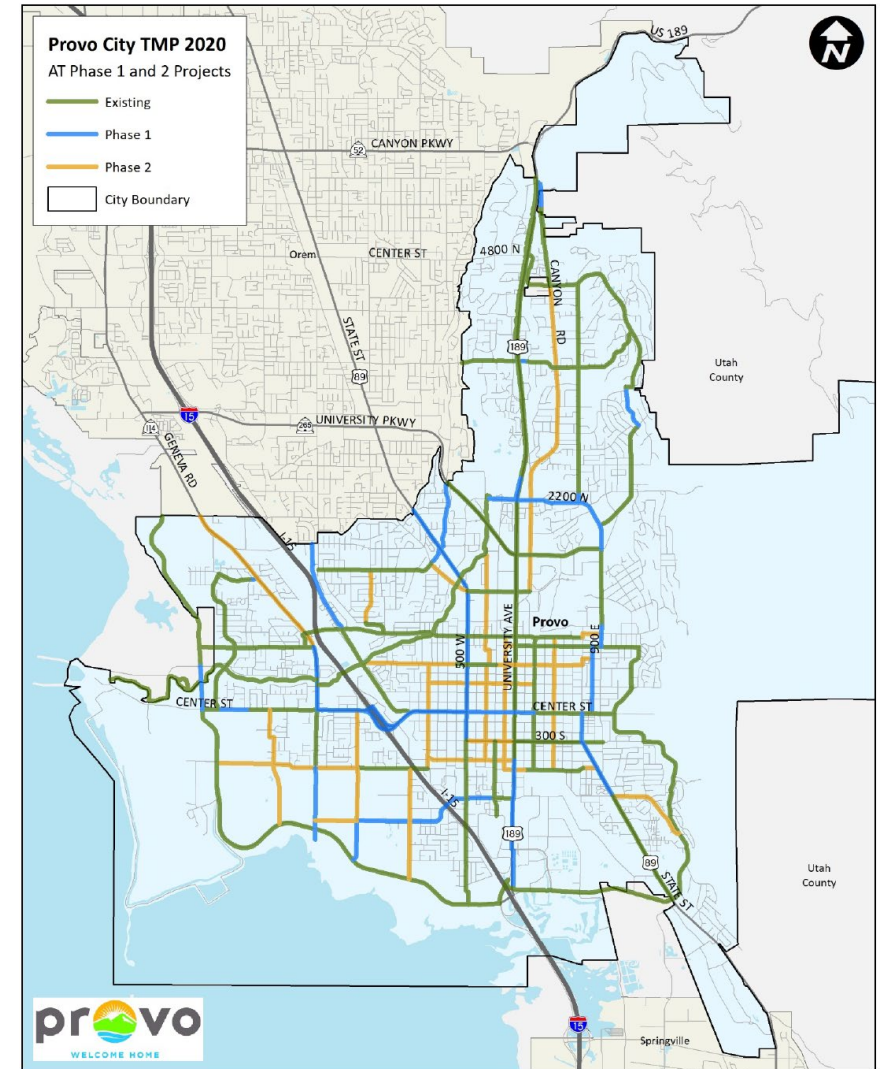
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at 820 North

Provo City Transportation Master Plan - Active Transportation

- Proposed multi-use path on south side of 800/820 North from 700 East to Geneva Road



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at 820 North

Provo River Trail

- The Provo River Trail is highly used
- It varies from 8 feet in width to 16 feet
- It is 8 feet wide under the Provo River bridge



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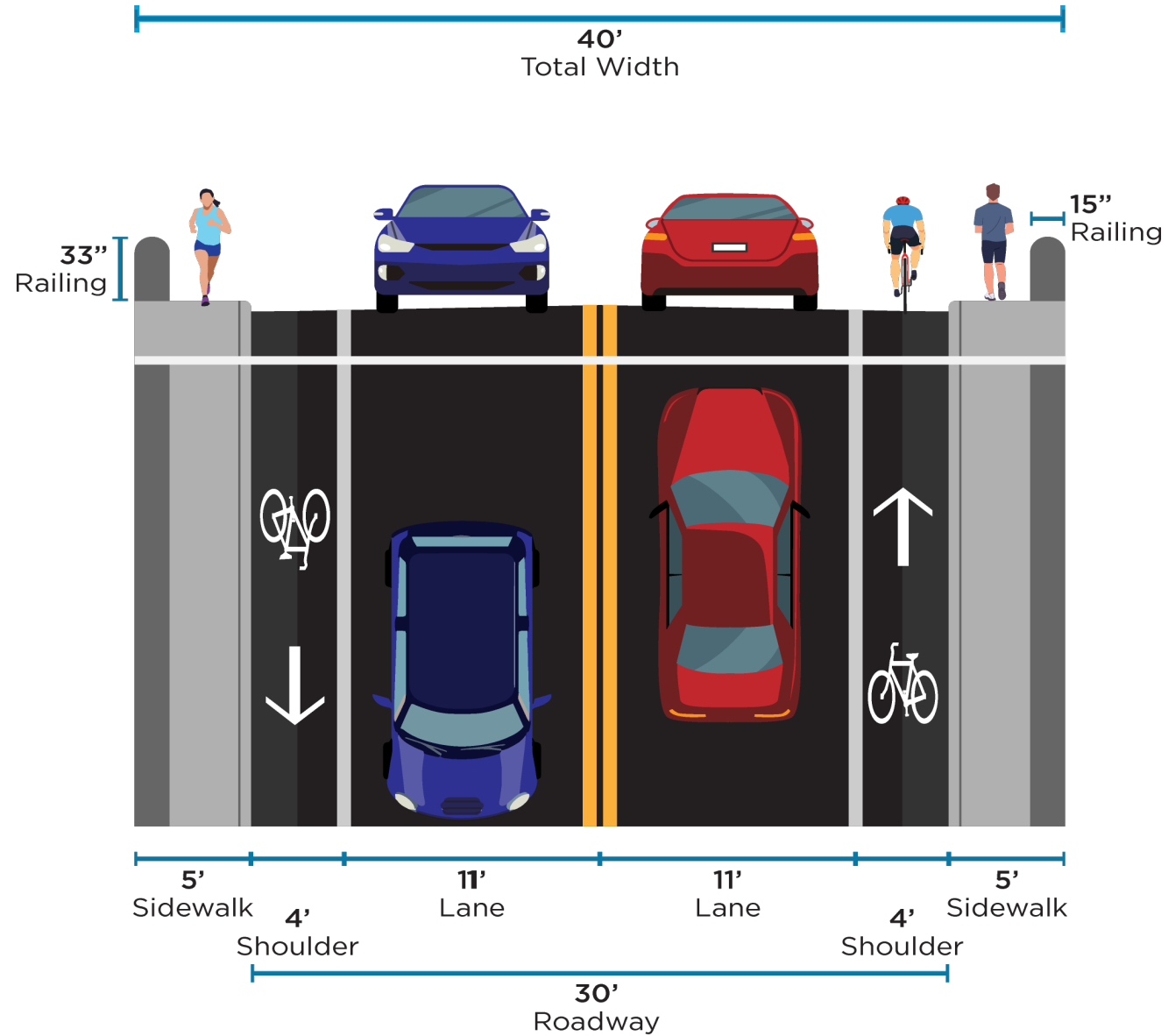


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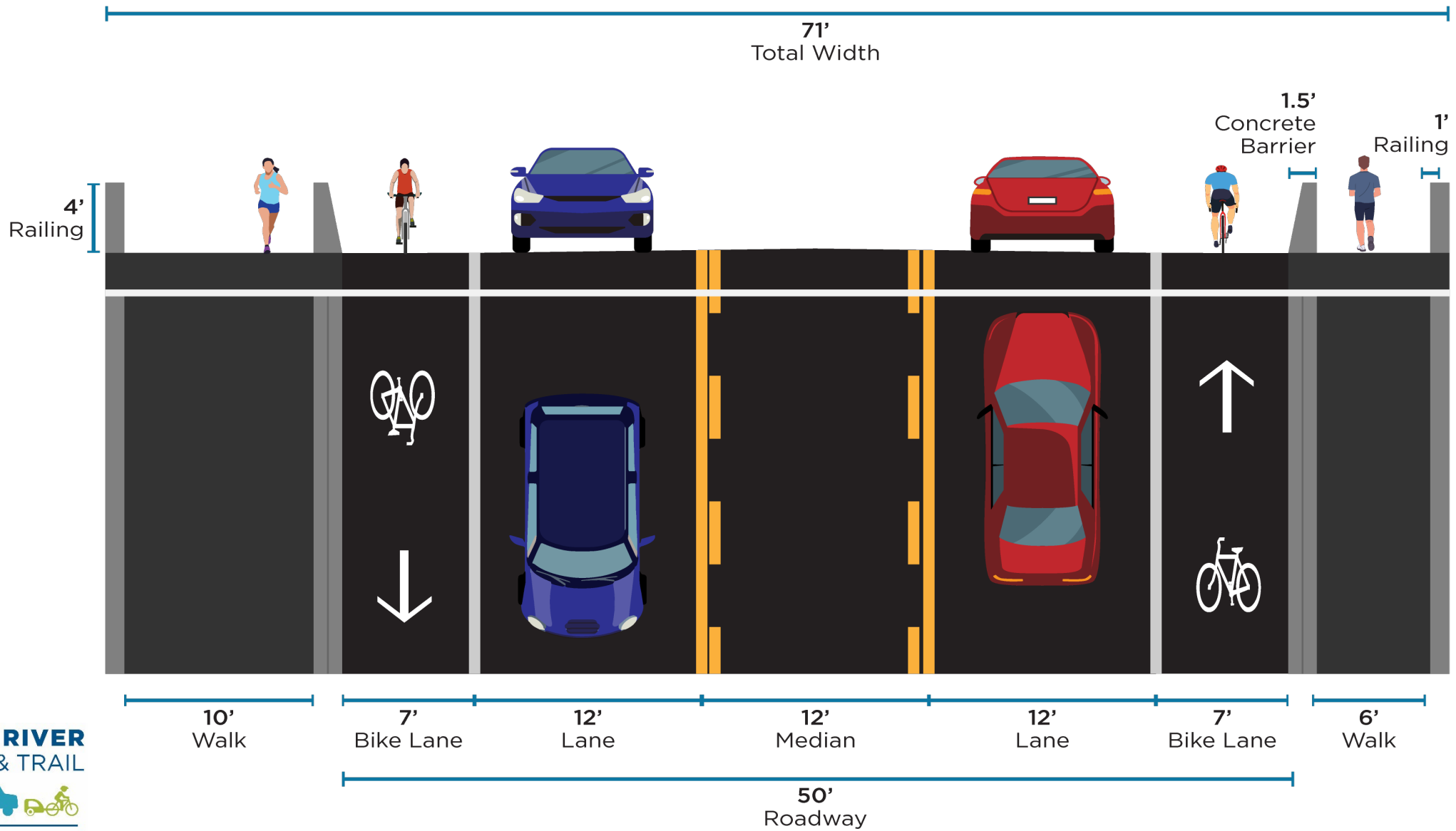
Provo River Bridge & Trail:

Potential Cross-sections

EXISTING BRIDGE CROSS SECTION



3 LANE MINOR ARTERIAL CROSS SECTION



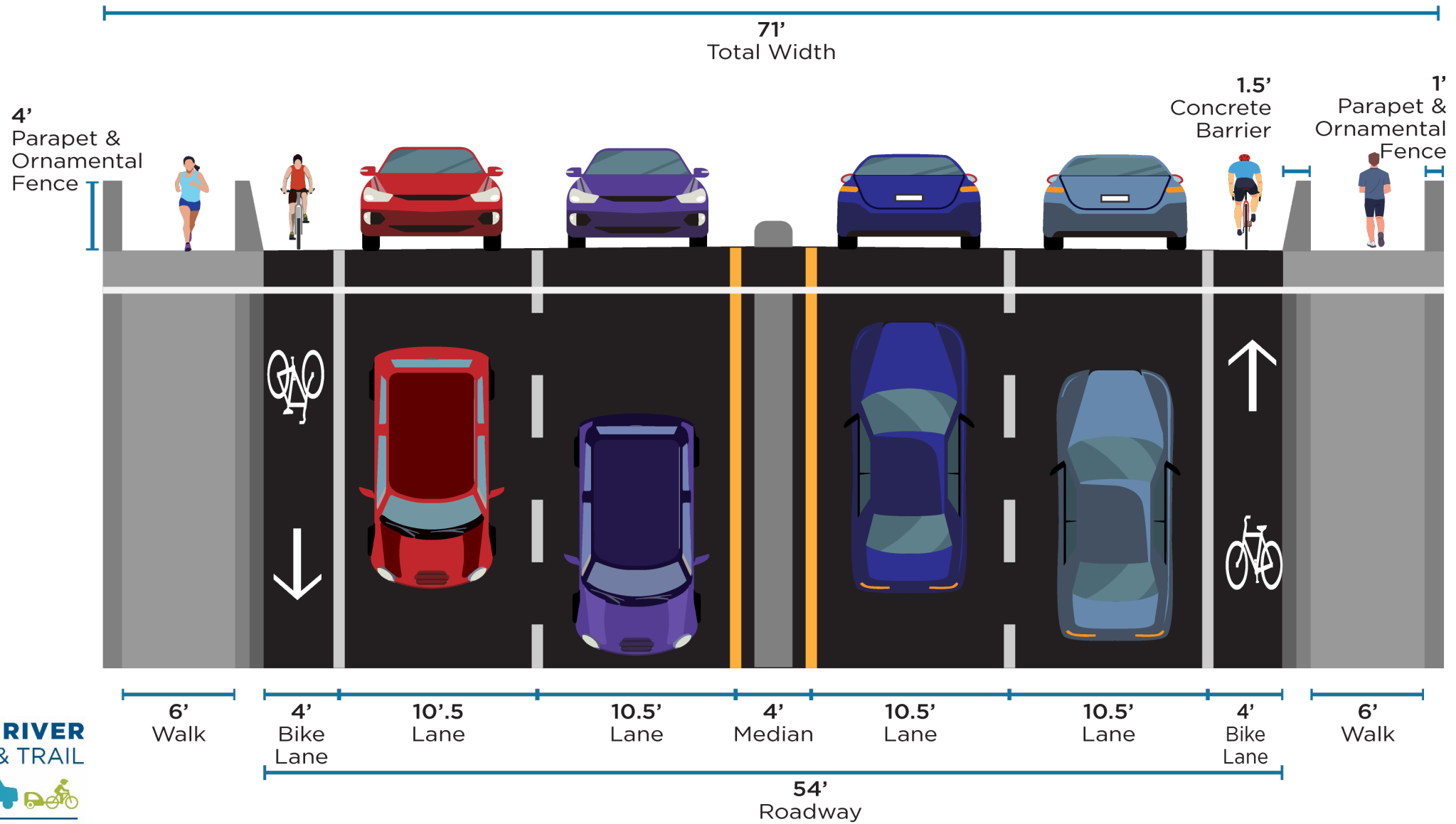
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5 LANE MINOR ARTERIAL CROSS SECTION



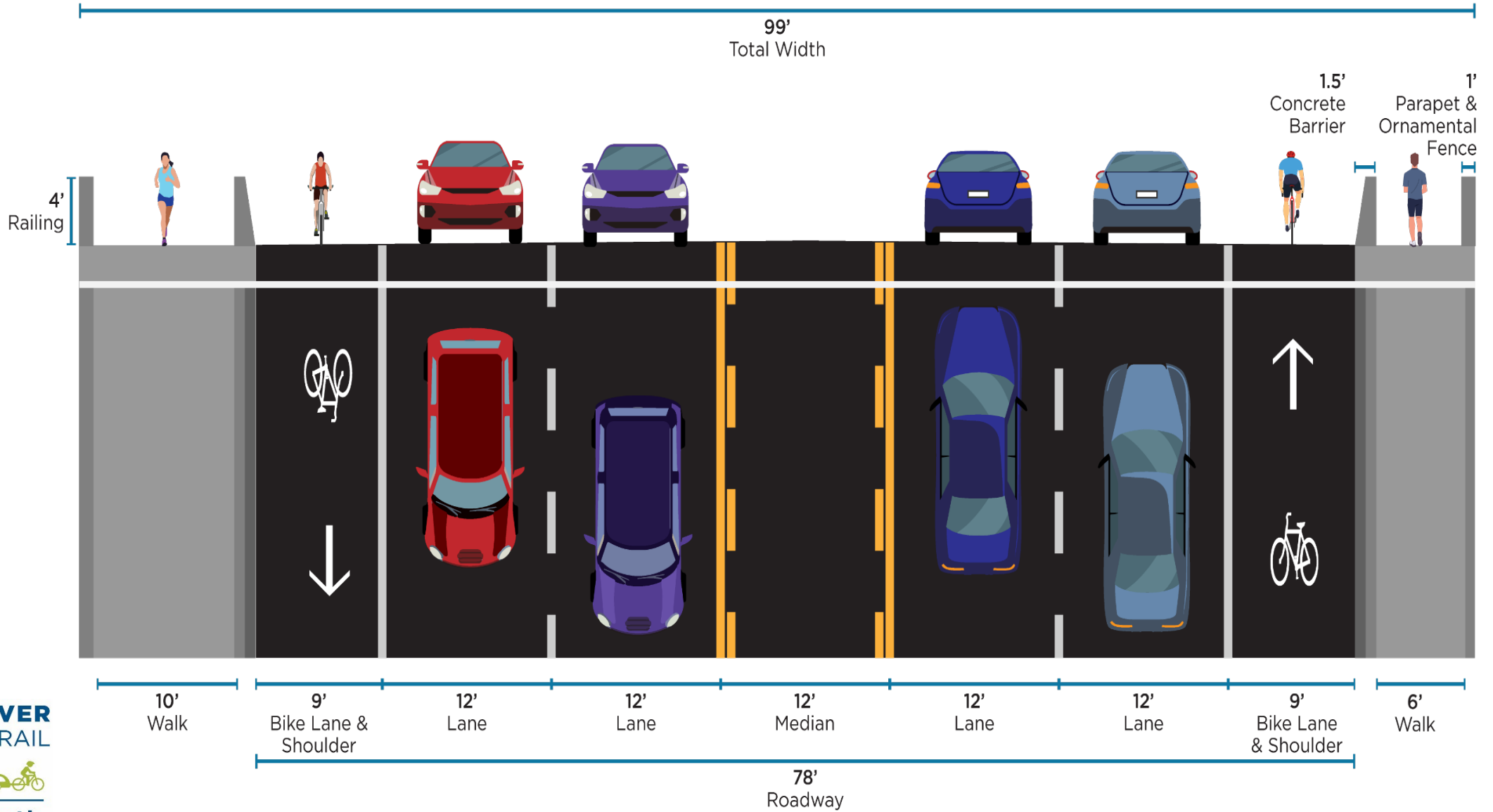
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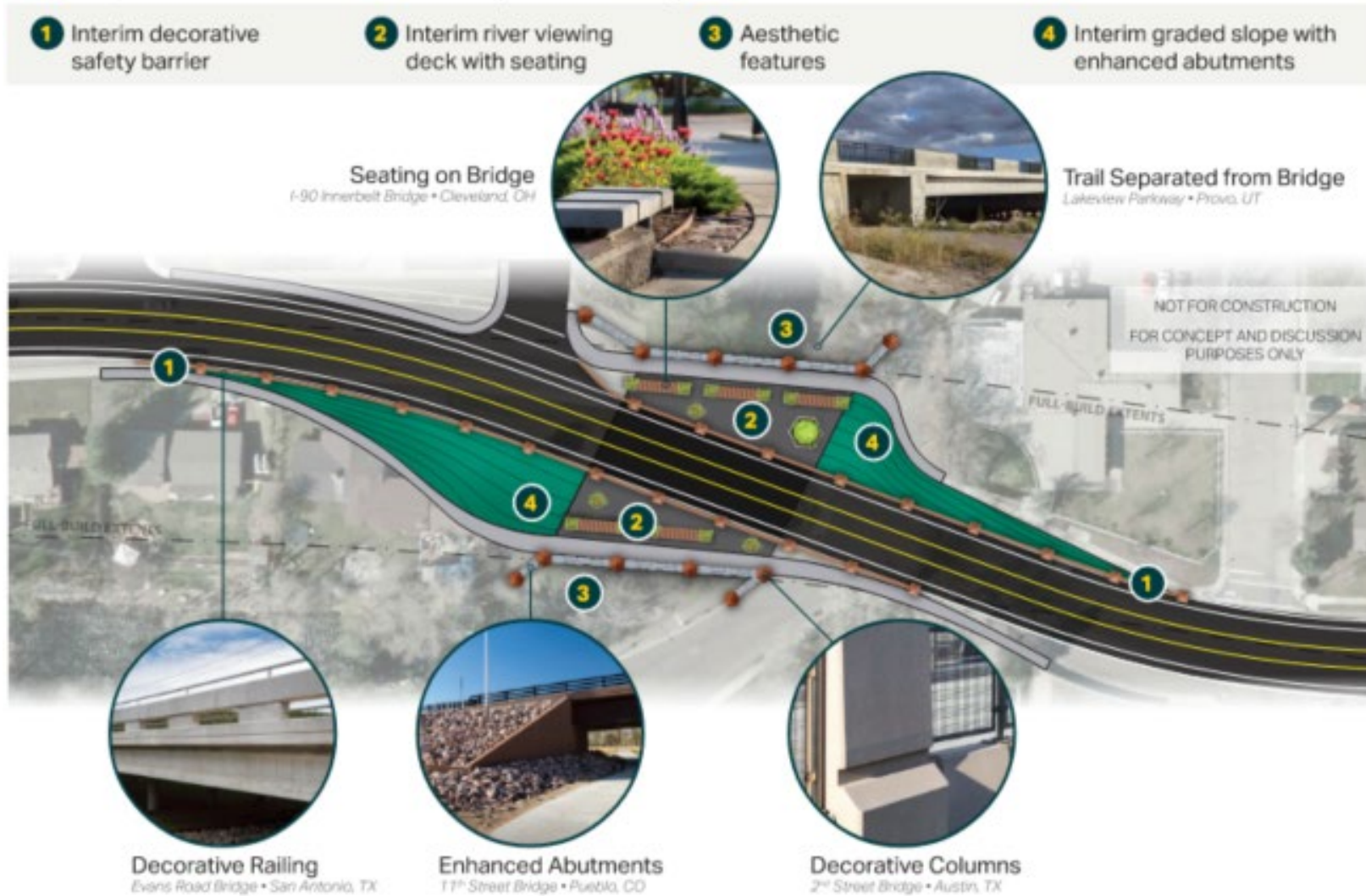
at 820 North



5 LANE ARTERIAL CROSS SECTION



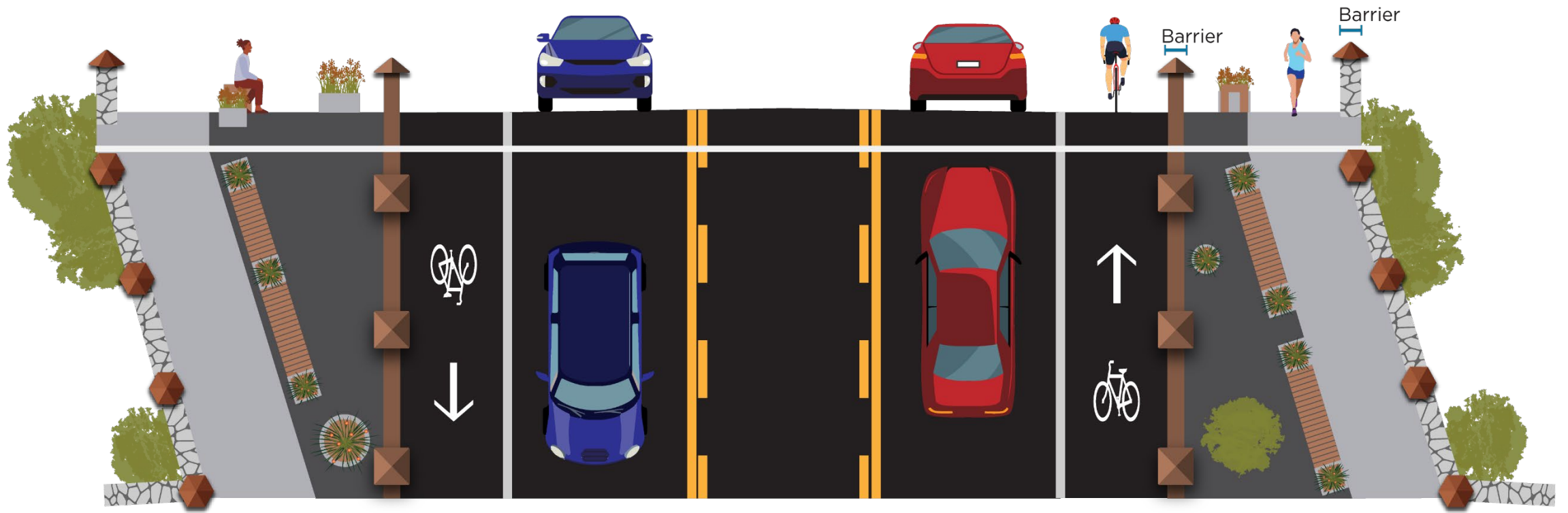
The Bridge Could Be Transitional



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6' Walk 7' Bike Lane 12' Travel Lane 12' Median 12' Travel Lane 7' Bike Lane 6' Walk

50' Roadway

TRANSITIONAL WIDTH
Amenity Zone

TRANSITIONAL WIDTH
Amenity Zone



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MINOR ARTERIAL



ARTERIAL



Provo River Bridge & Trail: --- Public Involvement

Public Involvement: Listen, Be Proactive, and Transparent

- Inform Stakeholders
 - Planning Commission, Transportation and Mobility Advisory Committee, Brigham Young University, Intermountain Health, Downtown Provo, Inc., BikeWalk Provo, etc.
- Neighborhood Outreach
 - Meet with Neighborhood Districts, attend pop-up events, and public open house
- Citywide Information
 - Provide project website, email, and hotline. Broad distribution of information in newsletters, and social media



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Informational Meetings

- Utah Department of Transportation – April 2, 2024
- Mayor and City Administration – April 4, 2024
- City Council – April 16, 2024
- Transportation and Mobility Advisory Committee – April 18, 2024
- Planning Commission – April 24, 2024
- Neighborhood Districts – May 1, 15, 29, June 5, July 17, 2024
- Mountainland Association of Governments – May 6, 2024
- Downtown Provo, Inc. – May 15, 2024
- Intermountain Health – TBD
- Brigham Young University – TBD
- BikeWalk Provo – May 2, 2024
- General Public Meeting – June 6, 2024

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Project Information

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Comments & Questions

