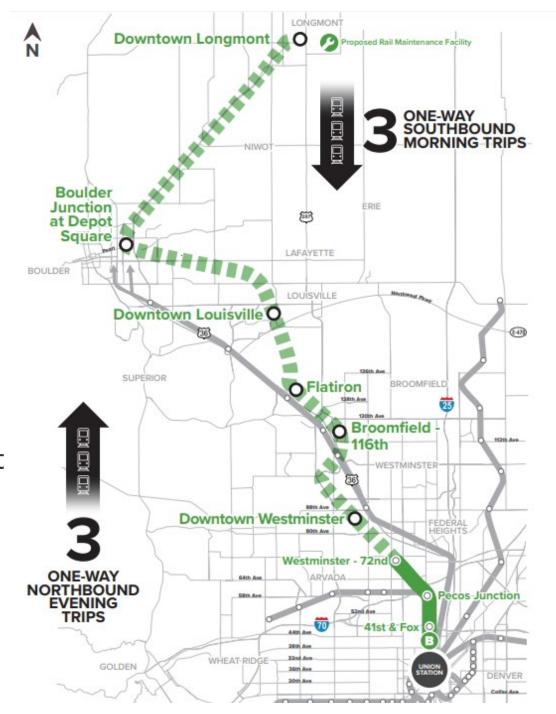


Overview and Study Update

DRCOG Regional Transportation Committee

Overview

- Project Status
- Required Infrastructure
- Common Set of Facts
- Opportunities
- Community and Stakeholder Engagement





Project Status

Finalizing Peak Service Feasibility Study

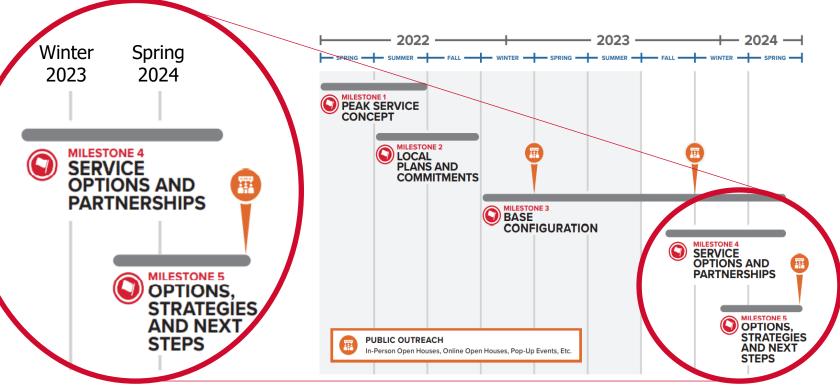
HDR completing Milestone 3
 Base Configuration requirements,
 initiating Milestone 4

BNSF Railway 30% design, 30% costs pending

FRPR District

 HNTB Service Development Plan (SDP) in progress

RTD and Front Range Passenger
 Rail (FRPR) District identifying
 opportunities for efficiencies in delivery/operations





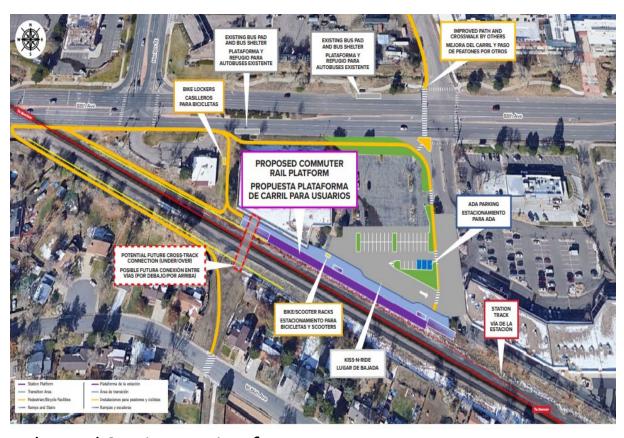
Required Infrastructure

Six New Stations

- RTD standard commuter rail station design
- Level boarding platforms on sidings (accessibility compliance)

Three Freight Passing Sidings

- 7.2 total miles (minimizes stopped trains at roadway crossings)
- Track Improvements for Speed and Reliability

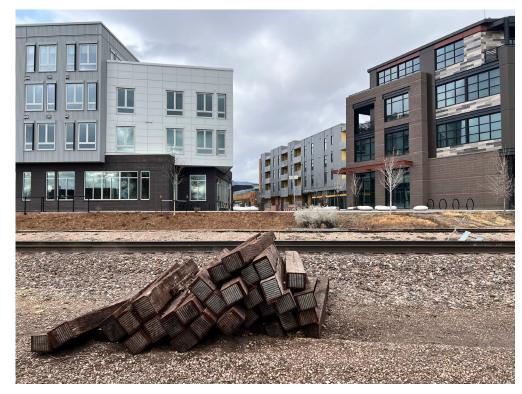


Planned Station Design for Downtown Westminster



Required Infrastructure (cont'd)

- Drainage Upgrade Requirements
- 41 At-grade Crossings
 - 22 quiet zones established; 8 planned by cities/counties
 - Safety improvements at modified crossings
- Rail Maintenance Facility in Longmont
- Mid-day Layover Facility at Westminster Station

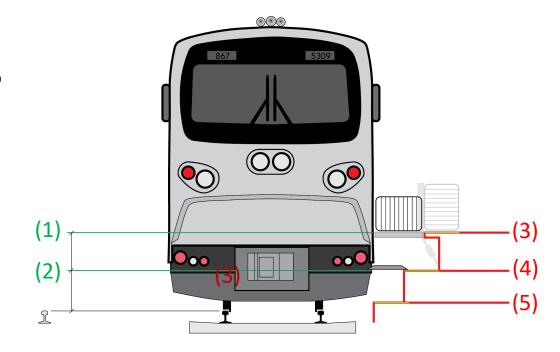


Planned Station Location for Boulder Junction at Depot Square



Required Infrastructure: Accessibility Compliance

- Why are high-level boarding platforms recommended for Northwest peak service?
 - Equitable and operationally efficient outcome
 - Requirements
 - Level boarding
 - Equal service to all Northwest corridor stations and existing high-platform B Line stations
 - Operating conditions
 - Low-level platform at Denver Union Station would likely interfere with Amtrak and FRPR District operations
 - Northwest Peak Service and B Line service should operate from the same platforms



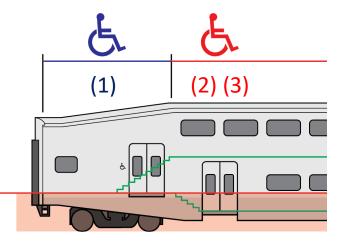
- (1) RTD Standard Commuter Rail Platform Height
- (2) Standard Low Floor Vehicle Height
- (3) Mechanical Bridge Across Platform or High Block Gap
- (4) Manual Bridge Across Platform Gap
- (5) Not ADA Accessible

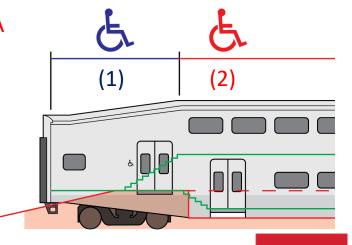


Required Infrastructure: Accessibility Compliance

- Why are high-level trains recommended for Northwest peak service?
 - Low floor cars can <u>never</u> serve high platforms
 - Mini-high blocks no longer accepted by FTA when level boarding is possible
 - Disadvantages of cars serving multiple platform heights:
 - Require operable lifts or platform gap fillers
 - Higher design, installation, and maintenance cost
 - ► Inferior and unequal access
 - Added dwell times
 - May "trap" ADA customers

- (1) Accessible at Existing
 High Platform
 Stations and MiniHigh Blocks with
 Bridge Plates
- (2) Low Floor Car Areas and Low Platforms Not Accessible to ADA Passengers
- (3) Low Floor Doors
 Blocked at Existing
 High Platforms







Peak Service Feasibility Study Analysis

Key Considerations

- Initial level of service
- Operational requirements
- Required infrastructure
- Cost to build and operate
- Travel time
- Projected ridership
- Benefits and impacts

Focused on RTD Service Only

 Establishes the baseline required for a partnership with FRPR District and BNSF



Public Meeting



Common Set of Facts

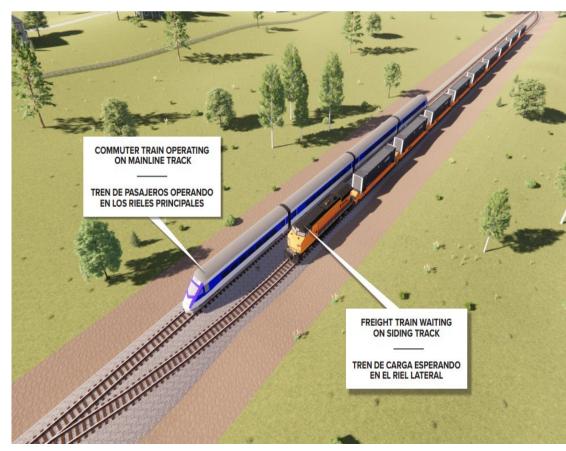
Capital Costs

- Stations and accessibility compliance
- Track improvements and sidings
- Acquisition of easement from BNSF

Operating Costs

- Operating and maintaining trains and stations
- Train operations (TBD), dispatch (BNSF/DTO), and track maintenance (BNSF)

Ridership Projections



Typical Freight Siding



Common Set of Facts (cont'd)

Impacts and Benefits

- Environmental impacts (NEPA assessment factors)
- Environmental justice and equity (including Title VI factors)
- Land use impacts and transit-oriented development opportunities
- Avoiding actions that preclude FRPR requirements
- Public/stakeholder identification of issues

Service Characteristics

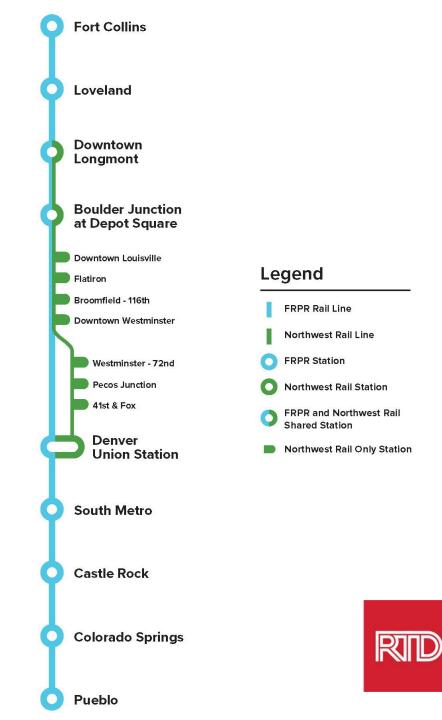
- Travel time
- Required infrastructure (station parking and access)



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Opportunities

- Northwest Rail Peak Service and Front Range Passenger Rail
 - Separate projects, overlapping route, several shared stations
- Economies of Scale are Possible
 - Probable joint operational efficiencies
 - Potential synergies arising from a common fleet type
 - Possible to share and reduce operations and maintenance costs
 - Potential to share in track improvement costs
 - Potential to share in cost of safety systems and crossing upgrades



Community and Stakeholder Engagement

- 2023 Activities
- Two Corridor-wide Open House Events
 - January-February 2023 Boulder, Westminster
 - November 2023 Longmont, Broomfield
- Local "Pop-up" Events
 - June-October 2023 14 community-based events
 - 885 visitors
- Monthly Study Advisory Team Meetings
- One-on-one Concept Design Meetings
- Board Committee Update
 - April 2023
 - October 2023



Public Outreach Popup Event



Community Engagement (cont'd)

- Activities Since October 2023 Board Committee Update
- November 2023 Public Meetings
 - 30 attended in Longmont
 - 100 attended in Broomfield

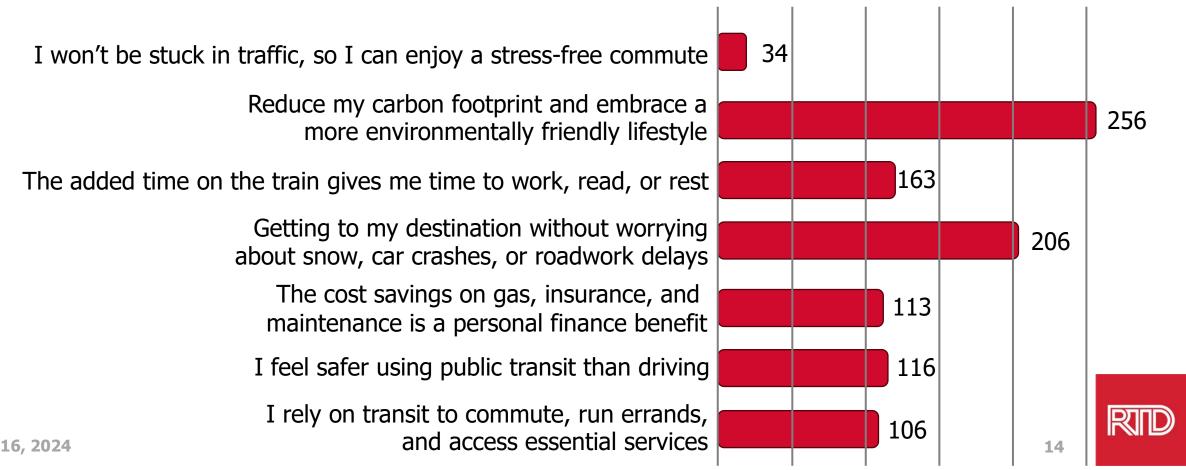
RTD Study Website Comment Form

- 785 e-mail sign-up and comments
- Self-Guided Online Meeting
 - 6,019 total views
 - 2,598 engaged sessions (clicked a call-toaction, video, survey, etc.)
 - 393 total survey responses



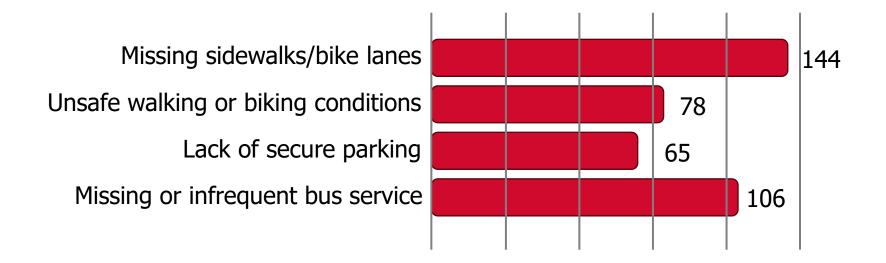
Survey Input – Peak Service Benefits

What do you see as the benefits of the peak rail service plan? Pick 3.



Survey Input – Peak Service Station Barriers

What do you believe is your greatest barrier to accessing the station?

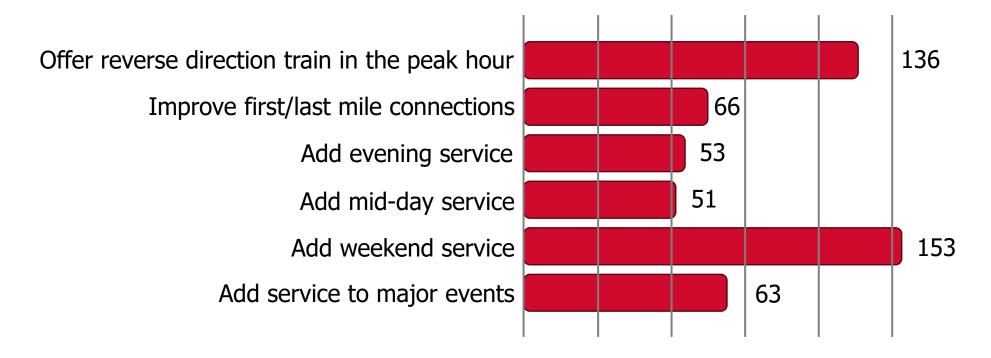




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Survey Input – Peak Service Enhancements

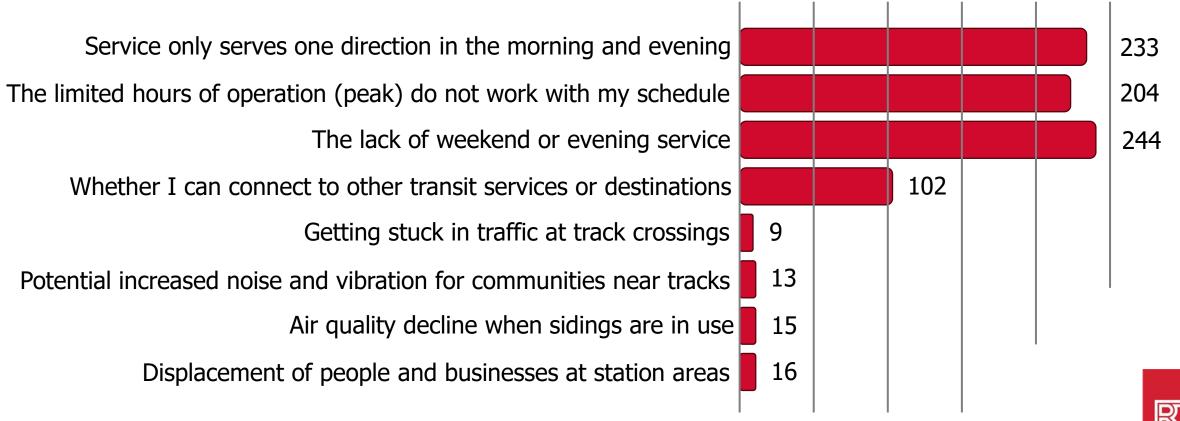
How can peak service be enhanced to better meet your needs and expectations?





Survey Input – Peak Service

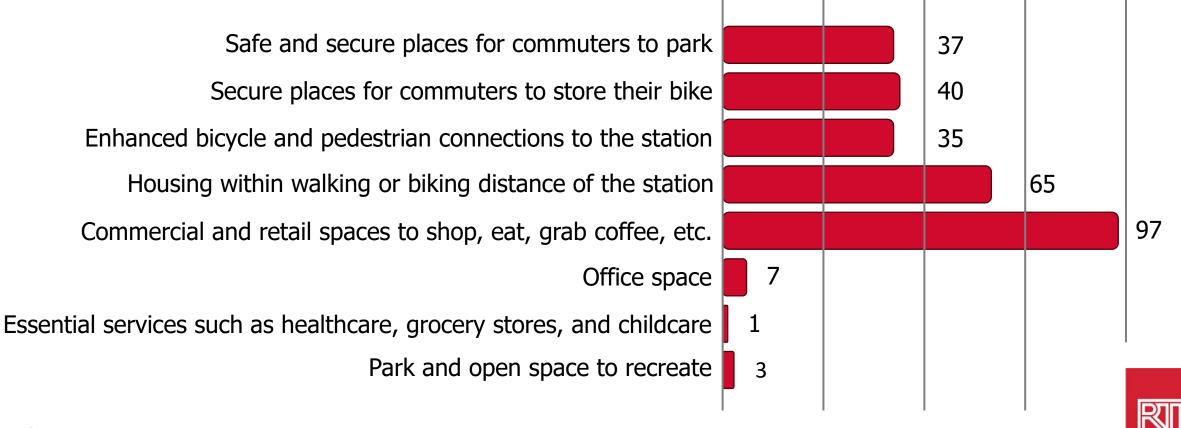
What concerns you most about peak rail service?



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Survey Input – Future Stations

What is the most important element to include at or adjacent to future stations? Pick 1.



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Next Steps – Look Ahead to Key Efforts

Identify the Required Infrastructure

- Inventory cost for track and siding improvements, systems, crossings, stations, and fleet
- BNSF 20% design and rough cost estimates complete, 30% (final scope) in progress

Complete the Common Set of Facts

- BNSF costs for easement and track construction
- RTD costs for station and maintenance/storage facility construction
- Fleet acquisition cost
- Operating and maintenance, and ongoing expenses to BNSF
- Ridership



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Next Steps – Look Ahead to Key Efforts (cont'd)

Explore Opportunities

 Evaluate an implementation framework in partnership with FRPRD, CTIO, and CDOT as required in SB24-184

Continue Community and Stakeholder Engagement

- Identify periodic community and stakeholder touchpoints as RTD and partners explore project delivery options (ongoing RTD commitment following feasibility study completion)
- Address challenges with station concept designs for Louisville and Boulder through local agency collaboration and further public engagement (future action between RTD and cities)



Thank you.



