

# E VIRGINIA/E DAKOTA AVE FROM S BROADWAY TO MARION ST PKWY

## PROJECT OVERVIEW

Denver Moves: Bicycles recommended a neighborhood bikeway on E Virginia Ave from S Cherokee St to S Marion St Pkwy. After extensive study and public feedback, DOTI updated the alignment and extents and designed a protected bike lane along Virginia Ave from S Broadway to S Lincoln St and a bike lane from S Lincoln St to S Sherman St; a neighborhood bikeway on S Sherman St from E Virginia Ave to E Dakota Ave; and a neighborhood bikeway on E Dakota Ave from S Sherman St to S Marion St Pkwy.

## PROJECT BENEFITS

### FILLS GAP IN NETWORK

Over 1/2 mi. to shared lane road markings on E 1st Ave, 1 mi. to shared lane markings on E Louisiana Ave

### CONNECTS DESTINATIONS

RTD Alameda Station, Broadway Marketplace Shopping Mall, Washington Park

### CONNECTS PROPOSED BIKEWAYS

Shared use path on S Cherokee St, bike lane on S Bannock St, protected bike lane on S Broadway, neighborhood bikeway on S Pearl St, protected bike lane on S Marion Pkwy

### LOWER STRESS CROSSINGS

Crossing improvements at S Logan St and S Downing St

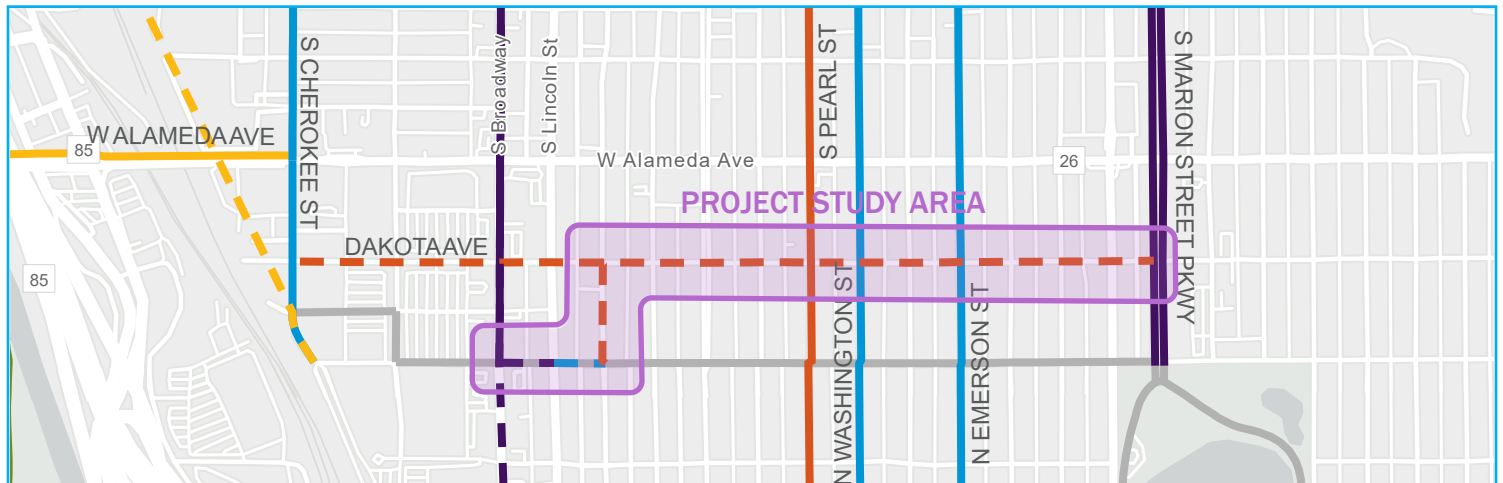
### QUALITY CONNECTIONS

Provides E/W connection through neighborhood

### LINKS BIKEWAYS/TRAILS

Bike lanes on S Marion Pkwy, S Washington St, and S Emerson St.

FIGURE 38: E DAKOTA AVE CONTEXT MAP



Recommended Facility	Existing Facility
Buffered Bike Lane	Bike Lane
Bike Lane	Protected Bike Lane
Neighborhood Bikeway	Buffered Bike Lane
Needs Further Study	Trail
Protected Bike Lane	Shared Use Sidewalk
Shared Use Path	Neighborhood Bikeway
Trail	Shared Roadway

# E VIRGINIA AVE/E DAKOTA AVE FROM S BROADWAY TO MARION ST PKWY

## ANALYSIS SUMMARY

Denver Moves: Bicycles recommended a neighborhood bikeway along E Virginia Ave from S Cherokee St to S Marion St Pkwy. DOTI solicited feedback for this bikeway alignment through a network verification survey, which revealed that the community preferred an alternative bikeway alignment along E Dakota Ave. However, analysis revealed that crossing at S Broadway and S Lincoln St along E Dakota Ave would be challenging. To provide the safest connection, DOTI designed a combined route using E Dakota Ave and E Virginia Ave. This alignment takes advantage of the existing traffic signals along Virginia Ave to cross S Lincoln St and S Broadway, while also taking advantage of the low existing speeds and volumes of Dakota Ave east of Sherman St.

Extensive corridor analysis also revealed a high instance of vehicle crashes concentrated at S Broadway, S Lincoln St, and Logan St. Additionally, analysis indicated higher speeds than typically acceptable for a neighborhood bikeway. These conditions were addressed in design to make the corridor safer for all modes of travel.

## OUTREACH SUMMARY

Community feedback for this corridor was collected through a series of online surveys, interactive input maps and public comments. The online map tool was open from March-May 2020, network verification surveys were deployed from April-May 2020, and draft concept surveys were open from July-August 2020 and received 129 responses. This feedback helped inform recommendations for improving the way people travel (by bicycle, bus, on foot and by car) on and around this corridor. The network verification survey received 179 responses.

### KEY CONCEPT FEEDBACK

Proposed designs for Community Transportation Network projects were shared for community input. Community members were asked to react to proposed designs and provide feedback. The E Virginia Ave/E Dakota Ave design received 128 comments. Overall, respondents indicated their top three safety concerns when using E Virginia Ave/E Dakota Ave were:

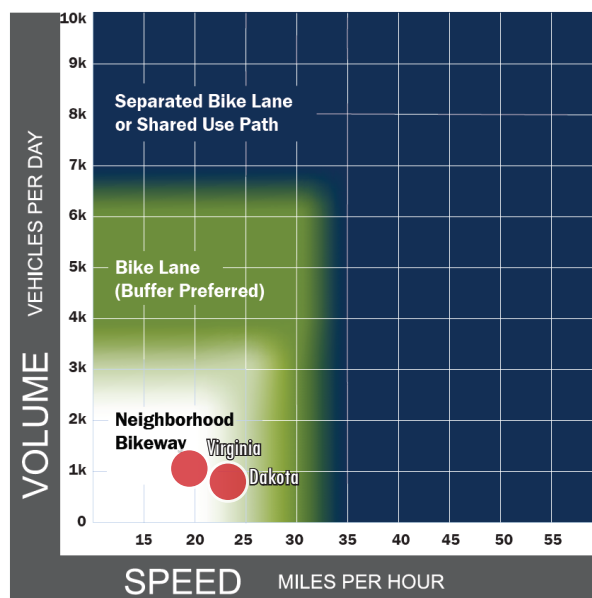
- 1 Crossing busy intersections along the street
- 2 Feeling safe/comfortable while riding a bike along the street
- 3 Vehicle speeding

### KEY DRAFT DESIGN FEEDBACK

Proposed designs for Community Transportation Network projects were shared for community input during May 2022, including designs for the E Virginia Ave & E Dakota Ave bikeway. Community members were asked to react to proposed designs and provide feedback. The E Virginia Ave & E Dakota Ave design received 65 comments from 17 respondents. Major themes from public feedback on the proposed designs included:

- 1 Support for RRFB installation on Dakota Ave at S Logan St & Downing St
- 2 Support for visible wayfinding signage directing bicyclists to use S Sherman St
- 3 Mixed support and concern regarding the S Sherman St diverter installation

FIGURE 39: E DAKOTA AVE BIKEWAY FACILITY SELECTION CHART



### ANALYSIS COMPLETED:

- ✓ Crash Analysis
- ✗ Parking Analysis
- ✓ Traffic Counts
- ✓ Cross-Section Options
- ✓ Lane Reduction Analysis
- ✓ Parking Removal Analysis
- ✓ Intersection Analysis
- ✓ Speed Reduction Analysis
- ✓ Diversion Analysis

### DELIVERABLES COMPLETED:

- ✓ Existing Conditions Analysis
- ✓ Alternatives Analysis
- ✓ Concept Design
- ✓ Final Design

### OUTREACH COMPLETED:

- ✓ Network Verification Survey
- ✓ Concept Survey
- ✓ Draft Design Survey
- ✓ Office Hours
- ✓ 6 Network-Wide Public Meetings (2020 to 2022)
- ✓ 7 Network-Wide Stakeholder Meetings (2020 to 2022)
- ✗ One-on-One Stakeholder Engagement
- ✗ Project-Specific Community Meetings

# E VIRGINIA AVE/E DAKOTA AVE FROM S BROADWAY TO MARION ST PKWY

TABLE 14: E DAKOTA AVE PUBLIC FEEDBACK SUMMARY

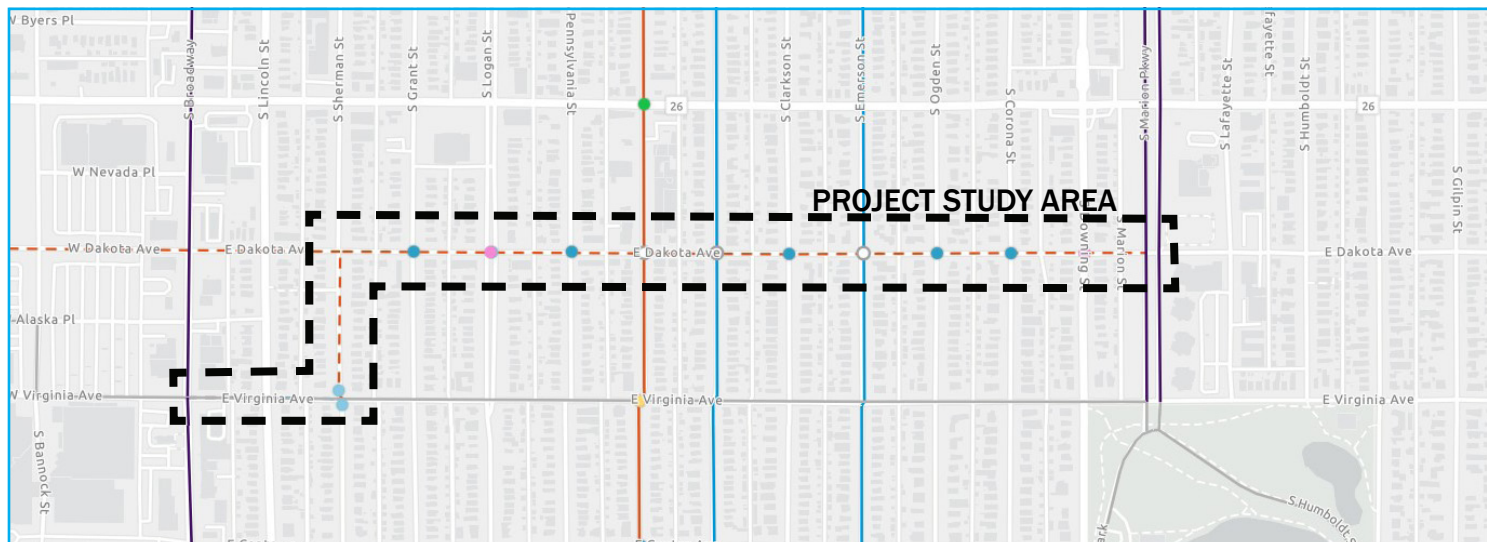
What We Heard	Incorporated into Project
Concern about crashes at S Broadway, S Lincoln St, and Logan St Intersections	Intersection improvements will increase safety for all users at Logan St, S Broadway, and S Lincoln St.
Logan St is difficult to cross for people walking and biking	Curb extensions, crosswalks, pedestrian refuge islands, and rectangular rapid flashing beacons will make it safer for people crossing Logan St.
Motorist speeding along S Lincoln St	Safety improvements for S Lincoln St are being considered by the Lincoln Transit Enhancements and Safety Improvements Project.
Eastbound left turn from Virginia to Sherman can be challenging for cyclists	Pavement markings and forced turns will make it easier and safer for bicyclists to turn left onto Sherman St.
Downing St is difficult to cross for people walking and biking	Curb extensions, crosswalks, and rectangular rapid flashing beacons will make it safer for people crossing Downing St.

## SUMMARY OF FINAL RECOMMENDATIONS

The final design includes a mixture of elements to slow driver speeds, improve safety and comfort for pedestrians and people on bikes traveling along the corridor, and facilitate safer crossings. Specific elements include:

- A traffic diverter at Virginia Ave on Sherman St to force eastbound and westbound right turns.
- An RRFB at Virginia Ave and Logan St to alert motorists to people crossing Logan St.
- Neighborhood traffic circles along the corridor to reduce speeds.
- Curb extensions at several locations along the corridor to reduce crossing distances for bikes and peds and improve visibility.

FIGURE 40: E VIRGINIA AVE/E DAKOTA AVE TRAFFIC CALMING MAP



Traffic Calming Elements	Existing Denver Bicycle Facilities	Recommended Denver Bicycle Facilities
● Traffic Circle	— Protected Bike Lane	- - - Protected Bike Lane
● Diverter	— Neighborhood Bikeway	- - - Neighborhood Bikeway
● Pedestrian Refuge	— Bike Lane	- - - Bike Lane
● Speed Cushion	— Buffered Bike Lane	- - - Buffered Bike Lane
● Chicane	— Shared Roadway	- - - Trail
● Pinchpoint	— Trail	- - - Shared Use Path
● Curb Extension Only	— Shared Use Path	- - - Needs Further Study
● RRFB		
● Bike Box		