



Federal Boulevard BRT

DRCOG Board of Directors
September 18, 2024



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Department of Transportation



- Project Overview
- Previous Projects and Project Background
- Project Committees and Guidance
- Project Status
- Public Engagement

Project Overview



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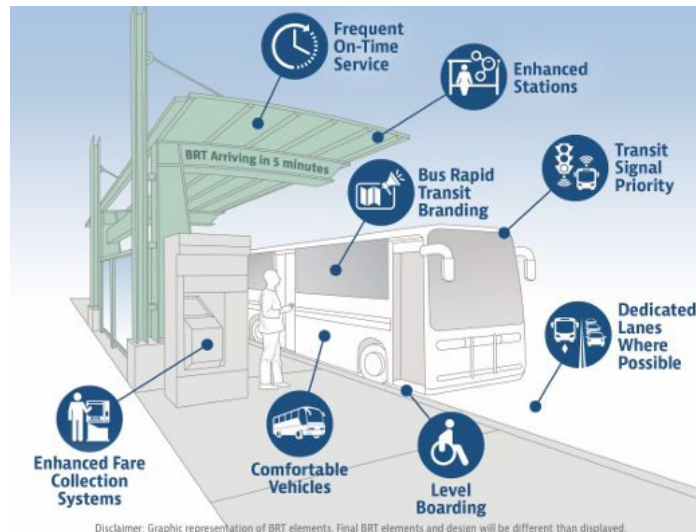
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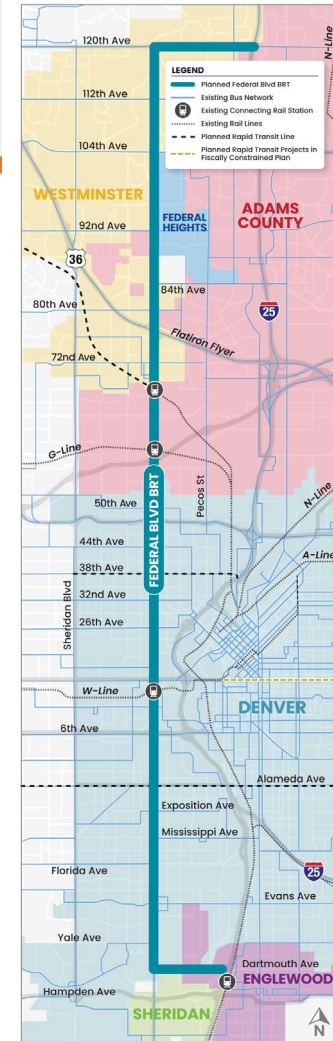
Federal Blvd BRT

Federal Blvd BRT Project Features

- Branded Bus Rapid Transit along Federal Blvd. from Dartmouth Ave. to 120th Ave.
- Increased Service Frequency
- Upgraded and Consolidated Stations
- Enhanced connections to key rail and bus lines



Disclaimer: Graphic representation of BRT elements. Final BRT elements and design will be different than displayed.





Source	Status	Federal or State/Local
Small Starts Capital Investment Grant (CIG) Program	Planned	Federal
10 Year Plan Strategic Funds	Budgeted	Federal
Surface Transportation Block Grant	Programmed	Federal
Non-Attainment Area Pollution Mitigation Enterprise (NAAPME)	Under Consideration	State/Local
Other Sources	Under Consideration	State/Local
Other Local Agency Funds	Committed	State/Local



POTENTIAL FEDERAL BRT OVERALL IMPLEMENTATION SCHEDULE



Previous Projects and Project Background



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Federal Blvd BRT

Project Background

RTD Regional BRT Feasibility Study (2019)

- Speed & reliability improvements
 - Dartmouth Ave. from Federal Blvd. to Englewood Station (RTD Rail)
 - Federal Blvd. from 17th Ave. to 50th Ave.
- Dedicated transit lane with Transit Signal Priority (TSP)
 - Federal Blvd. from Dartmouth Ave. to 17th Ave.
 - Federal Blvd. from 50th Ave. to 120th Ave.
 - 120th Ave. from Federal Blvd. to Wagon Road Park and Ride (I-25)



Existing Peak Service Plan

Route	Segment	Wagon Park	Wagon Road	East	West
29	Evans to Littleton	30	60	60	na
30	Colfax to Evans Evans to Wadsworth/ Hampden	15	30	30	30
30L	Wadsworth/Hampden to CBD	na	na	na	na
31	FRCC to Evans US-36/Sheridan to Evans	30	30	30	60
31L	104th to CBD	na	na	na	na
36	Federal/Exams to Littleton	60	60	60	na
36L	Littleton to CBD	na	na	na	na

2017 Average Weekday Boardings: 10,025

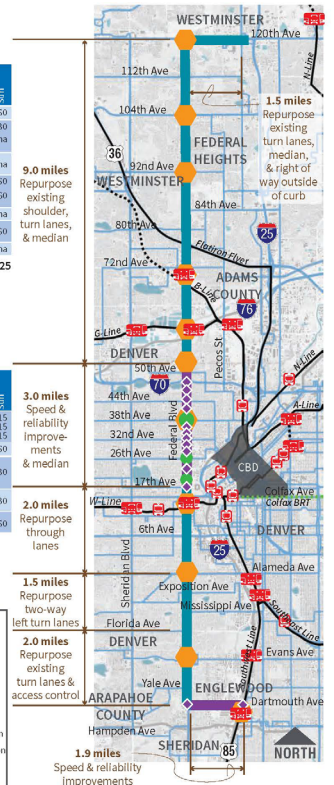
Proposed Peak Service Plan

Route	Segment	Wagon Park	Wagon Road	East	West
BRT	Wagon Rd to B-Line B-Line to Federal/Exams	10	15	15	15
29	Federal/Exams to Wadsworth/ Hampden	30	30	60	60
31	US-36/Sheridan to FRCC via B-Line	30	30	30	30
36	Federal/Exams to Littleton	30	30	60	60

LEGEND

- Mobility Hub
- Transit Signal Priority (TSP)
- Bi-Directional Queue Jump with TSP
- One Way Queue Jump with TSP
- Speed & Reliability Improvements
- Dedicated Transit Lane with TSP
- Existing Bus Network
- Existing & Funded Rapid Transit Line and Station
- Planned Rapid Transit Line and Station
- Rapid Transit Projects in Fiscally Constrained Plan
- Existing BINSTANG Station
- Planned BINSTANG Station

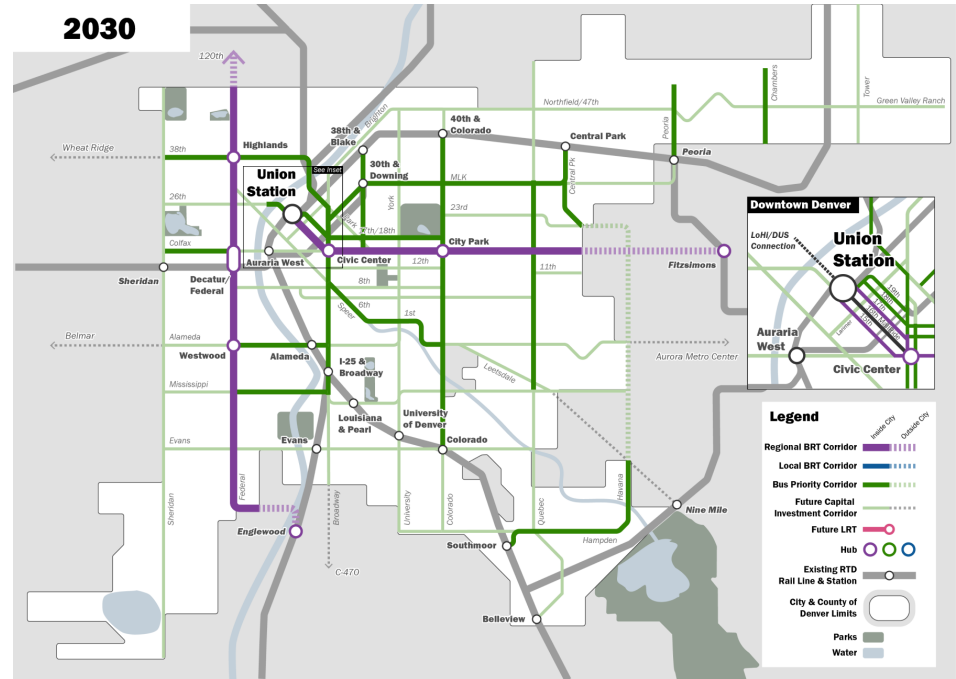
Federal Blvd TIER 4 Evaluation





Denver Moves: Transit Plan (January 2019) and Phase 2 Plan (2021)

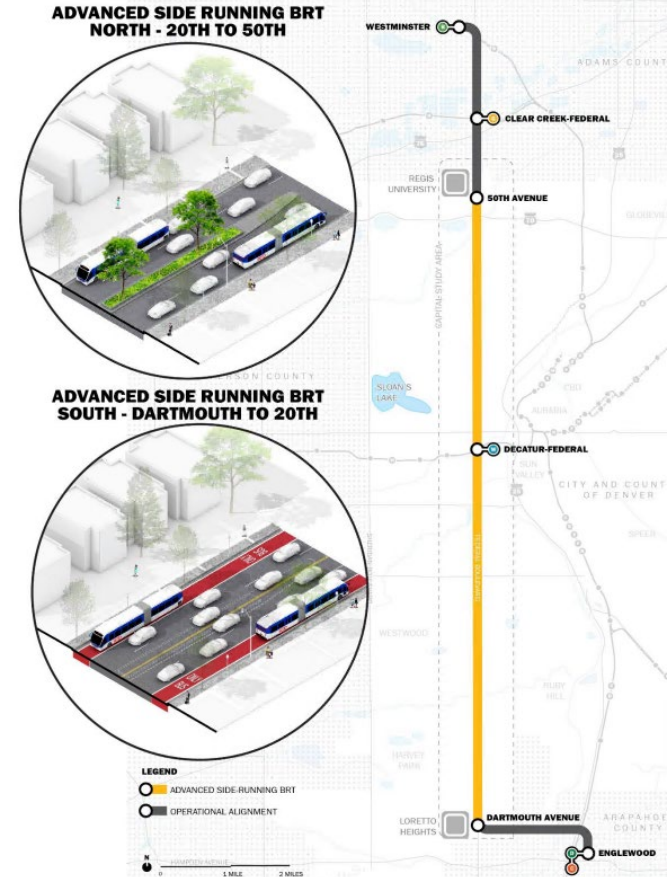
- High-Capacity Transit Corridor
- Frequent Service (15 min headways) from 52nd Ave to Colfax
- Very Frequent (5 - 10 min headways) from Colfax to Dartmouth
- Short term Speed & Reliability improvements





Denver Federal Boulevard BRT Alternatives Analysis (2022)

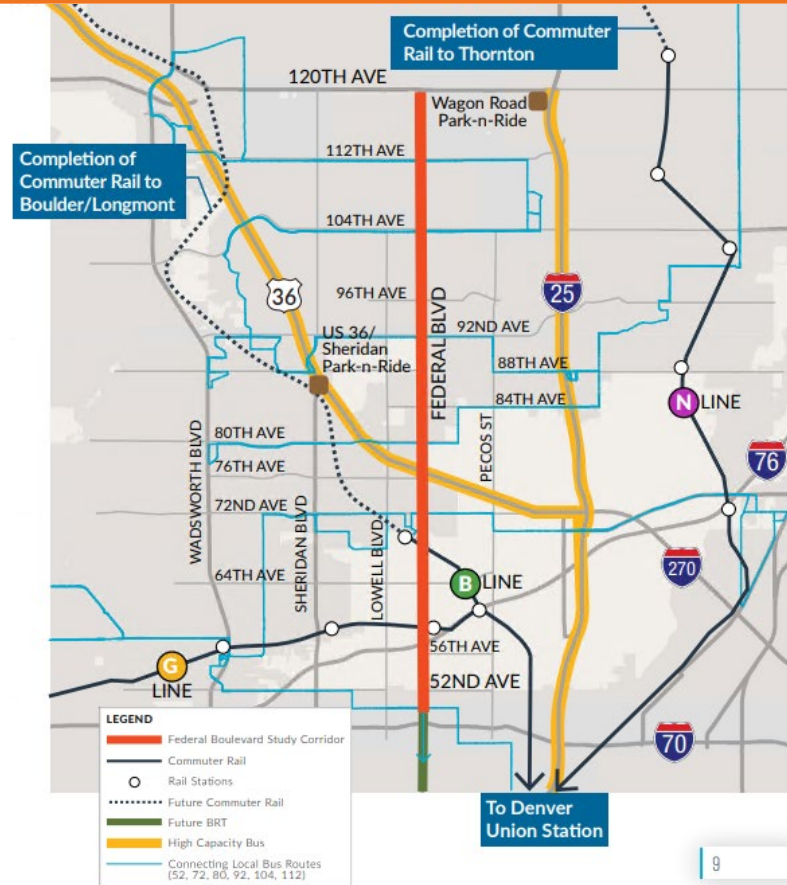
- Side-Running BRT from 20th Avenue to Bates Avenue (or Dartmouth Avenue)
- BRT stop improvements and priority throughout the entire corridor (50th Avenue to Dartmouth)
- Service Plan
 - Weekday peak 5-minute headways
 - Weekday off-peak 10-minute headways
 - Saturday 7.5-minute headways
 - Sunday 15-minute headways





Federal Boulevard Multimodal Transportation Study (Dec 2021)

- Transit Recommended Improvements:
 - South of I-76: Convert and widen shoulders to BAT lane
 - Bus queue jump at I-76 ramp signals
 - North of I-76 to 120th Ave: Convert shoulder or outside travel lane to BAT lane
 - 5-minute frequency

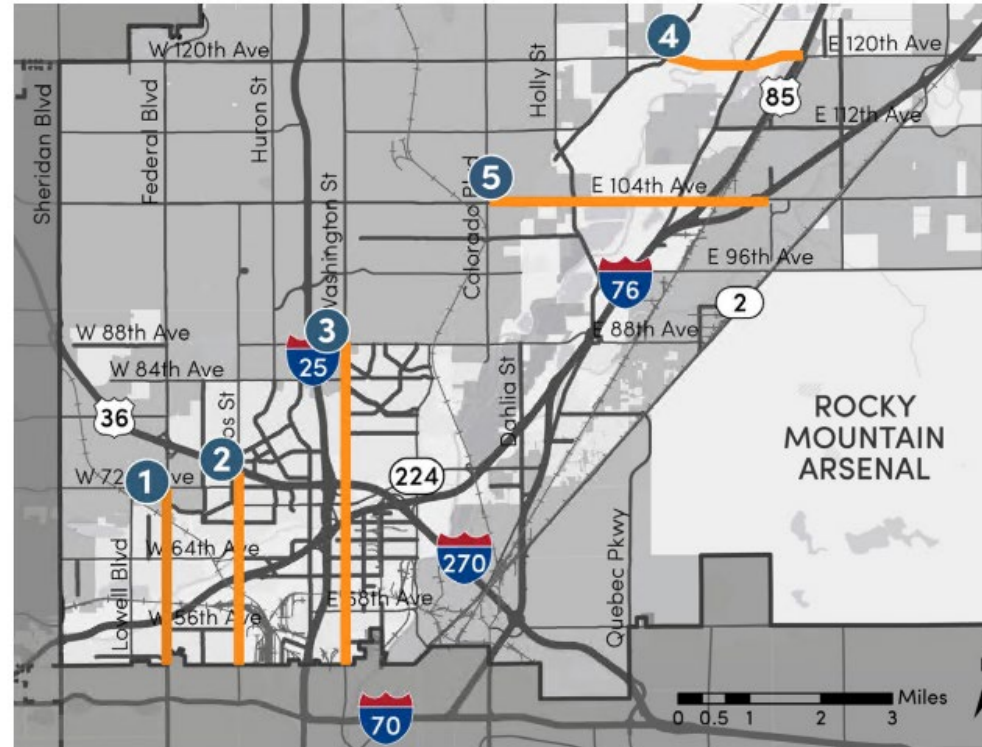




Adams County Transportation Master Plan (September 2022)

- Establishing Federal Boulevard as an enhanced transit corridor
 - Bus Lanes
 - Enhanced Bus Stops
 - Transit Signal Priority
- Completing/upgrading the sidewalk network where feasible to establish better pedestrian connectivity
- Making connections between Federal Boulevard and the Clear Creek Trail

MAP ES.1: FIVE CORRIDORS



Five Strategic Corridors



Federal Blvd BRT

Project Background

DRCOG 2050 Regional Transportation Plan (April 2021)

- Federal Boulevard BRT 120th to Dartmouth
- Bus rapid transit service and supporting safety/multimodal improvements





Federal Blvd BRT

Project Background

2022 CDOT 10-Year Plan (September 2022)

- Building new BRT in the Denver Metro Area designed to be more reliable, faster, and frequent than traditional bus service
- \$170M to support construction of several new BRT routes, including Federal Boulevard
- Expanding BRT service across the metro area, making transit a viable option for thousands of commuters along the front range



VISION FOR COLORADO'S TRANSPORTATION SYSTEM

UPDATED 10-YEAR STRATEGIC PROJECT PIPELINE - SEPTEMBER 2022



“In May 2019, I directed the Colorado Department of Transportation (CDOT) to embark on an effort to refresh our transportation plan and priorities based on firsthand input from residents across the state.

The resulting product – CDOT’s 10 Year Plan – has been instrumental in focusing the Department on delivering a defined set of priority projects, resulting in over one billion dollars of transportation improvements across the state. In 2022, this updated plan puts new state and federal transportation funding to work and identifies the next set of projects that will advance to construction.

The CDOT team looks forward to building these projects and creating a safer, more mobile transportation system for all Coloradans.”

Shoshana Law
–Shoshana Law, CDOT Executive Director

Project Committees and Guidance



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Committees and Project Teams

Executive Oversight Committee (EOC)

The role of the EOC, comprised of CDOT, FTA, RTD, and key Local Agency Executive Leaders, is to provide policy guidance, approve investment priorities and resolve issues elevated from the PLT.

Project Leadership Team (PLT)

The role of the PLT, comprised of CDOT, FTA, RTD, and Local Agency Leadership, is to make final decisions on key issues, technical components, process changes, comprehensive corridor communications and decisions at milestones recommended by the PMT.

Project Management Team (PMT)

The role of the PMT is to provide project-level management and decision-making, advise the PLT and make recommendations on key issues, technical components, etc.

Technical Working Groups

The role of the Technical Working Groups, comprised of technical experts from each partner agency & jurisdiction, is to provide specialized input related to project design finance, design, maintenance and operations.

Project Status



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Scope of Work Includes:

- Preliminary Design (30%)
- NEPA Evaluation/Environmental Assessment
- FTA CIG Small Starts Grant Application
- Public Engagement
- Traffic & Safety Analysis
- Ridership Forecasting
- Financial/Funding Analysis & Support

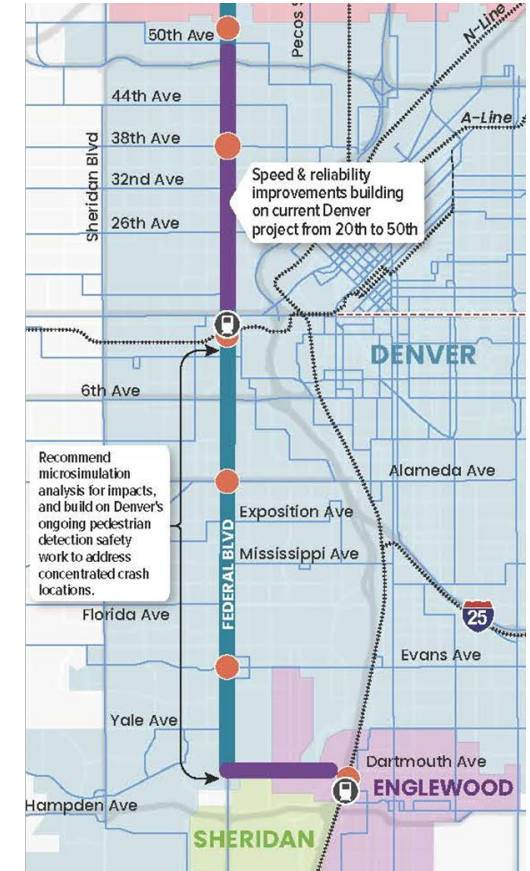
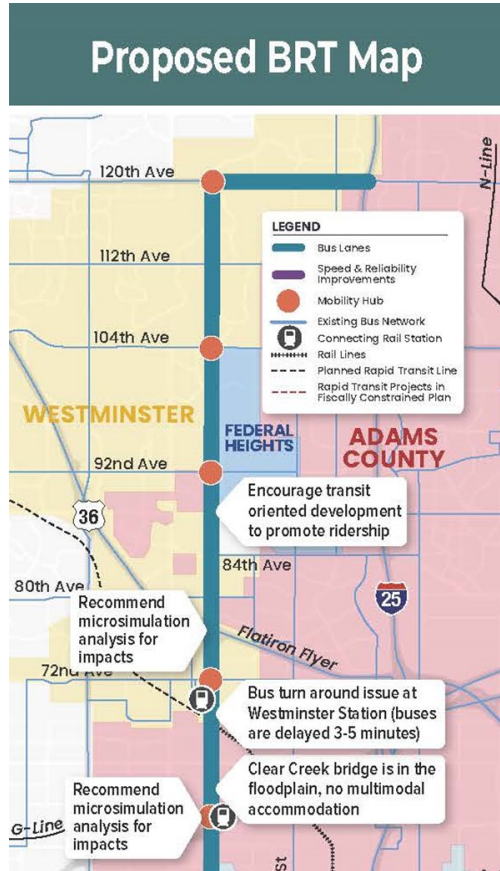




Federal Blvd BRT

Progress

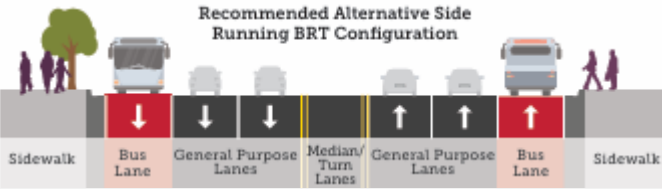
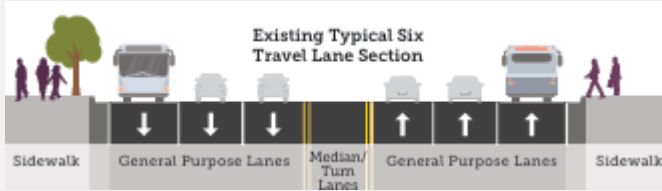
- Accepted into FTA’s Project Development phase for Small Starts Fall 2023
- Confirmed Locally Preferred Alternative with side-running alignment based on previous planning work
- Developed service patterns and preliminary station locations
- Developed 20% design and cost estimate for August 2024 Small Starts Rating Application





Federal Blvd BRT

Recommended Alternative Roadway Modifications

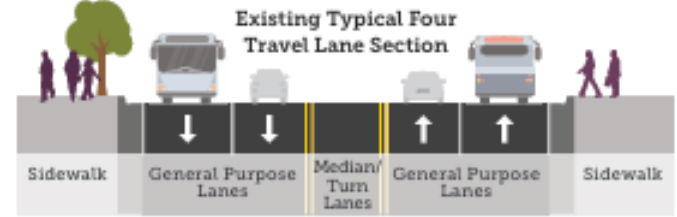
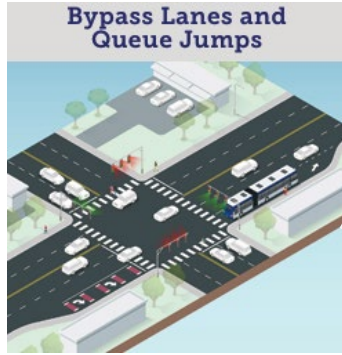


Side running bus lanes allow buses to move through the corridor without delays from general traffic congestion. Right-turning vehicles are allowed to use the bus lane to turn right.

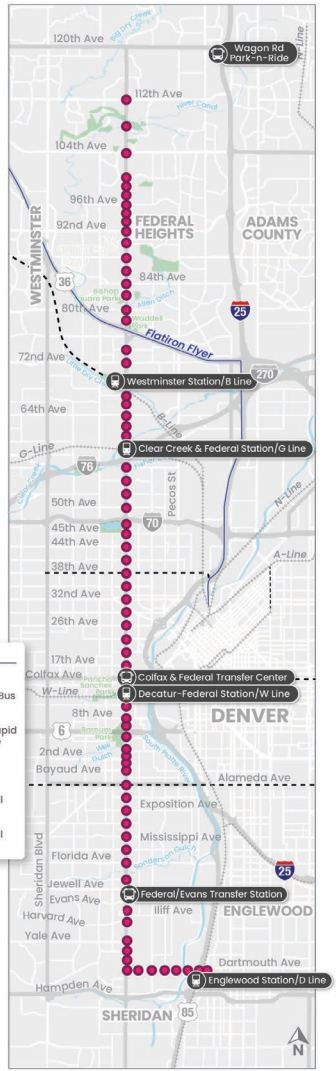


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Recommended Alternative Roadway Modifications

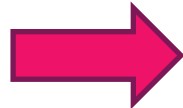


Recommended Alternative Stop and Station Modifications



Legend

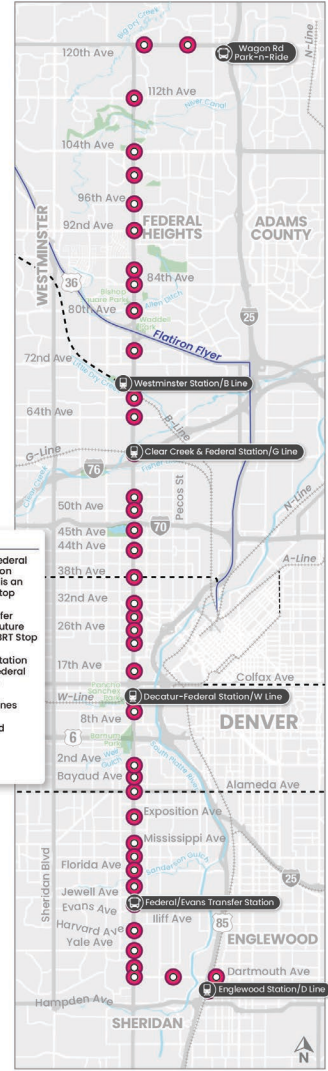
- Existing Federal Boulevard Bus Stop
- Planned Rapid Transit Line
- 🚏 Transfer Station
- 🚊 Existing Rail Station
- Existing Rail Lines



Legend

- Preliminary Federal Blvd BRT Station Location that is an Existing Bus Stop
- 🚏 Existing Transfer Station with Future Federal Blvd BRT Stop
- 🚊 Existing Rail Station with Future Federal Blvd BRT Stop
- Existing Rail Lines
- Planned Rapid Transit Line

Frequencies Shown
6am - 9am

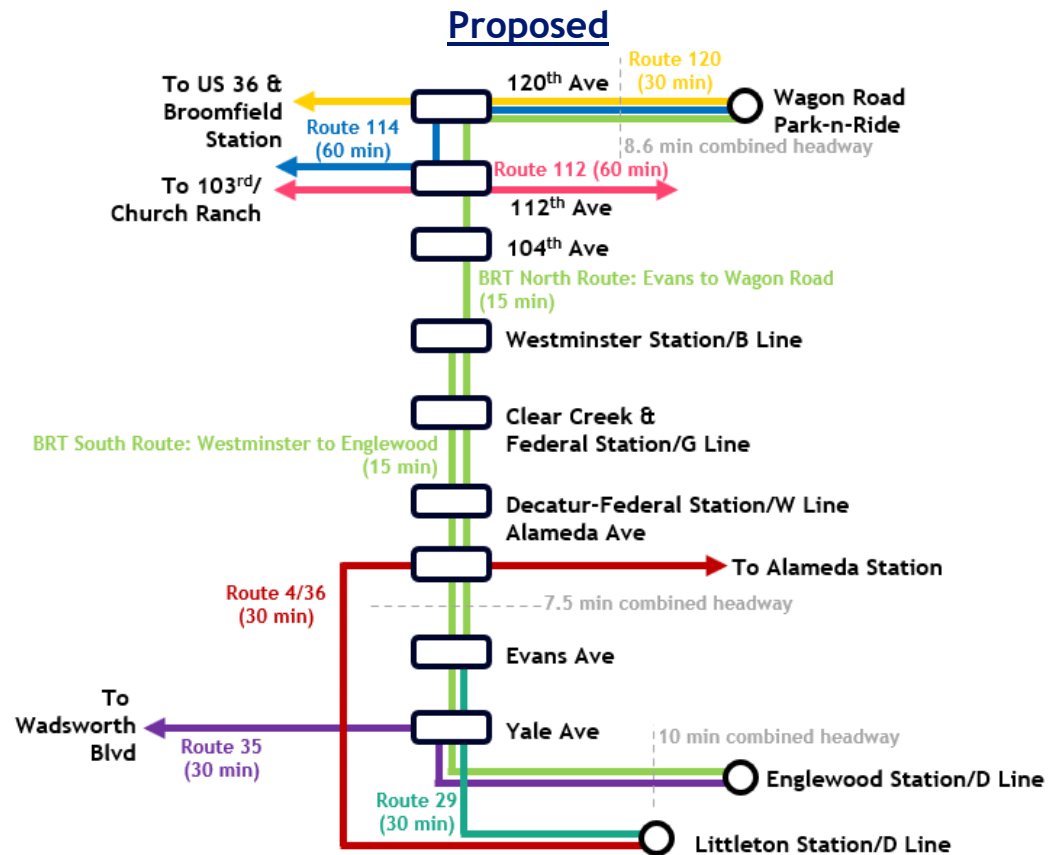
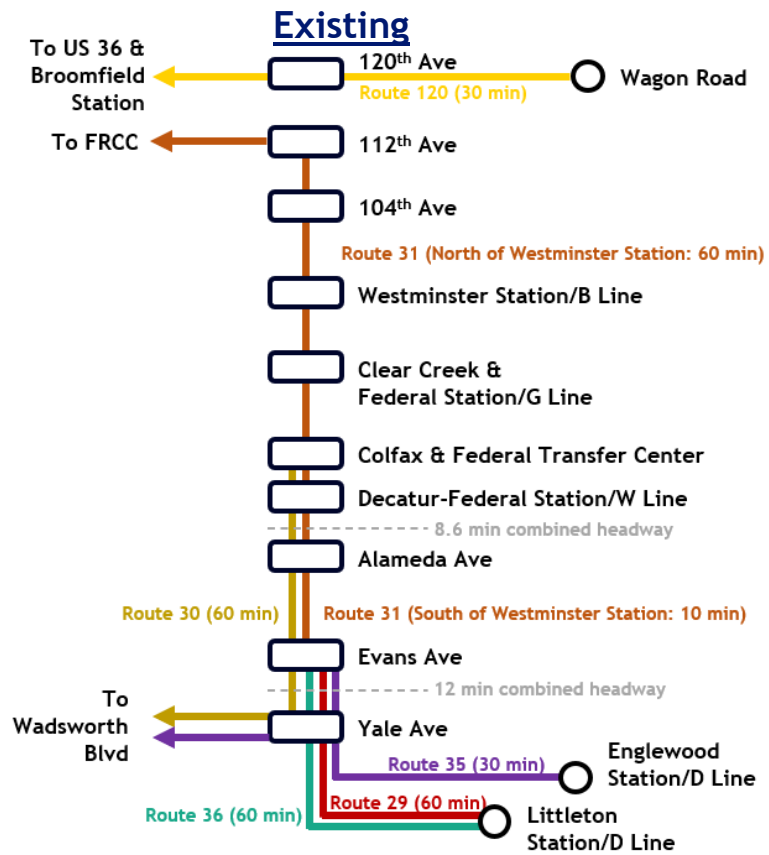


89 existing stop locations consolidated to 44 enhanced station pairs



Federal Blvd BRT

Recommended Alternative Service Modifications



Public Engagement



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- **Public Open Houses**
 - 1st round - May 2024
 - 2nd round - Spring 2025
- **Stakeholder Committee**
 - July 2024
 - Next meeting Fall 2024
- **Direct Outreach**
 - BIDs, RNOs, other community groups
 - Fall 2024 - Spring 2025
- **Pop Ups**
 - Community events and festivals





- Support Recommended Alternative configuration and service plan
- Safety concerns regarding high speeds, intersection configurations, pedestrian crossings
- Station spacing comments on locations, amenities, accessibility, connections to other routes
- Concerns about where bus lanes are not recommended
- Connectivity comments on lack of sidewalks, connections to bike paths, trails, community gathers spots, and nearby land uses





Federal Blvd BRT

Contact Information

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codot.gov/projects/studies/denvermetrobrt/federalbrt