

# CITY of ALBUQUERQUE

## TWENTY SIXTH COUNCIL

COUNCIL BILL NO. R-24-94 ENACTMENT NO. \_\_\_\_\_

SPONSORED BY: Joaquín Baca, by request

1 RESOLUTION

2 AMENDING § 1-16-1 OF THE CITY OF ALBUQUERQUE CODE OF  
3 RESOLUTIONS TO ADOPT A CITYWIDE RANK 2 BIKEWAY AND TRAIL  
4 FACILITIES PLAN (2024) AND REPEAL THE BIKEWAYS & TRAILS FACILITY  
5 PLAN (2015).

6 WHEREAS, the City Council, the governing body of the City of  
7 Albuquerque, has the authority to adopt facility plans to promote the health,  
8 safety, and general welfare of the residents of Albuquerque, pursuant to NMSA  
9 1978, Sections 3-19-1 et. seq., and by its home rule powers; and

10 WHEREAS, people use both bikeways and trails for a variety of activities,  
11 including recreation, commuting, exercise, and utilitarian travel; and

12 WHEREAS, the City Council adopted the 2015 Bikeways & Trails Facility  
13 Plan on May 18, 2015 via R-14-142 (Enactment R-2015-045), which replaced the  
14 1993 Trails & Bikeways Facility Plan and the Comprehensive On-Street Bicycle  
15 Plan (2000); and

16 WHEREAS, the 2024 *Bikeway and Trail Facilities Plan* focuses on projects  
17 that are plausible in the near term—pending available funding and staff  
18 resources—and provides a roadmap for the City to build out a dense network  
19 of high-comfort facilities that connects to everyday destinations; and

20 WHEREAS, the 2024 *Bikeway and Trail Facilities Plan* creates useful and  
21 comfortable connections and encourages more people to choose bicycling as  
22 a mode of transportation, creating a virtuous cycle where drivers become  
23 more cognizant of bicyclists and safety increases; and

24 WHEREAS, the 2024 *Bikeway and Trail Facilities Plan* is an opportunity to  
25 create consistency and alignment with these recently adopted plans and  
26 policies and ensure the *Bikeway and Trail Facilities Plan* serves as a

[Bracketed/Underscored Material] - New  
[Bracketed/Strikethrough Material] - Deletion

1 mechanism to implement goals and policies identified in the  
2 Albuquerque/Bernalillo County Comprehensive Plan; and

3 WHEREAS, the *2024 Bikeway and Trail Facilities Plan* is consistent with the  
4 applicable goals and policies of the *Albuquerque/Bernalillo County*  
5 *Comprehensive Plan, Complete Streets Ordinance, Vision Zero Action Plan*  
6 *and Year in Review, Climate Action Plan*, and other regional planning  
7 documents and programs; and

8 WHEREAS, on July 18, 2024, the Environmental Planning Commission  
9 (EPC), in its advisory role, voted to forward a Recommendation of Approval to  
10 City Council for Project # 2024-010493, Case # RZ-2024-00032, a request for an  
11 Adoption of a Rank 2 *2024 Bikeway and Trail Facilities Plan*, with Findings #1-  
12 17, which include an analysis of applicable goals and policies from the Comp  
13 Plan, and Recommended Conditions of Approval #1-6 in the Official Notice of  
14 Decision.

15 BE IT RESOLVED BY THE COUNCIL, THE GOVERNING BODY OF THE CITY OF  
16 ALBUQUERQUE:

17 SECTION 1. Section 1-16-1 of the Albuquerque Code of Resolutions, *The*  
18 *2015 Bikeways & Trails Facility Plan* is repealed in its entirety.

19 SECTION 2. In order to implement the policies of the  
20 *Albuquerque/Bernalillo County Comprehensive Plan*, applicable City Rank 2  
21 and Rank 3 Plans, and the Mid-Region Council of Government's *Metropolitan*  
22 *Transportation Plan*, the *2024 Bikeway & Trail Facilities Plan*, attached hereto  
23 as Exhibit A, is hereby adopted. A new Section 1-16-1 of the Albuquerque  
24 Code of Resolutions is adopted as follows:

25 § 1-16-1 BIKEWAY & TRAIL FACILITIES PLAN

26 (A) The City Council adopts the EPC's Findings #1-17 and Conditions of Approval  
27 #1-6 related to the *2024 Bikeway & Trail Facilities Plan*.

28 (B) The City Council adopts the following additional findings:

- 29 (1) The Rank 2 *2024 Bikeway and Trail Facilities Plan* updates,  
30 consolidates, and replaces the *Bikeways & Trails Facility Plan* (2015).  
31 Rank 2 Facility Plans describe existing facilities, policies,  
32 recommendations, and proposed projects.



- 1 (2) The scope of the *2024 Bikeway and Trail Facilities Plan* is citywide. It  
2 also shows trails within Bernalillo County's jurisdiction to  
3 demonstrate regional connectivity that are not included as proposed  
4 City projects.
- 5 (3) The purpose of the plan is to ensure a well-connected, enjoyable,  
6 and safe non-motorized transportation and recreation system  
7 throughout the metropolitan area. Updating the Plan is a reasonable  
8 exercise in local self-government consistent with the City Charter.
- 9 (4) The *Albuquerque/Bernalillo County Comprehensive Plan*, the  
10 *Integrated Development Ordinance*, the *Complete Streets Ordinance*,  
11 *Vision Zero Action Plan and Year in Review*, and *Climate Action Plan*  
12 are incorporated herein by reference and made part of the record for  
13 all purposes.
- 14 (5) The plan is generally consistent with the key themes of the  
15 *Connections: 2040 Metropolitan Transportation Plan (MTP)* through  
16 its multi-modal vision, policies, and proposed facilities for  
17 pedestrians and cyclists throughout the city. The proposed facility  
18 map is consistent with the current Long Range Bicycle System  
19 (LRBS) map and will provide updates to the LRBS map when it is  
20 amended for the Transitions 2045 MTP.
- 21 (6) Key City Departments, including Municipal Development, Parks &  
22 Recreation, and Planning, coordinated as part of this facility  
23 planning effort.
- 24 (7) There is general support among the reviewing agencies and  
25 members of the public that the City should adopt the proposed  
26 Bikeway and Trail Facilities Plan.

27 **SECTION 3. COMPILATION.** SECTIONS 1 and 2 of this Resolution amends,  
28 is incorporated in, and is to be compiled as part of the City of Albuquerque  
29 Code of Resolutions, § 1-16-1.

30 **SECTION 5. SEVERABILITY CLAUSE.** If any section paragraph, sentence,  
31 clause, word, or phrase of this resolution is for any reason held to be invalid or  
32 unenforceable by any court of competent jurisdiction, such decision shall not  
33 affect the validity of the remaining provisions of this resolution. The Council

1 hereby declares that it would have passed this resolution and each section,  
2 paragraph, sentence, clause, word or phrase thereof irrespective of any  
3 provisions being declared unconstitutional or otherwise invalid.

4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33

[Bracketed/Underscored Material] - New  
[Bracketed/Strikethrough Material] - Deletion



**CITY OF ALBUQUERQUE**  
Albuquerque, New Mexico  
Office of the Mayor

Mayor Timothy M. Keller

**INTER-OFFICE MEMORANDUM**

August 16, 2024

**TO:** Dan Lewis, President, City Council

**FROM:** Timothy M. Keller, Mayor



**SUBJECT:** Project# PR-2024-010493 RZ-2024-00032 Bikeway and Trail Facilities Plan

Staff Planners: Robert Messenger, Senior Planner and Catherine Heyne, Planner

**Request**

The request is for City Council to make a decision on the EPC's recommendation to approve the proposed 2024 Bikeway & Trail Facilities Plan (BTFP; the "2024 BTFP"). The 2024 BTFP is a citywide, Rank 2 Facility Plan that guides the selection of bike-related policies and projects in the City of Albuquerque.

This amendment facilitates the adoption of the 2024 BTFP. The 2024 BTFP would guide the direction for the City's infrastructure investments and is a means to implement the Comprehensive Goals and Policies specifically for bikeway and trail facilities.

**Environmental Planning Commission (EPC) Role**

The EPC is the Review and Recommending Body for the Adoption or Amendment of a Facility Plan pursuant to IDO §14-16-6-7(B). Consequently, the EPC held a public hearing on the application for the 2024 BTFP and made a recommendation to the City Council on the application. The City Council is the final decision-making body, whose decision cannot be appealed. This case is a legislative matter.

The 2024 BTFP was submitted on June 6, 2024, reviewed by the EPC on July 18<sup>th</sup>, 2024, and sent with a recommendation of Approval to the City Council. The City Council is the final decision-making body for this request.

The BTFP was last updated in 2015 (prior to the adoption of the IDO in 2018), and approved by City Council May 18, 2015 (R-14-42). The 2024 BTFP is the first revision to the BTFP using IDO procedures. Because the application was submitted prior to the adoption of the 2024 IDO updates, first effective August 3, 2024, both the EPC and the City Council must follow the 2023 IDO procedures.

## Neighborhood/Public

All neighborhood organizations recognized by the City Office of Neighborhood Coordination are affected by this request. Neighborhood Organization representatives that do not have email addresses were notified by mail as required. A public information meeting was held on May 14, 2024 via Zoom to answer questions and provide awareness of the public draft review process. Public comment on the draft plan was open from April 22 through May 31, 2024.

Members of the public spoke during the EPC hearing and expressed overall support for the 2024 BTFP. Although some expressed concerns about e-bike use in Major Public Open Space (MPOS) areas and on multi-use trails, staff noted that these regulations are being proposed through a separate process and not the BTFP itself. Parks and Recreation has submitted a proposed ordinance, [O-24-14](#) ("E-Bikes, And Other Personal Motorized Modes Of Transportation") to regulate e-bike use, which is governed under the City's traffic code (Chapter 8) and Open Space lands and regional preserves (Chapter 5) of the Code of Ordinances.

## Conclusion

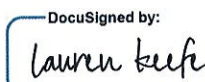
At its July 18, 2024 regular hearing, the EPC voted to forward a recommendation of approval to the City Council regarding PR-2024-010493 RZ-2024-00032 Bikeway and Trail Facilities, a Rank 2 Facility Plan. The EPC forwarded six (6) Conditions for recommendation of approval, and all 6 have been met as of this writing.

The full record of the hearing is being transmitted via this memo.


Approved:

Approved as to Legal Form:

 9/13/24  
Dr. Samantha Sengel Date  
Chief Administrative Officer (CAO)

DocuSigned by:  
 9/11/2024 | 9:48 AM MDT  
1A21D88D82C74EE...  
Lauren Keefe Date  
City Attorney

Recommended:

DocuSigned by:  
 9/10/2024 | 4:32 PM MDT  
847D88B8EF4C443...  
Alan Varela Date  
Planning Director

**Cover Analysis**  
Project # 2024-010493/ RZ-2024-00032

**1. What is it?**

The request is for an Amendment of Facility Plan – EPC to the 2015 Bikeways and Trails Facilities Plan (2015 BTFP). The amendment would facilitate the adoption of the 2024 Bikeway and Trail Facilities Plan (2024 BTFP), which is a Rank 2 Facility Plan that provides direction for the City’s infrastructure investments. It is also a mechanism for implementing the Comprehensive Plan Goals and Policies – specifically for bikeways and trail facilities within the City.

**2. What will this piece of legislation do?**

This legislation will adopt the 2024 Bikeway & Trail Facilities Plan, which updates and supersedes the 2015 Bikeways & Trails Facilities Plan. Updating the 2024 BTFP should create consistency and alignment between recently adopted plans and policies at all levels of government, including the Albuquerque/Bernalillo County Comprehensive Plan. It is also meant to create an equitable distribution of bikeways across the city.

**3. Why is this project needed?**

The purpose of the 2024 BTFP update is to follow emerging best practices in the planning and implementation of an interconnected, citywide bikeway and trail system with a focus on on-street bikeways, paved multi-use trails, and crossings where bikeways intersect major roads.

**4. How much will it cost and what is the funding source?**

No governmental cost is associated with the request.

**5. Is there a revenue source associated with this Plan? If so, what level of income is projected?**

No. N/A

**6. What will happen if the project is not approved?**

If the 2024 Bikeway and Trail Facilities Plan is not approved, the 2015 Bikeways & Trails Facility Plan would remain in place. That means that means many newly adopted City policies such as Vision Zero, Complete Streets, etc., will not be considered and many of the proposed projects, policies, goals, recommendations are out of date or already completed.

**7. Is this service already provided by another entity?**

No.

**FISCAL IMPACT ANALYSIS**

TITLE: 2024 Bikeway and Trail Facilities Plan

R: FUND:110

DEPT: 4926000

- ☒ No measurable fiscal impact is anticipated, i.e., no impact on fund balance over and above existing appropriations.
- ☐ (If Applicable) The estimated fiscal impact (defined as impact over and above existing appropriations) of this legislation is as follows:

	2025	Fiscal Years 2026	2027	Total
Base Salary/Wages				-
Fringe Benefits at				-
Subtotal Personnel	-	-	-	-
Operating Expenses		-		-
Property		-	-	-
Indirect Costs	-	-	-	-
Total Expenses	\$ -	\$ -	\$ -	\$ -
<hr/>				
[X] Estimated revenues not affected				
[ ] Estimated revenue impact				
Revenue from program				0
Amount of Grant		-	-	
City Cash Match				
City Inkind Match				
City IDOH	-	-	-	-
Total Revenue	\$ -	\$ -	\$ -	\$ -

These estimates do not include any adjustment for inflation.

\* Range if not easily quantifiable.

Number of Positions created

**COMMENTS:****COMMENTS ON NON-MONETARY IMPACTS TO COMMUNITY/CITY GOVERNMENT:**

PREPARED BY:

DocuSigned by:  
Debbie Dombrowski 10/20/2024 | 4:27 PM MDT

FISCAL ANALYST

APPROVED:

DocuSigned by:  
Alan Smith 10/20/2024 | 4:32 PM MDT

DIRECTOR (date)

REVIEWED BY:

DocuSigned by:  
Evelyn Torres 10/20/2024 | 4:34 PM MDT

EXECUTIVE BUDGET ANALYST

DocuSigned by:

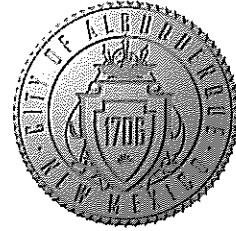
Brunnera Davis 10/20/2024 | 5:11 PM MDT

BUDGET OFFICER (date)

Signed by:

Christina Brouwer 10/20/2024 | 9:28 AM MDT

CITY ECONOMIST



PLANNING DEPARTMENT  
URBAN DESIGN & DEVELOPMENT DIVISION  
600 2nd Street NW, 3rd Floor, Albuquerque, NM 87102  
P.O. Box 1293, Albuquerque, NM 87103  
Office (505) 924-3860 Fax (505) 924-3339

## OFFICIAL NOTIFICATION OF DECISION

July 18, 2024

City of Albuquerque Department  
of Municipal Development  
400 Marquette NW, Suite 303  
Albuquerque, NM 87102

**Project # PR-2024-010493**  
**RZ-2024-00032** – Amendment of Facility Plan

Valerie Hermanson, Public Works Strategic Program Manager, representative of the City of Albuquerque Department of Municipal Development, requests an Amendment of the City of Albuquerque Bikeway and Trail Facilities Plan (BTFP). City-wide.

Staff Planners: Robert Messenger and Catherine Heyne

On July 18, 2024, the Environmental Planning Commission (EPC) voted to forward a recommendation of APPROVAL to the City Council for PR-2024-010493 RZ-2024-00032 – Amendment of Facility Plan based on the following recommended Findings and Subject to the recommended conditions of approval.

### RECOMMENDED FINDINGS – RZ-2024-00032 –Amendment of Facility Plan

1. The request is for an Amendment to the 2015 Bikeways and Trails Facilities Plan (BTFP). The BTFP is a Rank 2 Facility Plan that provides direction for the City's infrastructure investments and is a mechanism for implementing the Comprehensive Plan Goals and Policies – specifically for bikeway and trail facilities within the City.
2. The 2024 BTFP amends and updates the 2015 BTFP with new or improved bike facilities added to the existing citywide bike system to reflect emerging best practices in bicycle network planning and bikeway design.
3. The request is for a citywide plan that includes all area Uses and Zoning.
4. The major changes in the 2024 plan from the 2015 Plan are that the 2024 BTFP:
  - Supports the implementation of recently-adopted City ordinances and plans such as the Complete Streets Ordinance, Vision Zero Action Plan, and the Climate Action Plan.
  - Reviews the adopted policies, programs, and criteria for the selection of on- and off-street bike facility improvements with an emphasis on crossings with major roads.

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 2 of 18

- Addresses equity in the distribution of safer and better biking connections throughout the City and updates the prioritization process to center the needs in areas where bike facilities have traditionally been under-funded.
  - Reflects the City’s commitment to emphasize an “all ages, abilities, and backgrounds” approach in providing bike facilities throughout the City.
  - Prioritizes safety improvements in areas with high levels of traffic violence especially at crossings where on-street bikeways and trails intersect major roads.
  - Adds a Bicycle and Trail Crossings Guide (Appendix J) for the selection of appropriate crossing treatments based on the bike/trail facility, the road facility, and location context (e.g., urban, suburban, or rural).
  - Includes a Bike Boulevard Toolkit (Appendix E) to reflect the value of bike boulevards as part of an implementable, on-street bike network.
  - Provides policy recommendations for e-bikes on paved trails and emerging best practices in e-bike rebate programs to reflect the growth in e-bike mobility.
  - Contains descriptions and summary tables for all proposed projects, including timeframes and cost estimates.
  - Updates the document name from Bikeways & Trails Facilities Plan to Bikeway & Trail Facilities Plan.
5. Bike & trail facilities proposed in the 2024 Plan recommendations are intended to be integrated into the regional Long Range Bikeway System that is maintained by the Mid-Region Council of Governments (MRCOG) with a recommendation to update the Bikeway and Trail Facilities Plan at regular intervals, such as every five years.
6. The Albuquerque/Bernalillo County Comprehensive Plan and the City of Albuquerque Integrated Development Ordinance (IDO), and the BTFP Rank 2 Facility Plan are incorporated herein by reference and made part of the record for all purposes.
7. The request is consistent with the following Comprehensive Plan Goal and Policy regarding Development Patterns from Chapter 5- Land Use:
- A. GOAL 5.1 CENTERS & CORRIDORS: Grow as a community of strong Centers connected by a multi-modal network of Corridors.

The facility plan amendment could help the City grow as a community that connects strong Centers through a multi-modal network of Corridors that include on- and off-street bicycling facilities. The 2024 BTFP strengthens the ability of both Centers and Corridors to serve the needs of bicyclists because it emphasizes an “all ages and abilities” approach to make biking a more convenient option for those who bike for transportation purposes as well as recreation. By emphasizing low-stress facilities, such as bike boulevards that parallel busier roads (e.g., Multi-Modal Corridors), biking becomes a viable option for new bicyclists and those hesitant to ride with traffic or in bike lanes along busy roads

As part of the prioritization process for proposed bike projects, the request strengthens Centers by giving bike facilities that connect to Centers higher points than those that do not connect to Centers. The request is consistent with Goal 5.1 Centers & Corridors.



OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 3 of 18

- B. **POLICY 5.1.11 MULTI-MODAL CORRIDORS:** Design safe, Multi-Modal Corridors that balance the competing needs of multiple modes of travel and become more mixed-use and pedestrian-oriented over time.

The 2024 BTFP supports the design of safe Multi-Modal Corridors that balance the needs of multiple modes of travel. These Corridors are designed to become more mixed-use and pedestrian-oriented over time. Development should be encouraged to include a more mixed use, pedestrian-oriented environment with nearby parallel streets dedicated to serve bicycle travel. Because the 2024 BTFP aims to make biking safer for all users, it avoids placing bike facilities such as bike lanes or sidepaths in places where such facilities would be unsafe for the majority of bicyclists. In their present state, Multi-Modal Corridors are unsafe locations for bike facilities since they concentrate on serving fast-moving and heavy volumes of motorized traffic in locations with frequent driveways for commercial parking lots.

8. The request is consistent with the following Comprehensive Plan Goals and Policies regarding Development Patterns from Chapter 6: Transportation:

- A. **GOAL 6.1 LAND USE-Transportation Integration:** Plan, develop, operate, and maintain a transportation system to support the planned character of existing and future land uses.

The 2024 BTFP amendment would facilitate the creation of a bike network within the context of a complete transportation system to support the planned character of existing and future land uses as designated by Centers and Corridors in the Comprehensive Plan. A key feature of the 2024 BTFP is an emphasis on improved bikeway and trail crossings, specifically in locations where pedestrian and bike facility crossings should be prioritized to support the planned character of Centers and street elements based on Corridor designations. Additionally, the network attempts to connect people as directly as possible to major community destinations and other low stress bikeways, including multi-use trails. Examples of integration of existing and future transport systems are highlighted in Appendix G: Project Profiles of the 2024 BTFP.

- B. **GOAL 6.2 MULTI-MODAL SYSTEM:** Encourage walking, biking, and transit, especially at peak-hour commuting times, to enhance access and mobility for people of all ages and abilities.

The 2024 BTFP encourages people of all ages and abilities to choose walking, biking, and transit through improvements to bike and trail facilities as well as intersection improvements of the crossings of these facilities with roads, both of which enhance access and mobility. The 2024 Plan proposes to improve biking and walking comfort and safety by providing barriers between automobile traffic and those using alternative forms of transportation. This can include adding protected hybrid beacons (PHBs) at road crossings. Buffers and other bike facility improvements can also enhance comfort and access to people of all ages, which can further inspire more people to choose transit since transit trips typically begin with either biking or walking to reach transit stops. With safer bike and trail facilities and intersections, commuters can be more motivated to walk, bike and/or use transit, especially during peak hours. Lastly, the 2024 BTFP proposes policies and programs to encourage mode share shifts, especially during peak-hour commuting times.

- C. **POLICY 6.2.2 Incorporate Complete Streets concepts and policies** into the development, retrofit, and rehabilitation of all transportation infrastructure at all phases, including planning, scoping, design, implementation, and performance monitoring.

The 2024 BTFP incorporates Complete Streets concepts and policies into the development, retrofit and rehabilitation of all phases of transportation infrastructure. It leverages the City's

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 4 of 18

Annual Complete Streets Maintenance program identify opportunities to quickly and cost effectively create on-street bikeways such as a) bike routes through signage and traffic calming, b) restriping bike lanes and/or buffered bike lanes, and/or c) improve substandard existing bike lanes within the curb lines of paved roads. One of the 2024 BTFP recommendations is to enhance the Annual Complete Streets Maintenance Program to include advanced planning for resurfacing needs and inclusive selection criteria for project locations.

- D. **POLICY 6.2.5 BICYCLE NETWORK:** Promote an areawide bicycle and trail network for transportation and recreation that emphasizes connections among Centers and safe crossings at intersections.

The 2024 BTFP promotes an areawide bicycle and trail network for transportation and recreational purposes that emphasizes connections among Centers and provides an increased focus on safe intersection crossings. Part of the scoring to evaluate potential bike facilities that was done for the 2024 BTFP update was to evaluate how well bikeways connect to Centers and other community facilities. Those that provide better connectivity and access more Centers and community facilities are scored higher than those that do not. The 2024 BTFP emphasizes the importance of safe intersection crossings by providing a Bicycle and Trail Crossings Guide, which was not included in previous plans (for more information, see Appendix J in the 2024 BTFP).

- E. **GOAL 6.3 SAFETY:** Plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users.

The 2024 BTFP is a guide to plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users. Although the 2024 BTFP intent is to improve conditions for bike travel, bike facility improvements also support safe access for modes such as walking and transit use. This is because the 2024 BTFP incorporates Vision Zero goals and policies to improve safety, especially for such roadway users as people bicycling or walking.

The 2024 BTFP improves safety for cyclists through street design. The plan recommends bike facilities such as protected bike lanes that follow national best practices that are proven to improve safety.

- F. **GOAL 6.4 PUBLIC HEALTH:** Promote individual and community health through active transportation, noise mitigation, and air quality protections.

The 2024 BTFP promotes individual and community health through promoting active transportation via biking. As the bike mode share increases and motor vehicle mode share use decreases, there will be less noise and air pollution caused by motor vehicles burning fossil fuels.

- G. **POLICY 6.4.1 ACTIVE TRANSPORTATION:** Promote options and mobility for walking, biking, and other nonmotorized travel.

The 2024 BTFP promotes options and mobility for walking, biking, and other non-motorized travel. The plan recommends safety improvements, especially at intersections of multi-modal trails at major roads, which can encourage more walking trips and other nonmotorized travel, as well as better access for persons using active transportation to reach transit stops because these recommendations improve access to Centers and other key community destinations. The 2024 BTFP plan has several recommendations to encourage biking as a form of active transportation, such as the Esperanza Bicycle Safety Education Center and events like Bike to Wherever Day.

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 5 of 18

- H. GOAL 6.5 EQUITY: Expand mobility by providing safe and connected networks for non-auto travel and public transit for low-income and vulnerable populations.

One of the main goals of the 2024 BTFP is to expand mobility for low-income and vulnerable populations by providing safer and better networks for bike and other non-automotive travel modes. Because low-income and vulnerable populations are less likely to own a car (or be able to drive) and more likely to use public transit, bike network improvements in High Fatal and Injury Network (HFIN) high crash areas and vulnerable communities also expand transit mobility. This is because all transit trips begin and end with a non-motorized mode such as biking or walking. In recognition of the disproportionate share of traffic violence experienced in low-income and vulnerable communities, equity was given the highest single evaluation criteria to and weighted at 20% (see Chapter 6, Table 18).

- I. POLICY 6.5.1 EQUITABLE TRANSPORTATION SYSTEMS: Consider the needs of people of all ages and abilities in the design, construction, and operation of transportation systems.

The 2024 BTFP request makes an “all ages and abilities” approach the main theme in the design, construction, and operation of bike transportation systems. This importance is reflected in the first sentence of the Vision Statement:

Albuquerque is a city that embraces bicycling by implementing convenient on-street bikeways and paved multi-use trail facilities that enhance safety and appeal to people of all ages, abilities, and backgrounds (underlined for emphasis).

The first Goal in the 2024 BTFP is to “Increase access to on-street bikeways and multi-use trails for all people in Albuquerque.” One means of increasing access is to prioritize bike infrastructure improvements in areas previously lacking in such facilities or in areas with high social vulnerability.

- J. GOAL 6.6 ECONOMY: Invest in a transportation system that stimulates and supports job creation and business development and improves the movement of people, goods, and services.

Consistent to the original 2015 BTFP, the bikeway and trail network can continue to be leveraged as an integral part of economic development that helps stimulate and support job creation and business development along routes made more accessible to cycling. Also, providing quality transportation infrastructure citywide is a proven approach to improving access to jobs and services, especially for those without personal vehicle transport.

This request also invests in a transportation system that improves the movement of people, goods, and services by applying appropriate contexts of bikeway facility types derived from the Federal Highway Administration (FHWA) Bikeway Selection Guide and the National Association of City Transportation Officials (NACTO) Urban Bikeway Design Guide and in support of the City’s Vision Zero goals by implementing high-quality facilities that promote user safety and comfort. Additional design guidance and standards are taken from the City of Albuquerque Development Process Manual (DPM) with the 2024 BTFP also recommending revisions to the DPM based on emerging national best practices. The resulting 2024 BTFP suggestions for individual bikeway and trail improvement projects reflect the bikeway infrastructure needed to achieve low-stress conditions for people biking citywide.

- K. GOAL 6.7 SYSTEM EFFECTIVENESS: Implement and maintain an effective and efficient transportation system in a coordinated and cost-effective manner.

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 6 of 18

This request implements and maintains an effective and efficient bicycle and trailway transportation system in a coordinated and cost-effective manner. Like most cities, the City of Albuquerque is constrained by resource availability that necessitates prioritizing improvements and implementing priority projects. This 2024 BTFP describes the potential means of implementing projects, identifies complementary policy and programmatic actions, and describes potential funding sources for the recommendations that were derived through a data-driven prioritization process. This process considered evaluation criteria that address six key issues (i.e., safety, equity, access, network improvements, level of use, and community input). Identifying these categories for each proposed facility creates an opportunity to better coordinate and implement recommended projects more cost-effectively.

Additionally, the 2024 BTFP coordinates with existing City plans and programs (e.g., Annual Complete Streets Maintenance, Vision Zero, Climate Action Plan) to help further opportunities to quickly build new or improve existing bike infrastructure. Design and development of the 2024 BTFP updates were made with input from city, county, regional, and state level transportation partner agencies and associated programs and documents. These entities helped assist with the bikeway and trail transportation system update for the City of Albuquerque and the region.

Conditions for people biking through the Village of Los Ranchos and unincorporated portions of Bernalillo County between Rio Bravo Blvd and Tramway Blvd outside of the City of Albuquerque jurisdiction were also evaluated for the purposes of developing a better coordinated, efficient, and well-connected network. The overall 2024 BTFP acknowledges the real constraints related to staffing capacity and the financial resources available for implementation, and the approach emphasizes projects with lower costs combined with higher impacts.

- L. GOAL 6.8 CONTEXT: Provide transportation investments that are responsive to context and natural setting.

This request provides transportation investments that are responsive to both context and natural setting (e.g., see Chapter 4: Facility Types: Definitions and Considerations). The project team used Federal Highway Administration's (FHWA's) Bikeway Selection Guide and the National Association of City Transportation Officials (NACTO) Designing Bikeways for All Ages and Abilities guidelines to analyze and then recommend the appropriate bicycling facility type for roadway setting and context. This includes looking at bikeway context, traffic speeds, design standards, facility types, and other factors—such as natural setting, rights-of-way—to complement the existing network to plan low-stress bikeways.

In keeping with the intent of Multi-Modal Corridors, the 2024 BTFP recognizes that “...nearby parallel streets will serve bicycle travel” as noted on page 5-17 of the Comp Plan (2017). For example, one of the highest-priority, near term bike project is the Claremont Avenue Bike Boulevard. This route can serve as an alternative to the busy Menaul Boulevard, or a “network spine” because of its length, low vehicle speeds and traffic volumes, existing traffic-calming features, and connectivity to Centers.

- 9. The request is consistent with the following Comprehensive Plan POLICY 7.6.2 TRANSPORTATION INFRASTRUCTURE from Chapter 7: Urban Design: Match infrastructure capacity, design, and maintenance to the development context, expected land use intensities of abutting development, and all travel modes:

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 7 of 18

The 2024 BTFP matches infrastructure capacity, design, and maintenance to the development context, expected land use intensities of abutting development, and all travel modes by considering roadway capacity, design, maintenance, and land use when identifying the appropriate bikeway facility type for a roadway. The roadway right-of-way and width, traffic volumes and speeds, traffic volume thresholds, and existing or expected land uses were additional metrics considered as new and enhanced bikeways were proposed, or when considering when a road diet would be appropriate in the implementation of a bikeway.

10. The request is consistent with Comprehensive Plan GOAL 10.2 PARKS from Chapter 10: Parks & Open Space: Provide opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents:

This request provides opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents by proposing a connected network of low-stress, high-comfort on- and off-street bikeway options for people of all ages, abilities, and backgrounds for transportation and recreation. Additionally, the 2024 BTFP intends to prioritize bikeway investments in areas that have not had their fair share of past investment. Although, the 2024 BTFP does not consider unpaved trails, equestrian needs, and recreational facilities within City parks and open space as did the 2015 BTFP, these items are maintained within the 2024 Plan with opportunities for revision as needed in the future.

In addition to the invite of participation through the physical activity of bicycling, the City of Albuquerque reached out to involve community members for their input, experience, and recommendations to inform 2024 BTFP bicycling-related needs and priorities.

11. The request is consistent with Comprehensive Plan GOAL 13.5 COMMUNITY HEALTH from Chapter 13: Resilience & Sustainability: Protect and maintain safe and healthy environments where people can thrive:

This request can help protect and maintain safe and healthy environments where people can thrive. As part of the 2024 BTFP update, there is an expanded focus on safety in vulnerable communities where individuals are more likely to rely on walking, bicycling, and taking transit. Second, adhering to the City's Vision Zero goals, implementing high-quality facilities that promote user safety and comfort can cut traffic fatalities and serious injuries as well as reduce overall stress for bicyclists with a network of connecting corridors that enable a wider range of trips to be taken by bicycle. Ideally, improving bikeway infrastructure can increase the number of trips taken by bicycle or alternative mode of transit, which can lead to a reduction of total vehicle GHG emissions and related impact on public health outcomes. The plan adds safe opportunities for passive and active recreation, that can also encourage greater time spent in the outdoors which is linked to a variety of health benefits including connections to nature, the community, and healthful habits.

12. Pursuant to IDO §14-16-6-7(B)(3) of the Integrated Development Ordinance, Review and Decision Criteria, an application for Adoption or Amendment of a Facility Plan shall be approved if it meets all of the following criteria:

- A. 14-16-6-7(B)(3)(a) The proposed plan or amendment is consistent with the spirit and intent of the ABC Comp Plan, as amended, and with other policies and plans adopted by the City Council.

Staff Response: As demonstrated by the policy-based analysis of the proposed Facility Plan, the request is consistent with applicable Comprehensive Plan Goals and Policies. These Goals

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 8 of 18

and Policies were analyzed in Section II: Analysis of City Plans and Ordinances of the staff report, and are included as Findings 7-11.

- B. 14-16-6-7(B)(3)(b) The proposed plan or amendment promotes the efficient use or administration of public or quasi-public facilities.

The proposed 2024 BTFP shall promote the efficient use and administration of public or quasi-public facilities in a variety of ways. First, the 2024 BTFP prioritized implementable, on- and off-street bikeway projects. This process used a data-driven, equity-focused approach to identify locations not easily accessed and provides a more consistent approach to bikeway and trail planning. It describes potential implementation timeframes so that there is less need to investigate options for funding and staff capacity, all of which can reduce build time and capital costs.

Next, the 2024 BTFP emphasizes on-street bikeway projects that can be easily implemented, either through routine maintenance or existing programs. Proposed projects such as safer crossings at major streets can also benefit people walking and/or walking in order to reach transit stops. Last, the 2024 BTFP promotes efficiency by identifying partnerships with local and regional groups or opportunities for project implementation through private development to leverage funding. The final 2024 BTFP recommendations are intended to be integrated into the Mid-Region Council of Governments (MRCOG) regional Long Range Bikeway System.

- C. 14-16-6-7(B)(3)(c) The plan or amendment will promote public health, safety, and general welfare.

The proposed BTFP shall promote public health, safety, and general welfare.

The 2024 BTFP supports public health by creating a bikeway network for all ages, abilities, and backgrounds of bicyclists. It proposes a more equitable distribution of bike network facilities by targeting improvements in locations that have lacked bike facilities but have disproportionate levels of traffic fatalities and injuries. It recognizes that different user groups have varying comfort levels using on- and off-street bike facilities and sometimes it is necessary to create facilities in parallel corridors. For example, some bicyclists who are more experienced may prefer bike lanes rather than multi-use trails because bike lanes allow more direct access to destinations than multi-use trails could provide. On the other hand, less experienced bicyclists may prefer the slower speeds and lack of auto traffic on multi-use trails.

The 2024 BTFP supports safety by prioritizing safer bike facilities and safer crossings in areas with disproportionately higher rates of bike and pedestrian fatalities and injuries (i.e., the HFIN maps) as well as areas with persons who are more dependent on walking, biking, and transit for everyday transportation needs. It incorporates FHWA best practices for proven safety countermeasures and aligns with recently-adopted policies such as Vision Zero.

The 2024 BTFP supports general welfare by creating a more equitable and sustainable network of bike facilities. It encourages biking not only for recreation and fitness but for all transportation purposes as an economically and environmentally sustainable transportation mode. It emphasizes the short-term implementation of on-street bike facilities through programs such as the Annual Complete Streets Maintenance Program to more quickly build a bike network that is both useful and safe.

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 9 of 18

13. Representatives of all Neighborhood Associations that are on file with the Office of Neighborhood Coordination (ONC) were notified of a final informational meeting that was held Tuesday, May 14, 2024, 6 - 7 pm via Zoom.
14. The 2024 BTFP Project Team held an online Zoom meeting to answer questions and spread awareness about the public review draft of the plan. The meeting was recorded and posted online, which was open to public comment from April 22, 2024 through May 31, 2024. Comments and concerns were addressed during the meeting. No additional comments were received following the posted May 14, 2024 Zoom meeting.
15. All Neighborhood Representatives were notified of the July 18, 2024 hearing as required by Integrated Development Ordinance (IDO) IDO §14-16-6-7(B) Adoption or Amendment of Facility Plan.
16. Written comments were received from community groups, representatives, and their members: Active Living Workgroup, the Greater Albuquerque Active Transportation Committee (GAATC), the Greater Albuquerque Recreational Trails Advisory Committee (GARTC), the President of BikeABQ, and the BikeABQ Board of Directors and group members. The five letters were in support of both the adoption and implementation of the 2024 BTFP. There is no known opposition as of this writing.
17. A total of seven Agencies responded to a request for comment.
  - Both the Bernalillo County Planning & Development Services and Public Service Company of New Mexico (PNM) support the adoption of 2024 BTFP.
  - CABQ Solid Waste indicated that any added vertical separation will cause challenges for residents putting out trash and recycle carts since these bins would no longer be serviceable if the wheels weren't allowed against the curb. Although the Plan does not recommend implementing separated bike lanes on residential streets—proposed bikeway projects will be on larger streets with higher vehicle volumes and speeds.
  - NMDOT asked that any potential impacts to NMDOT facilities from the 2024 BTFP be discussed with the District 3 Assistant Engineer. Proposed facilities on NMDOT roadways follow NMDOT Bike Plan recommendations or match existing NMDOT proposed plans. Additionally, the 2024 BTFP states that if a project falls within the NMDOT area or ROW, the City must coordinate with NMDOT as part of the design phase with internal/external coordination as needed before implementation.
  - Additional comments were general notes for communication during planning of any proposed project.

RECOMMENDED CONDITIONS OF APPROVAL – RZ-2024-00032 – Amendment of Facility Plan

1. The applicant shall coordinate with the staff planner to ensure that all Conditions of Approval are met and then submit a vetted, final version to the staff planner for filing at the Planning Department.
2. The number of evaluation criteria and verbiage on page 95 of the 2024 BTFP document shall match that which is used in Tables 17 and 18.
3. Solid Waste shall be consulted for any project incorporating separated bikeway designs especially where trash and recycle carts are stationed for pickup.

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 10 of 18

4. If a project falls within the NMDOT area or ROW, the City shall coordinate with NMDOT as part of the design phase with internal/external coordination as needed before implementation.
5. Any related future development shall comply with the General Regulations of the IDO and all other applicable design regulations, and be subject to collaboration with other City of Albuquerque Departments/ Offices and appropriate Agencies except as specifically approved by the EPC.
6. A legend shall be added to Figure 7 (page 40) and Figure 8 (page 41) labeling the mapped color scheme and associated bikeway features.

Sincerely,

*Megan Jones*

for Alan M. Varela,  
Planning Director

AV/CH/RM/MJ

CC: DMD, Director, JenniferTurner@cabq.gov  
DMD, PRD, vhermanson@cabq.gov  
Toole Design, asussman@tooledesign.com  
Ronald Bohannan, 5571 Midway Park Place, Albuquerque, NM 87109  
Larisa Chavez, lcrippenchavez@gmail.com  
Dante Gonzales, danteG48@yahoo.com  
Renee Horvath, aboard111@gmail.com  
Carlos A Michelén-Ströfer, c.michelen.strofer@gmail.com  
Keith Morris, keithmorrisnm@gmail.com  
Keith Stubbs, 305 Carlisle Blvd SE, Albuquerque, NM 87106  
Erin Thornton, erinthorn2000@att.net  
Ralph Wrons, (City Council D7), 8605 Bellehaven Ave NE, Albuquerque, NM 87112  
Legal, Acoon@cabq.gov  
EPC file

ABQ Park NA, shirleylockyer@gmail.com  
ABQ Park NA, tiffany.m1274@gmail.com  
ABQCore NA, abqcorena@gmail.com  
ABQCore NA, ken@cbm-wellness.com  
ABQCore NA, pcandelaria@gmail.com  
Academy Estates East NA, dukecity777@yahoo.com  
Academy Estates East NA, lepope@msn.com  
Academy Hills Park NA, academyhillsparkna@gmail.com  
Academy Hills Park NA, Chipolson44@gmail.com  
Academy Hills Park NA, nwaslosky@comcast.net  
Academy North NA, adamjwar@hotmail.com  
Academy North NA, annapresident505@gmail.com  
Academy North NA, dwehling@outlook.com



OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 11 of 18

Academy Ridge East NA, arena87111@gmail.com  
Academy Ridge East NA, arnoldtom@yahoo.com  
Academy Ridge East NA, ellielw@comcast.net  
Alamosa NA, jeanettebaca973@gmail.com  
Alamosa NA, jgallegoswccdg@gmail.com  
Altura Addition NA, archhero@aol.com  
Altura Addition NA, wright.js@gmail.com  
Altura Park NA, alturapark@gmail.com  
Altura Park NA, nspero@phs.org  
Altura Park NA, rajackso@msn.com  
Alvarado Gardens NA, medexter49@gmail.com  
Alvarado Gardens NA, president@alvaradoneighborhood.com  
Alvarado Park NA, elissa.dente@gmail.com  
Alvarado Park NA, marybe9@gmail.com  
Antelope Run NA, alexlrnm@comcast.net  
Antelope Run NA, antelope.run.abq@gmail.com  
Antelope Run NA, kfabiszak@sbcglobal.net  
Arroyo Del Oso North NA, adonneighborhood@gmail.com  
Arroyo Del Oso North NA, sdarling8713@gmail.com  
Arroyo Del Oso North NA, willieorr1@msn.com  
Barelas NA, barelasna505@gmail.com  
Barelas NA, bna@seanpotter.co  
Barelas NA, gcolts66@outlook.com  
Bear Canyon NA, bstone@yahoo.com  
Bear Canyon NA, patsybeck@aol.com  
BelAir NA, board@bananm.org  
BelAir NA, flops2@juno.com  
BelAir NA, ions82@hotmail.com  
Campus NA, calmartin93@gmail.com  
Campus NA, campus.neighborhood.assoc@gmail.com  
Campus NA, kenny.stansbury@gmail.com  
Cherry Hills Civic Association, k2riley@msn.com  
Cherry Hills Civic Association, rvaughn.rv@gmail.com  
Cibola Loop NA, gforrest47@comcast.net  
Cibola Loop NA, learrael@aol.com  
Cibola NA, josefree@yahoo.com  
Cibola NA, michael.alexander@altadt.com  
Cielito Lindo NA, clna87111@gmail.com  
Cielito Lindo NA, khattler@aol.com  
Cielito Lindo NA, pat.duda.52@gmail.com  
Citizens Information Committee of Martineztown, cicm-na@comcast.net  
Citizens Information Committee of Martineztown, kris042898@icloud.com  
Citizens Information Committee of Martineztown, martinez.renee@gmail.com  
Clayton Heights Lomas del Cielo NA, boyster2018@gmail.com  
Clayton Heights Lomas del Cielo NA, e\_molinadodge@yahoo.com  
Comanche Foothills NA, alldirectors@comanchefoothills.org  
Comanche Foothills NA, president@comanchefoothills.org

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 12 of 18

Comanche Foothills NA, vicepresident@comanchefoothills.org  
Crestview Bluff Neighbors Association, alotero57@gmail.com  
Crestview Bluff Neighbors Association, crestviewneighbors@outlook.com  
Del Norte NA, fourofseven@comcast.net  
Del Norte NA, white1ink@aol.com  
Del Webb Mirehaven NA, adabneymmxix@gmail.com  
Del Webb Mirehaven NA, dwmnanm@gmail.com  
Del Webb Mirehaven NA, mnietoshogry@gmail.com  
Delamar NA, dmmarz@gmail.com  
Delamar NA, susanpatcarroll@gmail.com  
District 4 Coalition of NA, sedueweke@juno.com  
District 4 Coalition of NA, smgriffie@noreste.org  
District 4 Coalition of NA, ssec.dist4@gmail.com  
District 6 Coalition of NA, sinfo@willsonstudio.com  
District 6 Coalition of NA, sm.ryankious@gmail.com  
District 7 Coalition of NA, sjearnoldjones70@gmail.com  
District 7 Coalition of NA, smikekious@aol.com  
District 8 Coalition of NA, sdistrict8coalition@gmail.com  
District 8 Coalition of NA, sidialt@gmail.com  
District 8 Coalition of NA, slamesainternationaldistrict@gmail.com  
District 8 Coalition of NA, snobullbob1@gmail.com  
District 9 East Gateway Coalition, dreikeja@comcast.net  
District 9 East Gateway Coalition, eastgatewaycoalition@gmail.com  
Downtown Neighborhoods Association, 1senn@sbcglobal.net  
Downtown Neighborhoods Association, sylvia4quality@gmail.com  
Eastrange Piedra Vista NA, erpvaabq@gmail.com  
Eastrange Piedra Vista NA, jrsphil1@hotmail.com  
Eastrange Piedra Vista NA, robertdebra4055@gmail.com  
Eastridge NA, tgrasmussen@msn.com  
Eastridge NA, verrityg@yahoo.com  
EDo NA, Incorporateddavid@edoabq.com  
EDo NA, IncorporatediRobertson@titan-development.com  
Elder Homestead NA, elderhomesteadna@gmail.com  
Elder Homestead NA, m.ryankious@gmail.com  
Elder Homestead NA, sp-wonderwoman@comcast.net  
Embudo Canyon NA, dreikeja@comcast.net  
Embudo Canyon NA, ecnainabq@gmail.com  
Embudo Canyon NA, jhardgrave505@gmail.com  
Fair West NA, abqfairwest@gmail.com  
Fair West NA, nick@127tech.net  
Fair West NA, Turner.katherine@outlook.com  
Four Hills Village Association, fhvapres@gmail.com  
Four Hills Village Association, herbwright@peoplepc.com  
Gavilan Addition NA, bhaskins1@aol.com  
Gavilan Addition NA, slernst@aol.com  
Glenwood Hills NA, james.levy@gmail.com  
Glenwood Hills NA, woody761@yahoo.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 13 of 18

Greater Gardner & Monkbridge NA, ggnaabq@gmail.com  
Greater Gardner & Monkbridge NA, ijwalkiw@hotmail.com  
Greater Gardner & Monkbridge NA, wood\_cpa@msn.com  
Heritage East Association of Residentshear.president@gmail.com  
Heritage East Association of Residents, realtyofnewmexico@gmail.com  
Heritage East Association of Residents, willpawl@msn.com  
Highland Business and NA, Incorporatedhallierossbach@gmail.com  
Highland Business and NA, Incorporatedhbanahighland@gmail.com  
Highland Business and NA, Incorporatedomardurant@yahoo.com  
Highlands North NA, emh@adexec.com  
Highlands North NA, reynolds@unm.edu  
Historic Old Town Association, president@albuquerqueoldtown.com  
Historic Old Town Association, secretary@albuquerqueoldtown.com  
Historic Old Town Associationzoning@albuquerqueoldtown.com  
Hodgin NA, austenwalsh@gmail.com  
Hodgin NA, malloryabq@msn.com  
Hoffmantown NA, padamsko@hotmail.com  
Hoffmantown NA, smurfmom@comcast.net  
Huning Castle NA, brenda.marks648@gmail.com  
Huning Castle NA, debzallen@ymail.com  
Huning Castle NA, hcnaalert@gmail.com  
Huning Highland Historic District Associationannlouisacarson@gmail.com  
Huning Highland Historic District Associationbsturge@gmail.com  
Indian Moon NA, lmartin900@aol.com  
Indian Moon NA, ronzawis@abq.com  
Inez NA, donna.yetter3@gmail.com  
Inez NA, inezneighassn@yahoo.com  
Inez NA, yemaya@swcp.com  
Jerry Cline Park NA, bluestealth93@gmail.com  
Jerry Cline Park NA, ericshirley@comcast.net  
John B Robert NA, johnb.robertna@comcast.net  
John B Robert NA, larswells@yahoo.com  
John B Robert NA, suzy0910@comcast.net  
Juan Tabo Hills NA, andrea\_pentell@hotmail.com  
Juan Tabo Hills NA, richtriple777@msn.com  
Kirtland Community Associationbakieaikin@comcast.net  
Kirtland Community Associationkande0@yahoo.com  
Knapp Heights NA, dwillems2007@gmail.com  
Knapp Heights NA, valerie4nm@live.com  
La Mesa Community Improvement Association5058041113rw@gmail.com  
La Mesa Community Improvement Associationidalialt@gmail.com  
La Mesa Community Improvement Associationlamesainternationaldistrict@gmail.com  
La Sala Grande NA, Incorporatedkellypetre@gmail.com  
La Sala Grande NA, Incorporatedlsgna67@gmail.com  
Ladera West NA, heckert@swcp.com  
Ladera West NA, laderawestna@gmail.com  
Ladera West NA, slcnalbq@aol.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 14 of 18

Las Lomitas NA, annes@swcp.com  
Las Lomitas NA, laslomitasNA@gmail.com  
Las Lomitas NA, r.griego04@comcast.net  
Las Terrazas NA, dvoth@uark.edu  
Las Terrazas NA, lasterrazasna@yahoo.com  
Las Terrazas NA, steidley@centurylink.net  
Laurelwood NA, laurelwoodna@gmail.com  
Laurelwood NA, wiseolga@gmail.com  
Lee Acres NA, abroyer1@msn.com  
Lee Acres NA, nissapatterson@gmail.com  
Loma Del Rey NA, jarmijo12@outlook.com  
Loma Del Rey NA, oronacarol@hotmail.com  
Los Altos Civic Associationathenalaroux@yahoo.com  
Los Altos Civic Associationdarlenesolis.laca@gmail.com  
Los Altos Civic Associationlosaltosneighborhood.abq@gmail.com  
Los Duranes NA, billherring@comcast.net  
Los Duranes NA, lee@lganm.com  
Los Duranes NA, losduraneneighborhood@gmail.com  
Los Griegos NA, lgna505abq@gmail.com  
Los Griegos NA, losgriegosna2022@gmail.com  
Los Griegos NA, marybethorn@gmail.com  
Los Poblanos NA, don.newman@mac.com  
Los Poblanos NA, kjboutz@gmail.com  
Los Poblanos NA, mail@lospoblanosna.com  
Los Volcanes NA, douglascooper@hotmail.com  
Los Volcanes NA, nedcarla@live.com  
Mark Twain NA, bardean12@comcast.net  
Mark Twain NA, joel.c.wooldridge@gmail.com  
Matthew Meadow NA, Incorporatedhenryksloma@gmail.com  
Matthew Meadow NA, Incorporatedmatthewmeadowna@gmail.com  
Matthew Meadow NA, Incorporatedstaborel@q.com  
McDuffie Twin Parks NA, carolamorris@aol.com  
McDuffie Twin Parks NA, drakelavellefamily@gmail.com  
McDuffie Twin Parks NA, mtpassociation@gmail.com  
McKinley NA, jesselholly@gmail.com  
McKinley NA, lucerowilfred@gmail.com  
McKinley NA, mckinleyneighbor@gmail.com  
Mesa Del Sol NA, catburns87106@gmail.com  
Mesa Del Sol NA, dmills544@gmail.com  
Mile Hi NA, jbd2946@hotmail.com  
Mile Hi NA, mbcarr92@gmail.com  
Molten Rock NA, jillyeagley@swcp.com  
Molten Rock NA, vigilm75@hotmail.com  
Mossman NA, maryasena1@gmail.com  
Mossman NA, mossmanneighborhoodassociation@gmail.com  
Mossman NA, Mr.CraigDegenhardt@gmail.com  
Near North Valley NA, hnorfleet009@gmail.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 15 of 18

Near North Valley NA, jsabatini423@gmail.com  
Near North Valley NA, nearnorthvalleyna@gmail.com  
Netherwood Park NA, netherwoodpark@gmail.com  
Netherwood Park NA, saramills@comcast.net  
Netherwood Park NA, wgannon@unm.edu  
Nob Hill NA, chrisafaith@icloud.com  
Nob Hill NA, meyster1@me.com  
Nob Hill NA, theboard@nobhill-nm.com  
Nor Este NA, rpmartinez003@gmail.com  
Nor Este NA, uri.bassan@noreste.org  
North Campus NA, maiamullen@gmail.com  
North Campus NA, northcampusna@gmail.com  
North Campus NA, tdavisnm@gmail.com  
North Domingo Baca NA, hhowerton9379@msn.com  
North Domingo Baca NA, judiepellegrino@gmail.com  
North Eastern Association of ResidentsAburnett505@gmail.com  
North Eastern Association of ResidentsMMuddpi@gmail.com  
North Eastern Association of Residentsnear.neighborhood@gmail.com  
North Valley Coalitionjasalazarm@gmail.com  
North Valley Coalitionnvcabq@gmail.com  
North Valley Coalitionpeggynorton@yahoo.com  
Ocate NA, alexanderrahimi@yahoo.com  
Ocate NA, president@ocateneighborhood.org  
Ocate NA, sharonr1492@gmail.com  
Oso Grande NA, info@osograndena.org  
Oso Grande NA, janiemc07@gmail.com  
Oso Grande NA, nobullbob1@gmail.com  
Paloma Del Sol NA, bob.mcelearney@yahoo.com  
Paloma Del Sol NA, rqldq1@gmail.com  
Palomas Park NA, annwagner10@gmail.com  
Palomas Park NA, palomaspark@gmail.com  
Palomas Park NA, wmarsh7@comcast.net  
Paradise Hills Civic Association, elizabethkayhaley@gmail.com  
Paradise Hills Civic Association, kym.fleck@gmail.com  
Paradise Hills Civic Association, phcassoc@gmail.com  
Parkland Hills NA, peterkalitsis@gmail.com  
Parkland Hills NA, phnacommunications@gmail.com  
Parkway NA, parkwaypoint@yahoo.com  
Pat Hurley NA, julieradoslovich@gmail.com  
Pat Hurley NA, president.phna@gmail.com  
Pat Hurley NA, vicepresident.phna@gmail.com  
Peppertree Royal Oak Residents Association, a.verardo@comcast.net  
Peppertree Royal Oak Residents Association, jnapacheco@gmail.com  
Piedras Marcadas NA, debbie.a.koranyi@gmail.com  
Piedras Marcadas NA, pmnaabq@gmail.com  
Piedras Marcadas NA, rlalor619@gmail.com  
Pueblo Alto NA, auntiesym@msn.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 16 of 18

Pueblo Alto NA, panaabq@gmail.com  
Pueblo Alto NA, tyler.richter@gmail.com  
Quaker Heights NA, lillog2002@yahoo.com  
Quaker Heights NA, valarid@gmail.com  
Quigley Park NA, lisa.whalen@gmail.com  
Quigley Park NA, mo01llama@gmail.com  
Quigley Park NA, quigley.park@gmail.com  
Quintessence NA, president@qna-abq.org  
Quintessence NA, qna.abq@gmail.com  
Rancho Sereno NA, aschwartz74@comcast.net  
Rancho Sereno NA, board@abqrsna.com  
Rancho Sereno NA, debracox62@comcast.net  
Raynolds Addition NA, janet.manry@gmail.com  
Raynolds Addition NA, perego.mauro@gmail.com  
Raynolds Addition NA, raynoldsneighborhood@gmail.com  
Rio Grande Boulevard NA, chowski83@gmail.com  
Rio Grande Boulevard NA, newmexmba@aol.com  
Riverview Heights NA, djclink2@msn.com  
Riverview Heights NA, tollhouse1@msn.com  
Route 66 West NA, cherquezada@yahoo.com  
Route 66 West NA, paulfava@gmail.com  
Sandia High School Area NA, john.l.jones.nm@gmail.com  
Sandia High School Area NA, mikekious@aol.com  
Santa Barbara Martineztown NA, lnjalopez@msn.com  
Santa Barbara Martineztown NA, salamdezia@gmail.com  
Santa Barbara Martineztown NA, sbmartineztown@gmail.com  
Santa Fe Village NA, ijlibretto@gmail.com  
Santa Fe Village NA, joannewright1949@gmail.com  
Santa Fe Village NA, sfvna2014@gmail.com  
Sawmill Area NA, browne.amanda.jane@gmail.com  
Sawmill Area NA, mari.kempton@gmail.com  
Sawmill Area NA, sawmillneighbor@gmail.com  
Siesta Hills NA, franchini3@gmail.com  
Siesta Hills NA, jolsen1204@gmail.com  
Siesta Hills NA, siesta2na.pres@gmail.com  
Siesta Hills NA, siesta2napres@gmail.com  
Silver Hill NA, evarockstar@msn.com  
Silver Hill NA, ja.montalbano@gmail.com  
Silver Hill NA, silverhillabq@gmail.com  
Singing Arrow NA, 123mbeck@gmail.com  
Singing Arrow NA, abqsana@gmail.com  
Singing Arrow NA, sasdelgado748@gmail.com  
South Broadway NA, abqsbna@gmail.com  
South Broadway NA, fparmijo@gmail.com  
South Broadway NA, onastine@gmail.com  
South Guadalupe Trail NA, jasalazarm@gmail.com  
South Guadalupe Trail NA, nicgonzales0218@gmail.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 17 of 18

South Los Altos NA, [contact@slananm.org](mailto:contact@slananm.org)  
South Los Altos NA, [debsla@swcp.com](mailto:debsla@swcp.com)  
South Los Altos NA, [notices@slananm.org](mailto:notices@slananm.org)  
South San Pedro NA, [tallest@gmail.com](mailto:tallest@gmail.com)  
South San Pedro NA, [tmienterprises1@gmail.com](mailto:tmienterprises1@gmail.com)  
South West Alliance of Neighborhoods (SWAN Coalition), [gerulibarril@gmail.com](mailto:gerulibarril@gmail.com)  
South West Alliance of Neighborhoods (SWAN Coalition), [housealbchrome@gmail.com](mailto:housealbchrome@gmail.com)  
Southeast Heights NA, [jpate@molzencorbin.com](mailto:jpate@molzencorbin.com)  
Southeast Heights NA, [pmbdoc@yahoo.com](mailto:pmbdoc@yahoo.com)  
Southeast Heights NA, [sehna.membership@gmail.com](mailto:sehna.membership@gmail.com)  
Spruce Park NA, [emailbrowns@aol.com](mailto:emailbrowns@aol.com)  
Spruce Park NA, [pnsswift@comcast.net](mailto:pnsswift@comcast.net)  
Stardust Skies Park NA, [lovelypeake@comcast.net](mailto:lovelypeake@comcast.net)  
Stardust Skies Park NA, [mateo.stratton@gmail.com](mailto:mateo.stratton@gmail.com)  
Stinson Tower NA, [epchavez49@gmail.com](mailto:epchavez49@gmail.com)  
Stinson Tower NA, [rizzierinm@gmail.com](mailto:rizzierinm@gmail.com)  
Stinson Tower NA, [stnapres@outlook.com](mailto:stnapres@outlook.com)  
Stronghurst Improvement Association Inc, [63aberdaber@gmail.com](mailto:63aberdaber@gmail.com)  
Stronghurst Improvement Association Inc, [aberdaber@comcast.net](mailto:aberdaber@comcast.net)  
Stronghurst Improvement Association Inc, [wqsabatini@gmail.com](mailto:wqsabatini@gmail.com)  
Summit Park NA, [jen.esquibel@gmail.com](mailto:jen.esquibel@gmail.com)  
Summit Park NA, [joebrooks@homesinabq.com](mailto:joebrooks@homesinabq.com)  
Summit Park NA, [summitparkNA@gmail.com](mailto:summitparkNA@gmail.com)  
Supper Rock NA, [admin@supper-rock.org](mailto:admin@supper-rock.org)  
Supper Rock NA, [kmotheirish@gmail.com](mailto:kmotheirish@gmail.com)  
Supper Rock NA, [srock692@comcast.net](mailto:srock692@comcast.net)  
Sycamore NA, [mabdowa@gmail.com](mailto:mabdowa@gmail.com)  
Sycamore NA, [mg411@q.com](mailto:mg411@q.com)  
Sycamore NA, [richard@vigliano.net](mailto:richard@vigliano.net)  
Taylor Ranch NA, [aboard111@gmail.com](mailto:aboard111@gmail.com)  
Taylor Ranch NA, [president@trna.org](mailto:president@trna.org)  
Taylor Ranch NA, [rioreal@earthlink.net](mailto:rioreal@earthlink.net)  
The Courtyards NA, [jackiecooke@comcast.net](mailto:jackiecooke@comcast.net)  
The Courtyards NA, [jaubele1012@comcast.net](mailto:jaubele1012@comcast.net)  
The Courtyards NA, [thecourtyardsabq@gmail.com](mailto:thecourtyardsabq@gmail.com)  
The Quail Springs NA, [gstone@swcp.com](mailto:gstone@swcp.com)  
The Quail Springs NA, [laurah067@gmail.com](mailto:laurah067@gmail.com)  
Thomas Village NA, [daniwammy@gmail.com](mailto:daniwammy@gmail.com)  
Thomas Village NA, [jwierzba@comcast.net](mailto:jwierzba@comcast.net)  
Tres Volcanes NA, [info@tresvolcanesna.org](mailto:info@tresvolcanesna.org)  
Tres Volcanes NA, [randm196@gmail.com](mailto:randm196@gmail.com)  
Tres Volcanes NA, [t0m2pat@yahoo.com](mailto:t0m2pat@yahoo.com)  
Tuscany NA, [hlhen@comcast.net](mailto:hlhen@comcast.net)  
Tuscany NA, [tuscanylandscape@me.com](mailto:tuscanylandscape@me.com)  
Tuscany NA, [vistadelnorte@me.com](mailto:vistadelnorte@me.com)  
University Heights NA, [info@uhanm.org](mailto:info@uhanm.org)  
University Heights NA, [mandy@theremedyspa.com](mailto:mandy@theremedyspa.com)

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 18 of 18

University Heights NA, sricdon@earthlink.net  
Valle Prado NA, jlbeutler@gmail.com  
Valle Prado NA, valle.prado.na@gmail.com  
Vecinos Del Bosque NA, drewjara72@gmail.com  
Vecinos Del Bosque NA, vdb87105@gmail.com  
Victory Hills NA, altheatherton@gmail.com  
Victory Hills NA, info@willsonstudio.com  
Victory Hills NA, victoryhills505@gmail.com  
Vineyard Estates NA, djesmeek@comcast.net  
Vineyard Estates NA, vineyardestates.na@gmail.com  
Vineyard Estates NA, zarecki@aol.com  
Vista Del Mundo NA, ccrum.vdm@gmail.com  
Vista Del Mundo NA, dproach@sandia.gov  
Vista Del Norte Alliance, jamessouter@msn.com  
Vista Del Norte Alliance, tuscanylandscape@me.com  
Vista Del Norte Alliance, vistadelnorte@me.com  
Vista Grande NA, bradyklovelady@gmail.com  
Vista Grande NA, Schaefer@unm.edu  
Vista Magnifica Association, beatfeet17@yahoo.com  
Vista Magnifica Association, madmiles@msn.com  
Wells Park NA, doreenmcknightnm@gmail.com  
Wells Park NA, edwina.kiro@yahoo.com  
Wells Park NA, wellsparkna@gmail.com  
West Mesa NA, housealbchrome@gmail.com  
West Mesa NA, westmesa63@gmail.com  
West Mesa NA, westmesaneighborhoodassociation@googlegroups.com  
West Old Town NA, g.clarke45@comcast.net  
West Old Town NA, rnorman@sunpinehomes.com  
West Old Town NA, westoldtownna@gmail.com  
West Park NA, cealleach1@gmail.com  
West Park NA, melvin.andrewsrn@gmail.com  
West Park NA, westparkna@gmail.com  
Westgate Heights NA, mattearchuleta1@hotmail.com  
Westgate Heights NA, navrmc6@aol.com  
Westgate Heights NA, westgate9901@gmail.com  
Westside Coalition of NAs, aboard111@gmail.com  
Westside Coalition of NAs, elizabethkayhaley@gmail.com  
Wildflower Area NA, ggarcia103@comcast.net  
Wildflower Area NA, kbbh@hotmail.com  
Yale Village NA, donaldlove08@comcast.net  
Yale Village NA, klove726@gmail.com  
Yale Village NA, yalevillage@comcast.net



**TABLE OF CONTENTS**  
**2024 Bikeway & Trails Facility Plan**  
**PR-2024-010493 RZ-2024-00032**

	<u>PAGE(S)</u>
MEMO.....	1 - 2
NOTICE OF DECISION, JULY 18, 2024.....	3 - 19
EPC STAFF REPORT, JULY 18, 2024 .....	20 - 681
EPC 48-HOUR MATERIALS.....	682 - 693
EPC MINUTES, JULY 18, 2024.....	694 - 724
ADDITIONAL INFORMATION.....	725 - 728



# CITY OF ALBUQUERQUE

## Albuquerque, New Mexico

### Office of the Mayor

Mayor Timothy M. Keller

#### INTER-OFFICE MEMORANDUM

August 16, 2024

**TO:** Dan Lewis, President, City Council

**FROM:** Timothy M. Keller, Mayor

**SUBJECT:** Project# PR-2024-010493 RZ-2024-00032 Bikeway and Trail Facilities Plan

Staff Planners: Robert Messenger, Senior Planner and Catherine Heyne, Planner

#### **Request**

The request is for City Council to make a decision on the EPC's recommendation to approve the proposed 2024 Bikeway & Trail Facilities Plan (BTFP; the "2024 BTFP"). The 2024 BTFP is a citywide, Rank 2 Facility Plan that guides the selection of bike-related policies and projects in the City of Albuquerque.

This amendment facilitates the adoption of the 2024 BTFP. The 2024 BTFP would guide the direction for the City's infrastructure investments and is a means to implement the Comprehensive Goals and Policies specifically for bikeway and trail facilities.

#### **Environmental Planning Commission (EPC) Role**

The EPC is the Review and Recommending Body for the Adoption or Amendment of a Facility Plan pursuant to IDO §14-16-6-7(B). Consequently, the EPC held a public hearing on the application for the 2024 BTFP and made a recommendation to the City Council on the application. The City Council is the final decision-making body, whose decision cannot be appealed. This case is a legislative matter.

The 2024 BTFP was submitted on June 6, 2024, reviewed by the EPC on July 18<sup>th</sup>, 2024, and sent with a recommendation of Approval to the City Council. The City Council is the final decision-making body for this request.

The BTFP was last updated in 2015 (prior to the adoption of the IDO in 2018), and approved by City Council May 18, 2015 (R-14-42). The 2024 BTFP is the first revision to the BTFP using IDO procedures. Because the application was submitted prior to the adoption of the 2024 IDO updates, first effective August 3, 2024, both the EPC and the City Council must follow the 2023 IDO procedures.

## Neighborhood/Public

All neighborhood organizations recognized by the City Office of Neighborhood Coordination are affected by this request. Neighborhood Organization representatives that do not have email addresses were notified by mail as required. A public information meeting was held on May 14, 2024 via Zoom to answer questions and provide awareness of the public draft review process. Public comment on the draft plan was open from April 22 through May 31, 2024.

Members of the public spoke during the EPC hearing and expressed overall support for the 2024 BTFP. Although some expressed concerns about e-bike use in Major Public Open Space (MPOS) areas and on multi-use trails, staff noted that these regulations are being proposed through a separate process and not the BTFP itself. Parks and Recreation has submitted a proposed ordinance, [O-24-14](#) (“E-Bikes, And Other Personal Motorized Modes Of Transportation”) to regulate e-bike use, which is governed under the City’s traffic code (Chapter 8) and Open Space lands and regional preserves (Chapter 5) of the Code of Ordinances.

## Conclusion

At its July 18, 2024 regular hearing, the EPC voted to forward a recommendation of approval to the City Council regarding PR-2024-010493 RZ-2024-00032 Bikeway and Trail Facilities, a Rank 2 Facility Plan. The EPC forwarded six (6) Conditions for recommendation of approval, and all 6 have been met as of this writing.

The full record of the hearing is being transmitted via this memo.

Approved:

Approved as to Legal Form:

---

Dr. Samantha Sengel                      Date  
Chief Administrative Officer (CAO)

---

Lauren Keefe                                      Date  
City Attorney

Recommended:

---

Alan Varela                                      Date  
Planning Director

PLANNING DEPARTMENT  
URBAN DESIGN & DEVELOPMENT DIVISION  
600 2nd Street NW, 3rd Floor, Albuquerque, NM 87102  
P.O. Box 1293, Albuquerque, NM 87103  
Office (505) 924-3860 Fax (505) 924-3339



## OFFICIAL NOTIFICATION OF DECISION

July 18, 2024

City of Albuquerque Department  
of Municipal Development  
400 Marquette NW, Suite 303  
Albuquerque, NM 87102

**Project # PR-2024-010493**  
**RZ-2024-00032** – Amendment of Facility Plan

Valerie Hermanson, Public Works Strategic Program Manager,  
representative of the City of Albuquerque Department of  
Municipal Development, requests an Amendment of the City of  
Albuquerque Bikeway and Trail Facilities Plan (BTFP). City-wide.

Staff Planners: Robert Messenger and Catherine Heyne

On July 18, 2024, the Environmental Planning Commission (EPC) voted to forward a recommendation of APPROVAL to the City Council for PR-2024-010493 RZ-2024-00032 – Amendment of Facility Plan based on the following recommended Findings and Subject to the recommended conditions of approval.

### RECOMMENDED FINDINGS – RZ-2024-00032 –Amendment of Facility Plan

1. The request is for an Amendment to the 2015 Bikeways and Trails Facilities Plan (BTFP). The BTFP is a Rank 2 Facility Plan that provides direction for the City's infrastructure investments and is a mechanism for implementing the Comprehensive Plan Goals and Policies – specifically for bikeway and trail facilities within the City.
2. The 2024 BTFP amends and updates the 2015 BTFP with new or improved bike facilities added to the existing citywide bike system to reflect emerging best practices in bicycle network planning and bikeway design.
3. The request is for a citywide plan that includes all area Uses and Zoning.
4. The major changes in the 2024 plan from the 2015 Plan are that the 2024 BTFP:
  - Supports the implementation of recently-adopted City ordinances and plans such as the Complete Streets Ordinance, Vision Zero Action Plan, and the Climate Action Plan.
  - Reviews the adopted policies, programs, and criteria for the selection of on- and off-street bike facility improvements with an emphasis on crossings with major roads.

- Addresses equity in the distribution of safer and better biking connections throughout the City and updates the prioritization process to center the needs in areas where bike facilities have traditionally been under-funded.
  - Reflects the City’s commitment to emphasize an “all ages, abilities, and backgrounds” approach in providing bike facilities throughout the City.
  - Prioritizes safety improvements in areas with high levels of traffic violence especially at crossings where on-street bikeways and trails intersect major roads.
  - Adds a Bicycle and Trail Crossings Guide (Appendix J) for the selection of appropriate crossing treatments based on the bike/trail facility, the road facility, and location context (e.g., urban, suburban, or rural).
  - Includes a Bike Boulevard Toolkit (Appendix E) to reflect the value of bike boulevards as part of an implementable, on-street bike network.
  - Provides policy recommendations for e-bikes on paved trails and emerging best practices in e-bike rebate programs to reflect the growth in e-bike mobility.
  - Contains descriptions and summary tables for all proposed projects, including timeframes and cost estimates.
  - Updates the document name from Bikeways & Trails Facilities Plan to Bikeway & Trail Facilities Plan.
5. Bike & trail facilities proposed in the 2024 Plan recommendations are intended to be integrated into the regional Long Range Bikeway System that is maintained by the Mid-Region Council of Governments (MRCOG) with a recommendation to update the Bikeway and Trail Facilities Plan at regular intervals, such as every five years.
6. The Albuquerque/Bernalillo County Comprehensive Plan and the City of Albuquerque Integrated Development Ordinance (IDO), and the BTFP Rank 2 Facility Plan are incorporated herein by reference and made part of the record for all purposes.
7. The request is consistent with the following Comprehensive Plan Goal and Policy regarding Development Patterns from Chapter 5- Land Use:

A. **GOAL 5.1 CENTERS & CORRIDORS:** Grow as a community of strong Centers connected by a multi-modal network of Corridors.

The facility plan amendment could help the City grow as a community that connects strong Centers through a multi-modal network of Corridors that include on- and off-street bicycling facilities. The 2024 BTFP strengthens the ability of both Centers and Corridors to serve the needs of bicyclists because it emphasizes an “all ages and abilities” approach to make biking a more convenient option for those who bike for transportation purposes as well as recreation. By emphasizing low-stress facilities, such as bike boulevards that parallel busier roads (e.g., Multi-Modal Corridors), biking becomes a viable option for new bicyclists and those hesitant to ride with traffic or in bike lanes along busy roads

As part of the prioritization process for proposed bike projects, the request strengthens Centers by giving bike facilities that connect to Centers higher points than those that do not connect to Centers. The request is consistent with Goal 5.1 Centers & Corridors.

- B. **POLICY 5.1.11 MULTI-MODAL CORRIDORS:** Design safe, Multi-Modal Corridors that balance the competing needs of multiple modes of travel and become more mixed-use and pedestrian-oriented over time.

The 2024 BTFP supports the design of safe Multi-Modal Corridors that balance the needs of multiple modes of travel. These Corridors are designed to become more mixed-use and pedestrian-oriented over time. Development should be encouraged to include a more mixed use, pedestrian-oriented environment with nearby parallel streets dedicated to serve bicycle travel. Because the 2024 BTFP aims to make biking safer for all users, it avoids placing bike facilities such as bike lanes or sidepaths in places where such facilities would be unsafe for the majority of bicyclists. In their present state, Multi-Modal Corridors are unsafe locations for bike facilities since they concentrate on serving fast-moving and heavy volumes of motorized traffic in locations with frequent driveways for commercial parking lots.

8. The request is consistent with the following Comprehensive Plan Goals and Policies regarding Development Patterns from Chapter 6: Transportation:

- A. **GOAL 6.1 LAND USE-Transportation Integration:** Plan, develop, operate, and maintain a transportation system to support the planned character of existing and future land uses.

The 2024 BTFP amendment would facilitate the creation of a bike network within the context of a complete transportation system to support the planned character of existing and future land uses as designated by Centers and Corridors in the Comprehensive Plan. A key feature of the 2024 BTFP is an emphasis on improved bikeway and trail crossings, specifically in locations where pedestrian and bike facility crossings should be prioritized to support the planned character of Centers and street elements based on Corridor designations. Additionally, the network attempts to connect people as directly as possible to major community destinations and other low stress bikeways, including multi-use trails. Examples of integration of existing and future transport systems are highlighted in Appendix G: Project Profiles of the 2024 BTFP.

- B. **GOAL 6.2 MULTI-MODAL SYSTEM:** Encourage walking, biking, and transit, especially at peak-hour commuting times, to enhance access and mobility for people of all ages and abilities.

The 2024 BTFP encourages people of all ages and abilities to choose walking, biking, and transit through improvements to bike and trail facilities as well as intersection improvements of the crossings of these facilities with roads, both of which enhance access and mobility. The 2024 Plan proposes to improve biking and walking comfort and safety by providing barriers between automobile traffic and those using alternative forms of transportation. This can include adding protected hybrid beacons (PHBs) at road crossings. Buffers and other bike facility improvements can also enhance comfort and access to people of all ages, which can further inspire more people to choose transit since transit trips typically begin with either biking or walking to reach transit stops. With safer bike and trail facilities and intersections, commuters can be more motivated to walk, bike and/or use transit, especially during peak hours. Lastly, the 2024 BTFP proposes policies and programs to encourage mode share shifts, especially during peak-hour commuting times.

- C. **POLICY 6.2.2 Incorporate Complete Streets concepts and policies into the development, retrofit, and rehabilitation of all transportation infrastructure at all phases, including planning, scoping, design, implementation, and performance monitoring.**

The 2024 BTFP incorporates Complete Streets concepts and policies into the development, retrofit and rehabilitation of all phases of transportation infrastructure. It leverages the City's

Annual Complete Streets Maintenance program identify opportunities to quickly and cost effectively create on-street bikeways such as a) bike routes through signage and traffic calming, b) restriping bike lanes and/or buffered bike lanes, and/or c) improve substandard existing bike lanes within the curb lines of paved roads. One of the 2024 BTFP recommendations is to enhance the Annual Complete Streets Maintenance Program to include advanced planning for resurfacing needs and inclusive selection criteria for project locations.

- D. **POLICY 6.2.5 BICYCLE NETWORK:** Promote an areawide bicycle and trail network for transportation and recreation that emphasizes connections among Centers and safe crossings at intersections.

The 2024 BTFP promotes an areawide bicycle and trail network for transportation and recreational purposes that emphasizes connections among Centers and provides an increased focus on safe intersection crossings. Part of the scoring to evaluate potential bike facilities that was done for the 2024 BTFP update was to evaluate how well bikeways connect to Centers and other community facilities. Those that provide better connectivity and access more Centers and community facilities are scored higher than those that do not. The 2024 BTFP emphasizes the importance of safe intersection crossings by providing a Bicycle and Trail Crossings Guide, which was not included in previous plans (for more information, see Appendix J in the 2024 BTFP).

- E. **GOAL 6.3 SAFETY:** Plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users.

The 2024 BTFP is a guide to plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users. Although the 2024 BTFP intent is to improve conditions for bike travel, bike facility improvements also support safe access for modes such as walking and transit use. This is because the 2024 BTFP incorporates Vision Zero goals and policies to improve safety, especially for such roadway users as people bicycling or walking.

The 2024 BTFP improves safety for cyclists through street design. The plan recommends bike facilities such as protected bike lanes that follow national best practices that are proven to improve safety.

- F. **GOAL 6.4 PUBLIC HEALTH:** Promote individual and community health through active transportation, noise mitigation, and air quality protections.

The 2024 BTFP promotes individual and community health through promoting active transportation via biking. As the bike mode share increases and motor vehicle mode share use decreases, there will be less noise and air pollution caused by motor vehicles burning fossil fuels.

- G. **POLICY 6.4.1 ACTIVE TRANSPORTATION:** Promote options and mobility for walking, biking, and other nonmotorized travel.

The 2024 BTFP promotes options and mobility for walking, biking, and other non-motorized travel. The plan recommends safety improvements, especially at intersections of multi-modal trails at major roads, which can encourage more walking trips and other nonmotorized travel, as well as better access for persons using active transportation to reach transit stops because these recommendations improve access to Centers and other key community destinations. The 2024 BTFP plan has several recommendations to encourage biking as a form of active transportation, such as the Esperanza Bicycle Safety Education Center and events like Bike to Wherever Day.

- H. **GOAL 6.5 EQUITY:** Expand mobility by providing safe and connected networks for non-auto travel and public transit for low-income and vulnerable populations.

One of the main goals of the 2024 BTFP is to expand mobility for low-income and vulnerable populations by providing safer and better networks for bike and other non-automotive travel modes. Because low-income and vulnerable populations are less likely to own a car (or be able to drive) and more likely to use public transit, bike network improvements in High Fatal and Injury Network (HFIN) high crash areas and vulnerable communities also expand transit mobility. This is because all transit trips begin and end with a non-motorized mode such as biking or walking. In recognition of the disproportionate share of traffic violence experienced in low-income and vulnerable communities, equity was given the highest single evaluation criteria to and weighted at 20% (see Chapter 6, Table 18).

- I. **POLICY 6.5.1 EQUITABLE TRANSPORTATION SYSTEMS:** Consider the needs of people of all ages and abilities in the design, construction, and operation of transportation systems.

The 2024 BTFP request makes an “all ages and abilities” approach the main theme in the design, construction, and operation of bike transportation systems. This importance is reflected in the first sentence of the Vision Statement:

Albuquerque is a city that embraces bicycling by implementing convenient on-street bikeways and paved multi-use trail facilities that enhance safety and appeal to people of all ages, abilities, and backgrounds (underlined for emphasis).

The first Goal in the 2024 BTFP is to “Increase access to on-street bikeways and multi-use trails for all people in Albuquerque.” One means of increasing access is to prioritize bike infrastructure improvements in areas previously lacking in such facilities or in areas with high social vulnerability.

- J. **GOAL 6.6 ECONOMY:** Invest in a transportation system that stimulates and supports job creation and business development and improves the movement of people, goods, and services.

Consistent to the original 2015 BTFP, the bikeway and trail network can continue to be leveraged as an integral part of economic development that helps stimulate and support job creation and business development along routes made more accessible to cycling. Also, providing quality transportation infrastructure citywide is a proven approach to improving access to jobs and services, especially for those without personal vehicle transport.

This request also invests in a transportation system that improves the movement of people, goods, and services by applying appropriate contexts of bikeway facility types derived from the Federal Highway Administration (FHWA) Bikeway Selection Guide and the National Association of City Transportation Officials (NACTO) Urban Bikeway Design Guide and in support of the City’s Vision Zero goals by implementing high-quality facilities that promote user safety and comfort. Additional design guidance and standards are taken from the City of Albuquerque Development Process Manual (DPM) with the 2024 BTFP also recommending revisions to the DPM based on emerging national best practices. The resulting 2024 BTFP suggestions for individual bikeway and trail improvement projects reflect the bikeway infrastructure needed to achieve low-stress conditions for people biking citywide.

- K. **GOAL 6.7 SYSTEM EFFECTIVENESS:** Implement and maintain an effective and efficient transportation system in a coordinated and cost-effective manner.



The 2024 BTFP matches infrastructure capacity, design, and maintenance to the development context, expected land use intensities of abutting development, and all travel modes by considering roadway capacity, design, maintenance, and land use when identifying the appropriate bikeway facility type for a roadway. The roadway right-of-way and width, traffic volumes and speeds, traffic volume thresholds, and existing or expected land uses were additional metrics considered as new and enhanced bikeways were proposed, or when considering when a road diet would be appropriate in the implementation of a bikeway.

10. The request is consistent with Comprehensive Plan GOAL 10.2 PARKS from Chapter 10: Parks & Open Space: Provide opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents:

This request provides opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents by proposing a connected network of low-stress, high-comfort on- and off-street bikeway options for people of all ages, abilities, and backgrounds for transportation and recreation. Additionally, the 2024 BTFP intends to prioritize bikeway investments in areas that have not had their fair share of past investment. Although, the 2024 BTFP does not consider unpaved trails, equestrian needs, and recreational facilities within City parks and open space as did the 2015 BTFP, these items are maintained within the 2024 Plan with opportunities for revision as needed in the future.

In addition to the invite of participation through the physical activity of bicycling, the City of Albuquerque reached out to involve community members for their input, experience, and recommendations to inform 2024 BTFP bicycling-related needs and priorities.

11. The request is consistent with Comprehensive Plan GOAL 13.5 COMMUNITY HEALTH from Chapter 13: Resilience & Sustainability: Protect and maintain safe and healthy environments where people can thrive:

This request can help protect and maintain safe and healthy environments where people can thrive. As part of the 2024 BTFP update, there is an expanded focus on safety in vulnerable communities where individuals are more likely to rely on walking, bicycling, and taking transit. Second, adhering to the City's Vision Zero goals, implementing high-quality facilities that promote user safety and comfort can cut traffic fatalities and serious injuries as well as reduce overall stress for bicyclists with a network of connecting corridors that enable a wider range of trips to be taken by bicycle. Ideally, improving bikeway infrastructure can increase the number of trips taken by bicycle or alternative mode of transit, which can lead to a reduction of total vehicle GHG emissions and related impact on public health outcomes. The plan adds safe opportunities for passive and active recreation, that can also encourage greater time spent in the outdoors which is linked to a variety of health benefits including connections to nature, the community, and healthful habits.

12. Pursuant to IDO §14-16-6-7(B)(3) of the Integrated Development Ordinance, Review and Decision Criteria, an application for Adoption or Amendment of a Facility Plan shall be approved if it meets all of the following criteria:

- A. 14-16-6-7(B)(3)(a) The proposed plan or amendment is consistent with the spirit and intent of the ABC Comp Plan, as amended, and with other policies and plans adopted by the City Council.

Staff Response: As demonstrated by the policy-based analysis of the proposed Facility Plan, the request is consistent with applicable Comprehensive Plan Goals and Policies. These Goals

and Policies were analyzed in Section II: Analysis of City Plans and Ordinances of the staff report, and are included as Findings 7-11.

- B. 14-16-6-7(B)(3)(b) The proposed plan or amendment promotes the efficient use or administration of public or quasi-public facilities.

The proposed 2024 BTFP shall promote the efficient use and administration of public or quasi-public facilities in a variety of ways. First, the 2024 BTFP prioritized implementable, on- and off-street bikeway projects. This process used a data-driven, equity-focused approach to identify locations not easily accessed and provides a more consistent approach to bikeway and trail planning. It describes potential implementation timeframes so that there is less need to investigate options for funding and staff capacity, all of which can reduce build time and capital costs.

Next, the 2024 BTFP emphasizes on-street bikeway projects that can be easily implemented, either through routine maintenance or existing programs. Proposed projects such as safer crossings at major streets can also benefit people walking and/or walking in order to reach transit stops. Last, the 2024 BTFP promotes efficiency by identifying partnerships with local and regional groups or opportunities for project implementation through private development to leverage funding. The final 2024 BTFP recommendations are intended to be integrated into the Mid-Region Council of Governments (MRCOG) regional Long Range Bikeway System.

- C. 14-16-6-7(B)(3)(c) The plan or amendment will promote public health, safety, and general welfare.

The proposed BTFP shall promote public health, safety, and general welfare.

The 2024 BTFP supports public health by creating a bikeway network for all ages, abilities, and backgrounds of bicyclists. It proposes a more equitable distribution of bike network facilities by targeting improvements in locations that have lacked bike facilities but have disproportionate levels of traffic fatalities and injuries. It recognizes that different user groups have varying comfort levels using on- and off-street bike facilities and sometimes it is necessary to create facilities in parallel corridors. For example, some bicyclists who are more experienced may prefer bike lanes rather than multi-use trails because bike lanes allow more direct access to destinations than multi-use trails could provide. On the other hand, less experienced bicyclists may prefer the slower speeds and lack of auto traffic on multi-use trails.

The 2024 BTFP supports safety by prioritizing safer bike facilities and safer crossings in areas with disproportionately higher rates of bike and pedestrian fatalities and injuries (i.e., the HFIN maps) as well as areas with persons who are more dependent on walking, biking, and transit for everyday transportation needs. It incorporates FHWA best practices for proven safety countermeasures and aligns with recently-adopted policies such as Vision Zero.

The 2024 BTFP supports general welfare by creating a more equitable and sustainable network of bike facilities. It encourages biking not only for recreation and fitness but for all transportation purposes as an economically and environmentally sustainable transportation mode. It emphasizes the short-term implementation of on-street bike facilities through programs such as the Annual Complete Streets Maintenance Program to more quickly build a bike network that is both useful and safe.

13. Representatives of all Neighborhood Associations that are on file with the Office of Neighborhood Coordination (ONC) were notified of a final informational meeting that was held Tuesday, May 14, 2024, 6 - 7 pm via Zoom.
14. The 2024 BTFP Project Team held an online Zoom meeting to answer questions and spread awareness about the public review draft of the plan. The meeting was recorded and posted online, which was open to public comment from April 22, 2024 through May 31, 2024. Comments and concerns were addressed during the meeting. No additional comments were received following the posted May 14, 2024 Zoom meeting.
15. All Neighborhood Representatives were notified of the July 18, 2024 hearing as required by Integrated Development Ordinance (IDO) IDO §14-16-6-7(B) Adoption or Amendment of Facility Plan.
16. Written comments were received from community groups, representatives, and their members: Active Living Workgroup, the Greater Albuquerque Active Transportation Committee (GAATC), the Greater Albuquerque Recreational Trails Advisory Committee (GARTC), the President of BikeABQ, and the BikeABQ Board of Directors and group members. The five letters were in support of both the adoption and implementation of the 2024 BTFP. There is no known opposition as of this writing.
17. A total of seven Agencies responded to a request for comment.
  - Both the Bernalillo County Planning & Development Services and Public Service Company of New Mexico (PNM) support the adoption of 2024 BTFP.
  - CABQ Solid Waste indicated that any added vertical separation will cause challenges for residents putting out trash and recycle carts since these bins would no longer be serviceable if the wheels weren't allowed against the curb. Although the Plan does not recommend implementing separated bike lanes on residential streets—proposed bikeway projects will be on larger streets with higher vehicle volumes and speeds.
  - NMDOT asked that any potential impacts to NMDOT facilities from the 2024 BTFP be discussed with the District 3 Assistant Engineer. Proposed facilities on NMDOT roadways follow NMDOT Bike Plan recommendations or match existing NMDOT proposed plans. Additionally, the 2024 BTFP states that if a project falls within the NMDOT area or ROW, the City must coordinate with NMDOT as part of the design phase with internal/external coordination as needed before implementation.
  - Additional comments were general notes for communication during planning of any proposed project.

#### RECOMMENDED CONDITIONS OF APPROVAL – RZ-2024-00032 – Amendment of Facility Plan

1. The applicant shall coordinate with the staff planner to ensure that all Conditions of Approval are met and then submit a vetted, final version to the staff planner for filing at the Planning Department.
2. The number of evaluation criteria and verbiage on page 95 of the 2024 BTFP document shall match that which is used in Tables 17 and 18.
3. Solid Waste shall be consulted for any project incorporating separated bikeway designs especially where trash and recycle carts are stationed for pickup.

4. If a project falls within the NMDOT area or ROW, the City shall coordinate with NMDOT as part of the design phase with internal/external coordination as needed before implementation.
5. Any related future development shall comply with the General Regulations of the IDO and all other applicable design regulations, and be subject to collaboration with other City of Albuquerque Departments/ Offices and appropriate Agencies except as specifically approved by the EPC.
6. A legend shall be added to Figure 7 (page 40) and Figure 8 (page 41) labeling the mapped color scheme and associated bikeway features.

Sincerely,

*Megan Jones*

for Alan M. Varela,  
Planning Director

AV/CH/RM/MJ

CC: DMD, Director, JenniferTurner@cabq.gov  
DMD, PRD, vhermanson@cabq.gov  
Toole Design, asussman@tooledesign.com  
Ronald Bohannon, 5571 Midway Park Place, Albuquerque, NM 87109  
Larisa Chavez, lcrippenchavez@gmail.com  
Dante Gonzales, danteG48@yahoo.com  
Renee Horvath, aboard111@gmail.com  
Carlos A Michelén-Strofer, c.michelen.strofer@gmail.com  
Keith Morris, keithmorrisnm@gmail.com  
Keith Stubbs, 305 Carlisle Blvd SE, Albuquerque, NM 87106  
Erin Thornton, erinthorn2000@att.net  
Ralph Wrons, (City Council D7), 8605 Bellehaven Ave NE, Albuquerque, NM 87112  
Legal, [Acoon@cabq.gov](mailto:Acoon@cabq.gov)  
EPC file

ABQ Park NA, shirleylockyer@gmail.com  
ABQ Park NA, tiffany.m1274@gmail.com  
ABQCore NA, abqcorena@gmail.com  
ABQCore NA, ken@cbm-wellness.com  
ABQCore NA, pcandelaria@gmail.com  
Academy Estates East NA, dukecity777@yahoo.com  
Academy Estates East NA, lepope@msn.com  
Academy Hills Park NA, academyhillsparkna@gmail.com  
Academy Hills Park NA, Chipolson44@gmail.com  
Academy Hills Park NA, nwaslosky@comcast.net  
Academy North NA, adamjwar@hotmail.com  
Academy North NA, annapresident505@gmail.com  
Academy North NA, dwehling@outlook.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 11 of 18

Academy Ridge East NA, arena87111@gmail.com  
Academy Ridge East NA, arnoldtom@yahoo.com  
Academy Ridge East NA, ellielw@comcast.net  
Alamosa NA, jeanettebaca973@gmail.com  
Alamosa NA, jgallegoswccdg@gmail.com  
Altura Addition NA, archhero@aol.com  
Altura Addition NA, wright.js@gmail.com  
Altura Park NA, alturapark@gmail.com  
Altura Park NA, nspero@phs.org  
Altura Park NA, rajackso@msn.com  
Alvarado Gardens NA, medexter49@gmail.com  
Alvarado Gardens NA, president@alvaradoneighborhood.com  
Alvarado Park NA, elissa.dente@gmail.com  
Alvarado Park NA, marybe9@gmail.com  
Antelope Run NA, alexlrnm@comcast.net  
Antelope Run NA, antelope.run.abq@gmail.com  
Antelope Run NA, kfabiszak@sbcglobal.net  
Arroyo Del Oso North NA, adonneighborhood@gmail.com  
Arroyo Del Oso North NA, sdarling8713@gmail.com  
Arroyo Del Oso North NA, willieorr1@msn.com  
Barelas NA, barelasna505@gmail.com  
Barelas NA, bna@seanpotter.co  
Barelas NA, gcolts66@outlook.com  
Bear Canyon NA, bstone@yahoo.com  
Bear Canyon NA, patsybeck@aol.com  
BelAir NA, board@bananm.org  
BelAir NA, flops2@juno.com  
BelAir NA, ions82@hotmail.com  
Campus NA, calmartin93@gmail.com  
Campus NA, campus.neighborhood.assoc@gmail.com  
Campus NA, kenny.stansbury@gmail.com  
Cherry Hills Civic Association, k2riley@msn.com  
Cherry Hills Civic Association, rvaughn.rv@gmail.com  
Cibola Loop NA, gforrest47@comcast.net  
Cibola Loop NA, learrael@aol.com  
Cibola NA, josefree@yahoo.com  
Cibola NA, michael.alexander@altadt.com  
Cielito Lindo NA, clna87111@gmail.com  
Cielito Lindo NA, khattler@aol.com  
Cielito Lindo NA, pat.duda.52@gmail.com  
Citizens Information Committee of Martineztown, cicm-na@comcast.net  
Citizens Information Committee of Martineztown, kris042898@icloud.com  
Citizens Information Committee of Martineztown, martinez.renee@gmail.com  
Clayton Heights Lomas del Cielo NA, boyster2018@gmail.com  
Clayton Heights Lomas del Cielo NA, e\_molinadodge@yahoo.com  
Comanche Foothills NA, alldirectors@comanchefoothills.org  
Comanche Foothills NA, president@comanchefoothills.org

Comanche Foothills NA, vicepresidente@comanchefoothills.org  
Crestview Bluff Neighbors Association, alotero57@gmail.com  
Crestview Bluff Neighbors Association, crestviewneighbors@outlook.com  
Del Norte NA, fourofseven@comcast.net  
Del Norte NA, white1ink@aol.com  
Del Webb Mirehaven NA, adabneymmxix@gmail.com  
Del Webb Mirehaven NA, dwmnanm@gmail.com  
Del Webb Mirehaven NA, mnietoshogry@gmail.com  
Delamar NA, dmmarz@gmail.com  
Delamar NA, susanpatcarroll@gmail.com  
District 4 Coalition of NA, sedueweke@juno.com  
District 4 Coalition of NA, smgriffie@noreste.org  
District 4 Coalition of NA, ssec.dist4@gmail.com  
District 6 Coalition of NA, sinfo@willsonstudio.com  
District 6 Coalition of NA, sm.ryankious@gmail.com  
District 7 Coalition of NA, sjearnoldjones70@gmail.com  
District 7 Coalition of NA, smikekious@aol.com  
District 8 Coalition of NA, sdistrict8coalition@gmail.com  
District 8 Coalition of NA, sidalia1t@gmail.com  
District 8 Coalition of NA, slamesainternationaldistrict@gmail.com  
District 8 Coalition of NA, snobullbob1@gmail.com  
District 9 East Gateway Coalition, dreikeja@comcast.net  
District 9 East Gateway Coalition, eastgatewaycoalition@gmail.com  
Downtown Neighborhoods Association, lsenn@sbcglobal.net  
Downtown Neighborhoods Association, sylvia4quality@gmail.com  
Eastrange Piedra Vista NA, erpvaabq@gmail.com  
Eastrange Piedra Vista NA, jrsphil1@hotmail.com  
Eastrange Piedra Vista NA, robertdebra4055@gmail.com  
Eastridge NA, tgrasmussen@msn.com  
Eastridge NA, verrityg@yahoo.com  
EDo NA, Incorporateddavid@edoabq.com  
EDo NA, Incorporatedi robertson@titan-development.com  
Elder Homestead NA, elderhomesteadna@gmail.com  
Elder Homestead NA, m.ryankious@gmail.com  
Elder Homestead NA, sp-wonderwoman@comcast.net  
Embudo Canyon NA, dreikeja@comcast.net  
Embudo Canyon NA, ecnainabq@gmail.com  
Embudo Canyon NA, jhardgrave505@gmail.com  
Fair West NA, abqfairwest@gmail.com  
Fair West NA, nick@127tech.net  
Fair West NA, Turner.katherine@outlook.com  
Four Hills Village Association, fhvapres@gmail.com  
Four Hills Village Association, herbwright@peoplepc.com  
Gavilan Addition NA, bhaskins1@aol.com  
Gavilan Addition NA, slernst@aol.com  
Glenwood Hills NA, james.levy@gmail.com  
Glenwood Hills NA, woody761@yahoo.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 13 of 18

Greater Gardner & Monkbridge NA, ggnaabq@gmail.com  
Greater Gardner & Monkbridge NA, ijwalkiw@hotmail.com  
Greater Gardner & Monkbridge NA, wood\_cpa@msn.com  
Heritage East Association of Residentshear.president@gmail.com  
Heritage East Association of Residents, realtyofnewmexico@gmail.com  
Heritage East Association of Residents, willpawl@msn.com  
Highland Business and NA, Incorporatedhallierossbach@gmail.com  
Highland Business and NA, Incorporatedhbanahighland@gmail.com  
Highland Business and NA, Incorporatedomardurant@yahoo.com  
Highlands North NA, emh@adexec.com  
Highlands North NA, reynolds@unm.edu  
Historic Old Town Association, president@albuquerqueoldtown.com  
Historic Old Town Association, secretary@albuquerqueoldtown.com  
Historic Old Town Associationzoning@albuquerqueoldtown.com  
Hodgin NA, austenwalsh@gmail.com  
Hodgin NA, malloryabq@msn.com  
Hoffmantown NA, padamsko@hotmail.com  
Hoffmantown NA, smurfmom@comcast.net  
Huning Castle NA, brenda.marks648@gmail.com  
Huning Castle NA, debzallen@ymail.com  
Huning Castle NA, hcnaalert@gmail.com  
Huning Highland Historic District Associationannlouisacarson@gmail.com  
Huning Highland Historic District Associationbsturge@gmail.com  
Indian Moon NA, lmartin900@aol.com  
Indian Moon NA, ronzawis@abq.com  
Inez NA, donna.yetter3@gmail.com  
Inez NA, inezneighassn@yahoo.com  
Inez NA, yemaya@swcp.com  
Jerry Cline Park NA, bluestealth93@gmail.com  
Jerry Cline Park NA, ericshirley@comcast.net  
John B Robert NA, johnb.robertna@comcast.net  
John B Robert NA, larswells@yahoo.com  
John B Robert NA, suzy0910@comcast.net  
Juan Tabo Hills NA, andrea\_pentell@hotmail.com  
Juan Tabo Hills NA, richtriple777@msn.com  
Kirtland Community Associationbakieaikin@comcast.net  
Kirtland Community Associationkande0@yahoo.com  
Knapp Heights NA, dwillems2007@gmail.com  
Knapp Heights NA, valerie4nm@live.com  
La Mesa Community Improvement Association5058041113rw@gmail.com  
La Mesa Community Improvement Associationidalialt@gmail.com  
La Mesa Community Improvement Associationlamesainternationaldistrict@gmail.com  
La Sala Grande NA, Incorporatedkellypetre@gmail.com  
La Sala Grande NA, Incorporatedlsгна67@gmail.com  
Ladera West NA, heckert@swcp.com  
Ladera West NA, laderawestna@gmail.com  
Ladera West NA, slcnalbq@aol.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 14 of 18

Las Lomitas NA, annes@swcp.com  
Las Lomitas NA, laslomitasNA@gmail.com  
Las Lomitas NA, r.griego04@comcast.net  
Las Terrazas NA, dvoth@uark.edu  
Las Terrazas NA, lasterrazasna@yahoo.com  
Las Terrazas NA, steidley@centurylink.net  
Laurelwood NA, laurelwoodna@gmail.com  
Laurelwood NA, wiseolga@gmail.com  
Lee Acres NA, abroyer1@msn.com  
Lee Acres NA, nissapatterson@gmail.com  
Loma Del Rey NA, jarmijo12@outlook.com  
Loma Del Rey NA, oronacarol@hotmail.com  
Los Altos Civic Associationathenalaroux@yahoo.com  
Los Altos Civic Associationdarlenesolis.laca@gmail.com  
Los Altos Civic Associationlosaltosneighborhood.abq@gmail.com  
Los Duranes NA, billherring@comcast.net  
Los Duranes NA, lee@lganm.com  
Los Duranes NA, losduranesneighborhood@gmail.com  
Los Griegos NA, lgna505abq@gmail.com  
Los Griegos NA, losgriegosna2022@gmail.com  
Los Griegos NA, marybethorn@gmail.com  
Los Poblanos NA, don.newman@mac.com  
Los Poblanos NA, kjboutz@gmail.com  
Los Poblanos NA, mail@lospoblanosna.com  
Los Volcanes NA, douglascooper@hotmail.com  
Los Volcanes NA, nedcarla@live.com  
Mark Twain NA, bardean12@comcast.net  
Mark Twain NA, joel.c.wooldridge@gmail.com  
Matthew Meadow NA, Incorporatedhenryksloma@gmail.com  
Matthew Meadow NA, Incorporatedmatthewmeadowna@gmail.com  
Matthew Meadow NA, Incorporatedstaborel@q.com  
McDuffie Twin Parks NA, carolamorris@aol.com  
McDuffie Twin Parks NA, drakelavellefamily@gmail.com  
McDuffie Twin Parks NA, mtpassociation@gmail.com  
McKinley NA, jesselholly@gmail.com  
McKinley NA, lucerowilfred@gmail.com  
McKinley NA, mckinleyneighbor@gmail.com  
Mesa Del Sol NA, catburns87106@gmail.com  
Mesa Del Sol NA, dmills544@gmail.com  
Mile Hi NA, jbd2946@hotmail.com  
Mile Hi NA, mbcarr92@gmail.com  
Molten Rock NA, jillyeagley@swcp.com  
Molten Rock NA, vigilm75@hotmail.com  
Mossman NA, maryasenal@gmail.com  
Mossman NA, mossmanneighborhoodassociation@gmail.com  
Mossman NA, Mr.CraigDegenhardt@gmail.com  
Near North Valley NA, hnorfleet009@gmail.com



OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 15 of 18

Near North Valley NA, jsabatini423@gmail.com  
Near North Valley NA, nearnorthvalleyna@gmail.com  
Netherwood Park NA, netherwoodpark@gmail.com  
Netherwood Park NA, saramills@comcast.net  
Netherwood Park NA, wgannon@unm.edu  
Nob Hill NA, chrisafaith@icloud.com  
Nob Hill NA, meyster1@me.com  
Nob Hill NA, theboard@nobhill-nm.com  
Nor Este NA, rpmartinez003@gmail.com  
Nor Este NA, uri.bassan@noreste.org  
North Campus NA, maiamullen@gmail.com  
North Campus NA, northcampusna@gmail.com  
North Campus NA, tdavisnm@gmail.com  
North Domingo Baca NA, hhowerton9379@msn.com  
North Domingo Baca NA, judiepellegrino@gmail.com  
North Eastern Association of ResidentsAburnett505@gmail.com  
North Eastern Association of ResidentsMMuddpi@gmail.com  
North Eastern Association of Residentsnear.neighborhood@gmail.com  
North Valley Coalitionjasalazarm@gmail.com  
North Valley Coalitionnvcabq@gmail.com  
North Valley Coalitionpeggynorton@yahoo.com  
Ocate NA, alexanderrahimi@yahoo.com  
Ocate NA, president@onatenighborhood.org  
Ocate NA, sharonr1492@gmail.com  
Oso Grande NA, info@osograndena.org  
Oso Grande NA, janiemc07@gmail.com  
Oso Grande NA, nobullbob1@gmail.com  
Paloma Del Sol NA, bob.mcelearney@yahoo.com  
Paloma Del Sol NA, rq1dq1@gmail.com  
Palomas Park NA, annwagner10@gmail.com  
Palomas Park NA, palomaspark@gmail.com  
Palomas Park NA, wmarsh7@comcast.net  
Paradise Hills Civic Association, elizabethkayhaley@gmail.com  
Paradise Hills Civic Association, kym.fleck@gmail.com  
Paradise Hills Civic Association, phcassoc@gmail.com  
Parkland Hills NA, peterkalitsis@gmail.com  
Parkland Hills NA, phnacommunications@gmail.com  
Parkway NA, parkwaypoint@yahoo.com  
Pat Hurley NA, julieradoslovich@gmail.com  
Pat Hurley NA, president.phna@gmail.com  
Pat Hurley NA, vicepresident.phna@gmail.com  
Peppertree Royal Oak Residents Association, a.verardo@comcast.net  
Peppertree Royal Oak Residents Association, jnapacheco@gmail.com  
Piedras Marcadas NA, debbie.a.koranyi@gmail.com  
Piedras Marcadas NA, pmnaabq@gmail.com  
Piedras Marcadas NA, rlawlor619@gmail.com  
Pueblo Alto NA, auntiesym@msn.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 16 of 18

Pueblo Alto NA, panaabq@gmail.com  
Pueblo Alto NA, tyler.richter@gmail.com  
Quaker Heights NA, lillog2002@yahoo.com  
Quaker Heights NA, valarid@gmail.com  
Quigley Park NA, lisa.whalen@gmail.com  
Quigley Park NA, mo01llama@gmail.com  
Quigley Park NA, quigley.park@gmail.com  
Quintessence NA, president@qna-abq.org  
Quintessence NA, qna.abq@gmail.com  
Rancho Sereno NA, aschwartz74@comcast.net  
Rancho Sereno NA, board@abqrsna.com  
Rancho Sereno NA, debracox62@comcast.net  
Raynolds Addition NA, janet.manry@gmail.com  
Raynolds Addition NA, perego.mauro@gmail.com  
Raynolds Addition NA, raynoldsneighborhood@gmail.com  
Rio Grande Boulevard NA, chowski83@gmail.com  
Rio Grande Boulevard NA, newmexmba@aol.com  
Riverview Heights NA, djclink2@msn.com  
Riverview Heights NA, tollhouse1@msn.com  
Route 66 West NA, cherquezada@yahoo.com  
Route 66 West NA, paulfava@gmail.com  
Sandia High School Area NA, john.l.jones.nm@gmail.com  
Sandia High School Area NA, mikekious@aol.com  
Santa Barbara Martineztown NA, lnjalopez@msn.com  
Santa Barbara Martineztown NA, salamdezia@gmail.com  
Santa Barbara Martineztown NA, sbmartineztown@gmail.com  
Santa Fe Village NA, ijlibretto@gmail.com  
Santa Fe Village NA, joannewright1949@gmail.com  
Santa Fe Village NA, sfvna2014@gmail.com  
Sawmill Area NA, browne.amanda.jane@gmail.com  
Sawmill Area NA, mari.kempton@gmail.com  
Sawmill Area NA, sawmillneighbor@gmail.com  
Siesta Hills NA, franchini3@gmail.com  
Siesta Hills NA, jolsen1204@gmail.com  
Siesta Hills NA, siesta2na.pres@gmail.com  
Siesta Hills NA, siesta2napres@gmail.com  
Silver Hill NA, evarockstar@msn.com  
Silver Hill NA, ja.montalbano@gmail.com  
Silver Hill NA, silverhillabq@gmail.com  
Singing Arrow NA, 123mbeck@gmail.com  
Singing Arrow NA, abqsana@gmail.com  
Singing Arrow NA, sasdelgado748@gmail.com  
South Broadway NA, abqsbna@gmail.com  
South Broadway NA, fparmijo@gmail.com  
South Broadway NA, onastine@gmail.com  
South Guadalupe Trail NA, jasalazarnm@gmail.com  
South Guadalupe Trail NA, nicgonzales0218@gmail.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 17 of 18

South Los Altos NA, contact@slananm.org  
South Los Altos NA, debsla@swcp.com  
South Los Altos NA, notices@slananm.org  
South San Pedro NA, tallest@gmail.com  
South San Pedro NA, tmienterprises1@gmail.com  
South West Alliance of Neighborhoods (SWAN Coalition), gerulibbarri1@gmail.com  
South West Alliance of Neighborhoods (SWAN Coalition), housealbchrome@gmail.com  
Southeast Heights NA, jpate@molzencorbin.com  
Southeast Heights NA, pmbdoc@yahoo.com  
Southeast Heights NA, sehna.membership@gmail.com  
Spruce Park NA, emailbrowns@aol.com  
Spruce Park NA, pnsswift@comcast.net  
Stardust Skies Park NA, lovelyypeake@comcast.net  
Stardust Skies Park NA, mateo.stratton@gmail.com  
Stinson Tower NA, epchavez49@gmail.com  
Stinson Tower NA, rizzierinm@gmail.com  
Stinson Tower NA, stnapres@outlook.com  
Stronghurst Improvement Association Inc, 63aberdaber@gmail.com  
Stronghurst Improvement Association Inc, aberdaber@comcast.net  
Stronghurst Improvement Association Inc, wqsabatini@gmail.com  
Summit Park NA, jen.esquibel@gmail.com  
Summit Park NA, joebrooks@homesinabq.com  
Summit Park NA, summitparkNA@gmail.com  
Supper Rock NA, admin@supper-rock.org  
Supper Rock NA, kmotheirish@gmail.com  
Supper Rock NA, srock692@comcast.net  
Sycamore NA, mabdowa@gmail.com  
Sycamore NA, mg411@q.com  
Sycamore NA, richard@vigliano.net  
Taylor Ranch NA, aboard111@gmail.com  
Taylor Ranch NA, president@trna.org  
Taylor Ranch NA, rioreal@earthlink.net  
The Courtyards NA, jackiecooke@comcast.net  
The Courtyards NA, jaubele1012@comcast.net  
The Courtyards NA, thecourtyardsabq@gmail.com  
The Quail Springs NA, gstone@swcp.com  
The Quail Springs NA, laurah067@gmail.com  
Thomas Village NA, daniwammy@gmail.com  
Thomas Village NA, jwierzba@comcast.net  
Tres Volcanes NA, info@tresvolcanesna.org  
Tres Volcanes NA, randm196@gmail.com  
Tres Volcanes NA, t0m2pat@yahoo.com  
Tuscany NA, hlhen@comcast.net  
Tuscany NA, tuscanylandscape@me.com  
Tuscany NA, vistadelnorte@me.com  
University Heights NA, info@uhanm.org  
University Heights NA, mandy@theremedaydayspa.com

OFFICIAL NOTICE OF DECISION

PR-2024-010493

July 18, 2024

Page 18 of 18

University Heights NA, sricdon@earthlink.net  
Valle Prado NA, jlbeutler@gmail.com  
Valle Prado NA, valle.prado.na@gmail.com  
Vecinos Del Bosque NA, drewjara72@gmail.com  
Vecinos Del Bosque NA, vdb87105@gmail.com  
Victory Hills NA, altheatherton@gmail.com  
Victory Hills NA, info@willsonstudio.com  
Victory Hills NA, victoryhills505@gmail.com  
Vineyard Estates NA, djesmeek@comcast.net  
Vineyard Estates NA, vineyardestates.na@gmail.com  
Vineyard Estates NA, zarecki@aol.com  
Vista Del Mundo NA, ccrum.vdm@gmail.com  
Vista Del Mundo NA, dproach@sandia.gov  
Vista Del Norte Alliance, jamessouter@msn.com  
Vista Del Norte Alliance, tuscanylandscape@me.com  
Vista Del Norte Alliance, vistadelnorte@me.com  
Vista Grande NA, bradyklovelady@gmail.com  
Vista Grande NA, Schaefer@unm.edu  
Vista Magnifica Association, beatfeet17@yahoo.com  
Vista Magnifica Association, madmiles@msn.com  
Wells Park NA, doreenmcknightnm@gmail.com  
Wells Park NA, edwina.kiro@yahoo.com  
Wells Park NA, wellsparkna@gmail.com  
West Mesa NA, housealbchrome@gmail.com  
West Mesa NA, westmesa63@gmail.com  
West Mesa NA, westmesaneighborhoodassociation@googlegroups.com  
West Old Town NA, g.clarke45@comcast.net  
West Old Town NA, rnorman@sunpinehomes.com  
West Old Town NA, westoldtownna@gmail.com  
West Park NA, ceallearch1@gmail.com  
West Park NA, melvin.andrewsrn@gmail.com  
West Park NA, westparkna@gmail.com  
Westgate Heights NA, mattearchuleta1@hotmail.com  
Westgate Heights NA, navrmc6@aol.com  
Westgate Heights NA, westgate9901@gmail.com  
Westside Coalition of NAs, aboard111@gmail.com  
Westside Coalition of NAs, elizabethkayhaley@gmail.com  
Wildflower Area NA, ggarcia103@comcast.net  
Wildflower Area NA, kbbh@hotmail.com  
Yale Village NA, donaldlove08@comcast.net  
Yale Village NA, klove726@gmail.com  
Yale Village NA, yalevillage@comcast.net



## Environmental Planning Commission

**Agenda Number: 2**  
**Project #: 2024-010493**  
**Case #: RZ-2024-00032**  
**Hearing Date: July 18, 2024**

### Staff Report

<b>Applicant</b>	City of Albuquerque, Department of Municipal Development
<b>Request</b>	Review and recommendation of 2024 Bikeway & Trail Facilities Plan (BTFP)
<b>Legal Description</b>	Citywide
<b>Location</b>	Citywide
<b>Size</b>	Citywide
<b>Existing Zoning</b>	All City Zoning

#### Staff Recommendation

That a recommendation of APPROVAL be forwarded to the City Council for Project # 2024-010493, Case # RZ-2024-00032 based on recommended Findings 1-17 and subject to the recommended Conditions of Approval 1-5.

Staff Planners

Robert Messenger, Senior Planner  
Catherine Heyne, Planner

#### Summary of Analysis

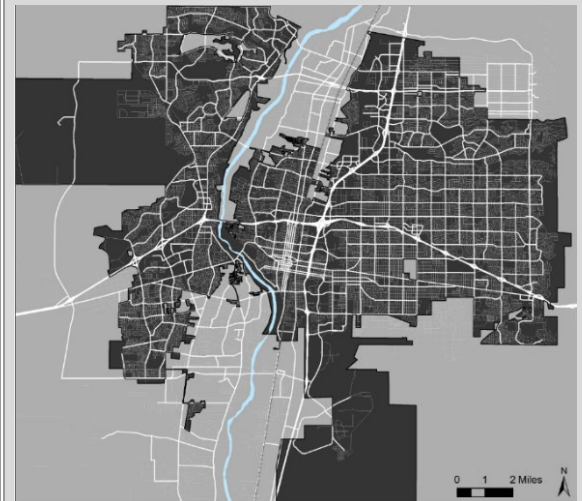
This request is for the EPC to review and make a recommendation to the City Council on the proposed 2024 Bikeway & Trail Facilities Plan (BTFP; the “2024 BTFP”), an amendment to the 2015 BTFP. The 2024 BTFP is a citywide, Rank 2 Facility Plan that guides the selection of bike-related policies and projects in the City of Albuquerque.

The applicant has adequately justified the request pursuant to the Integrated Development Ordinance (IDO) 14-16-6-7(B) Adoption or Amendment of Facility Plan.

All neighborhood organizations within the City of Albuquerque were notified as required. An online, citywide meeting was held May 14, 2024 and posted for review and comment. No comments were received.

Five letters of support from community groups were received. Two agencies responded in support to a request for comment; two agencies asked to be included in future project coordination. There is no known opposition to the request.

#### Map



## ***Table of Contents***

<b>I. INTRODUCTION .....</b>	<b>1</b>
REQUEST .....	1
EPC ROLE .....	1
HISTORY/BACKGROUND .....	1
CONTEXT .....	2
ROADWAY SYSTEM .....	3
BIKEWAYS / TRAILS .....	3
TRANSIT .....	3
<b>II. ANALYSIS OF CITY PLANS AND ORDINANCES .....</b>	<b>3</b>
ALBUQUERQUE / BERNALILLO COUNTY COMPREHENSIVE PLAN (RANK 1) .....	3
<i>Applicable Goals and Policies</i> .....	4
INTEGRATED DEVELOPMENT ORDINANCE (IDO) .....	11
<i>Definitions</i> .....	11
RANK 2 FACILITY PLANS .....	12
ADOPTION OR AMENDMENT OF FACILITY PLAN .....	12
<i>Requirements</i> .....	12
<i>Justification &amp; Analysis</i> .....	13
6-7(B)(3)(a) .....	13
6-7(B)(3)(b) .....	13
6-7(B)(3)(c) .....	15
<b>III. AMENDMENT OF FACILITY PLAN .....</b>	<b>16</b>
OVERVIEW & PURPOSE .....	16
PROPOSED FACILITY PLAN AMENDMENT .....	17
<i>Discussion/Analysis</i> .....	17
<i>Staff Recommendations</i> .....	19
<b>IV. AGENCY AND NEIGHBORHOOD CONCERNS .....</b>	<b>19</b>
REVIEWING AGENCIES .....	19
NEIGHBORHOOD/PUBLIC .....	19
<b>V. CONCLUSION .....</b>	<b>20</b>
 <b>FINDINGS, AMENDMENT OF FACILITY PLAN .....</b>	 <b>21</b>
<b>RECOMMENDATION .....</b>	<b>31</b>
<b>RECOMMENDED CONDITIONS OF APPROVAL .....</b>	<b>32</b>
<b>AGENCY COMMENTS .....</b>	<b>43</b>

**ATTACHMENTS**

<b>A) HISTORY .....</b>	<b>A</b>
<b>B) APPLICATION INFORMATION .....</b>	<b>B</b>
<b>C) STAFF INFORMATION .....</b>	<b>C</b>
<b>D) PUBLIC NOTICE .....</b>	<b>D</b>
<b>E) PUBLIC INFORMATION MEETING REPORT .....</b>	<b>E</b>
<b>F) PUBLIC COMMENT .....</b>	<b>F</b>
<b>G) PROPOSED 2024 BIKEWAY &amp; TRAIL FACILITIES PLAN .....</b>	<b>G</b>

## ***I. Introduction***

### ***Request***

The request is for an Amendment of Facility Plan – EPC to the 2015 Bikeways and Trails Facilities Plan (2015 BTFP). The amendment would facilitate the adoption of the 2024 Bikeway and Trail Facilities Plan (2024 BTFP), which is a Rank 2 Facility Plan that provides direction for the City’s infrastructure investments. It is also a mechanism for implementing the Comprehensive Plan Goals and Policies – specifically for bikeways and trail facilities within the City.

Consistent with requirements of the IDO’s procedures for the Amendment of Facility Plan, the City of Albuquerque Department of Municipal Development (DMD) transmitted the citywide 2024 Bikeway & Trail Facilities Plan (2024 BTFP; the “2024 Plan”) to the Environmental Planning Commission (EPC) for review and recommendation to the City Council.

### ***EPC Role***

The EPC is the Review and Recommending Body for the Adoption or Amendment of a Facility Plan pursuant to IDO §14-16-6-7(B). Consequently, the EPC shall conduct a public hearing on the application for the 2024 BTFP and shall make a recommendation to the City Council on the application. The City Council is the final decision-making body, whose decision cannot be appealed. This case is a legislative matter.

### ***History/Background***

Beginning in the early 1970s, the City made a concerted effort to make biking more possible with a proposed citywide network of bikeways beginning with the collaboration between the City’s Planning Department and an ad hoc Bikeway Advisory Committee and publication of The Bikeway Study in March 1974. This collaboration led to the Bikeways Master Plan which was adopted by the City and Bernalillo County. Since then, plans and documents have addressed different aspects of various trail development.

The Trails & Bikeways Facility Plan was first adopted in July 1993 as a Rank 2 Plan and amended in November of 1996 (R-308, 100-1993). The vision of the 1993 plan was to establish long-range policies for off-street trails and bicycle facilities that served both recreational and commuting purposes within the Albuquerque Metropolitan Planning Area (AMPA). This was adopted by both the City and County.

In late 1996, the Department of Municipal Development initiated the Albuquerque Comprehensive On-Street Bicycle Plan to more closely investigate on-street bikeways based on a recommendation in the Trails & Bikeways Facility Plan. This plan was adopted in 2000 (R-115, 112-2000) to be met by 2020 and to establish a comprehensive on-street network to make cycling a more viable transportation option.



The Greater Albuquerque Bicycling Advisory Committee (GABAC), now the Greater Albuquerque Active Transportation Committee, and the Greater Albuquerque Recreational Trails Committee (GARTC) were established by City ordinance in 1994 to advise governmental agencies on planning, projects, and programs affecting bicyclists and other trail users (established by [§2-6-15](#), revised by [O-21-63](#), D-2021-015).

In 1998, the Metropolitan Transportation Plan (MTP) for the Albuquerque area was adopted, at which time, it was noted that a variety of transportation modes should be considered and not just the automobile. Every four years the Mid-Region Metropolitan Planning Organization (MPO) updates the Metropolitan Transportation Plan (MTP) to guide the development of the Albuquerque Metropolitan Planning Area (AMPA) transportation system.

The state-level New Mexico Bicycle / Pedestrian / Equestrian (BPE) Advisory Plan was completed in 1996 and adopted in 2009. This plan establishes statewide strategies and recommendations for alternative modes of transportation. The NM Bike Plan focuses on the right-of-way owned and maintained by the New Mexico Department of Transportation (NMDOT). In 2011, the Long Range Bikeway System Plan (LRBSP) mapped existing and proposed bike facilities within AMPA. This plan was adopted by the Metropolitan Transportation Board as part of the 4-year Metropolitan Transportation Plan update cycle. In 2012, Bernalillo County adopted the Pedestrian and Bicycle Safety Action Plan, which more specifically identified and prioritized projects to address non-motorized facilities in the County.

The City of Albuquerque adopted the Bikeways and Trails Facility Plan in 2015 (F/S R-14-142, R-2015-045). This plan combined and updated the City's Trails and Bikeways Facility Plan (1993) and the Comprehensive On-Street Bicycle Plan (2000) to more easily manage and promote a well-connected and safer non-motorized transportation system for on-street bikeways and multi-use trails. Since the adoption of this plan in 2015, major new policies and regulatory documents have come into effect at all levels of government.

### ***Context***

The proposed 2024 Bikeway & Trail Facilities Plan (2024 BTFP) is for the City of Albuquerque as well as unincorporated areas of the City between Rio Bravo Boulevard and Alameda Boulevard (see 2024 BTFP, page 18 and Figure 2). The 2024 BTFP "...focus[es] on regional connections that bolster City-led improvements by creating an integrated network...The 2024 Plan is not intended to replace more detailed local plans and defers to those documents for potential improvements to streets in other jurisdictions, such as the Bernalillo County Bicycle and Pedestrian Safety Action Plan."

The City of Albuquerque uses a system of ranked plans, starting with the Rank 1 Comprehensive Plan, which establishes a vision, goals, and overall policies. Lower-ranked plans must comply with the intent, policies, and goals of the higher-ranked plans. The 2024 Facility Plan is a Rank 2 Plan and provides policy guidance for the City's bikeway and

trail infrastructure investments and is a mechanism for implementing the Comprehensive Plan.

The 2024 BTFP is consistent with the requirements of IDO §14-16-6-7(B) for citywide Rank 2 plan amendment and adoption.

The update was initiated in the summer of 2022 when the Departments of Municipal Development (DMD) and Parks and Recreation (PRD) noted many inconsistencies between the 2015 BTFP, the Comprehensive Plan, and the Development Process Manual (DPM) updates.

After the Environmental Planning Commission reviews the 2024 BTFP and makes a recommendation, the Plan should shall be presented to the City Council within 60 days.

### ***Roadway System***

The Long Range Roadway System (2040 LRRS) map, produced by the Mid-Region Council of Governments (MRCOG), includes existing roadways and future recommended roadways along with their regional role. Because this Rank 2 plan affects all existing and future roads and trails within the City of Albuquerque, individual roads and trails are not listed herein.

### ***Bikeways / Trails***

The Long Range Bikeway System (LRBS) map produced by MRCOG identifies existing and proposed trails.

### ***Transit***

The Mid-Region Council of Governments maintains the Long-Range Transit Network (LRTN), which aims to connect Centers and expand the frequency of transit along Mixed-Use Corridors.

## ***II. Analysis of City Plans and Ordinances***

### ***Albuquerque / Bernalillo County Comprehensive Plan (Rank 1)***

The 2017 Comprehensive Plan (Comp Plan) is the City's long-term vision document to shape land use and zoning decisions as the Rank 1 Master Plan for the City of Albuquerque. Six Guiding Principles represent the most prominent themes voiced by City community members and provide a community- and value-based framework for the Comp Plan. The Comp Plan Vision incorporates community values and aspirations, that also underlie the goals, policies, and actions of each of Comp Plan's ten elements.

The Comp Plan provides goals and policies for each element area to guide private development land use decisions, relevant City and County governing departments, and decision makers as new plans and public investments affecting the whole community are developed. The document is organized around a Centers and Corridors framework.

Other adopted City and County plans are subordinate to and must be consistent with the Comp Plan.

*Applicable Goals and Policies*

Applicable Goals and Policies are listed below. IDO §14-6-6(7)(B) requires that any application for a Facility Plan – EPC be consistent with the spirit and intent of the ABC Comp Plan, as amended, and with other policies and plans adopted by the City Council.

Although Staff generally agreed that all of the Goals and Policies cited in the applicant’s justification letter were consistent with the spirit and intent of the Comp Plan, staff determined that the following Goals and Policies were the most applicable:

- Chapter 5: Goal 5.1 Centers & Corridors and Policy 5.1.11 Multi-Modal Corridors.
- Chapter 6: Goal 6.1 Land Use-Transportation Integration; Goal 6.2 Multimodal System; Policy 6.2.2 Complete Streets; Policy 6.2.5 Bicycle Network; Goal 6.3 Safety; Goal 6.4 Public Health; Policy 6.4.1 Active Transportation; Goal 6.5 Equity; Policy 6.5.1 Equitable Transportation Systems; Goal 6.6 Economy; Goal 6.7 System Effectiveness; and Goal 6.8 Context.
- Chapter 7: Policy 7.6.2 Transportation Infrastructure.
- Chapter 10: Goal 10.2 Parks.
- Chapter 13: Goal 13.5 Community Health.

Staff analysis of applicable Goals and Policies follows:

*CHAPTER 5: LAND USE*

**GOAL 5.1 CENTERS & CORRIDORS:** Grow as a community of strong Centers connected by a multi-modal network of Corridors.

The facility plan amendment could help the City grow as a community that connects strong Centers through a multi-modal network of Corridors that include on- and off-street bicycling facilities. The 2024 BTFP strengthens the ability of both Centers and Corridors to serve the needs of bicyclists because it emphasizes an “all ages and abilities” approach to make biking a more convenient option for those who bike for transportation purposes as well as recreation. By emphasizing low-stress facilities, such as bike boulevards that parallel busier roads (e.g., Multi-Modal Corridors), biking becomes a viable option for new bicyclists and those hesitant to ride with traffic or in bike lanes along busy roads

As part of the prioritization process for proposed bike projects, the request strengthens Centers by giving bike facilities that connect to Centers higher points than those that do not connect to Centers. **The request is consistent with Goal 5.1 Centers & Corridors.**

**POLICY 5.1.11 MULTI-MODAL CORRIDORS:** Design safe, Multi-Modal Corridors that balance the competing needs of multiple modes of travel and become more mixed-use and pedestrian-oriented over time.

The 2024 BTFP supports the design of safe Multi-Modal Corridors that balance the needs of multiple modes of travel. These Corridors are designed to become more mixed-use and pedestrian-oriented over time. Development should be encouraged to include a more mixed use, pedestrian-oriented environment with nearby parallel streets dedicated to serve bicycle travel. Because the 2024 BTFP aims to make biking safer for all users, it avoids placing bike facilities such as bike lanes or sidepaths in places where such facilities would be unsafe for the majority of bicyclists. In their present state, Multi-Modal Corridors are unsafe locations for bike facilities since they concentrate on serving fast-moving and heavy volumes of motorized traffic in locations with frequent driveways for commercial parking lots. **The request is consistent with Policy 5.1.11 Multi-Modal Corridors.**

#### **CHAPTER 6: TRANSPORTATION**

**GOAL 6.1 LAND USE-Transportation Integration:** Plan, develop, operate, and maintain a transportation system to support the planned character of existing and future land uses.

The 2024 BTFP amendment would facilitate the creation of a bike network within the context of a complete transportation system to support the planned character of existing and future land uses as designated by Centers and Corridors in the Comprehensive Plan. A key feature of the 2024 BTFP is an emphasis on improved bikeway and trail crossings, specifically in locations where pedestrian and bike facility crossings should be prioritized to support the planned character of Centers and street elements based on Corridor designations. Additionally, the network attempts to connect people as directly as possible to major community destinations and other low stress bikeways, including multi-use trails. Examples of integration of existing and future transport systems are highlighted in Appendix G: Project Profiles of the 2024 BTFP. **The request is consistent with Goal 6.1 Land Use.**

**GOAL 6.2 MULTI-MODAL SYSTEM:** Encourage walking, biking, and transit, especially at peak-hour commuting times, to enhance access and mobility for people of all ages and abilities.

The 2024 BTFP encourages people of all ages and abilities to choose walking, biking, and transit through improvements to bike and trail facilities as well as intersection improvements of the crossings of these facilities with roads, both of which enhance access and mobility. The 2024 Plan proposes to improve biking and walking comfort and safety by providing barriers between automobile traffic and those using alternative forms of transportation. This can include adding protected hybrid beacons (PHBs) at road crossings. Buffers and other bike facility improvements can

also enhance comfort and access to people of all ages, which can further inspire more people to choose transit since transit trips typically begin with either biking or walking to reach transit stops. With safer bike and trail facilities and intersections, commuters can be more motivated to walk, bike and/or use transit, especially during peak hours. Lastly, the 2024 BTFP proposes policies and programs to encourage mode share shifts, especially during peak-hour commuting times. **The request is consistent with Goal 6.2 Multi-Modal System.**

POLICY 6.2.2 Incorporate Complete Streets concepts and policies into the development, retrofit, and rehabilitation of all transportation infrastructure at all phases, including planning, scoping, design, implementation, and performance monitoring.

The 2024 BTFP incorporates Complete Streets concepts and policies into the development, retrofit and rehabilitation of all phases of transportation infrastructure. It leverages the City's Annual Complete Streets Maintenance program identify opportunities to quickly and cost effectively create on-street bikeways such as a) bike routes through signage and traffic calming, b) restriping bike lanes and/or buffered bike lanes, and/or c) improve substandard existing bike lanes within the curb lines of paved roads. One of the 2024 BTFP recommendations is to enhance the Annual Complete Streets Maintenance Program to include advanced planning for resurfacing needs and inclusive selection criteria for project locations. **The request is consistent with Policy 6.2.2.**

POLICY 6.2.5 BICYCLE NETWORK: Promote an areawide bicycle and trail network for transportation and recreation that emphasizes connections among Centers and safe crossings at intersections.

The 2024 BTFP promotes an areawide bicycle and trail network for transportation and recreational purposes that emphasizes connections among Centers and provides an increased focus on safe intersection crossings. Part of the scoring to evaluate potential bike facilities that was done for the 2024 BTFP update was to evaluate how well bikeways connect to Centers and other community facilities. Those that provide better connectivity and access more Centers and community facilities are scored higher than those that do not. The 2024 BTFP emphasizes the importance of safe intersection crossings by providing a *Bicycle and Trail Crossings Guide*, which was not included in previous plans (for more information, see Appendix J in the 2024 BTFP). **The request is consistent with Policy 6.2.5 Bicycle Network.**

GOAL 6.3 SAFETY: Plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users.

The 2024 BTFP is a guide to plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users. Although the 2024 BTFP intent is to improve conditions for bike travel, bike facility improvements

also support safe access for modes such as walking and transit use. This is because the 2024 BTFP incorporates Vision Zero goals and policies to improve safety, especially for such roadway users as people bicycling or walking.

The 2024 BTFP improves safety for cyclists through street design. The plan recommends bike facilities such as protected bike lanes that follow national best practices that are proven to improve safety. **The request is consistent with Goal 6.3 Safety.**

**GOAL 6.4 PUBLIC HEALTH:** Promote individual and community health through active transportation, noise mitigation, and air quality protections.

The 2024 BTFP promotes individual and community health through promoting active transportation via biking. As the bike mode share increases and motor vehicle mode share use decreases, there will be less noise and air pollution caused by motor vehicles burning fossil fuels. **The request is consistent with Goal 6.4 Public Health.**

**POLICY 6.4.1 ACTIVE TRANSPORTATION:** Promote options and mobility for walking, biking, and other nonmotorized travel.

The 2024 BTFP promotes options and mobility for walking, biking, and other non-motorized travel. The plan recommends safety improvements, especially at intersections of multi-modal trails at major roads, which can encourage more walking trips and other nonmotorized travel, as well as better access for persons using active transportation to reach transit stops because these recommendations improve access to Centers and other key community destinations. The 2024 BTFP plan has several recommendations to encourage biking as a form of active transportation, such as the Esperanza Bicycle Safety Education Center and events like Bike to Wherever Day. **The request is consistent with Policy 6.4.1 Active Transportation.**

**GOAL 6.5 EQUITY:** Expand mobility by providing safe and connected networks for non-auto travel and public transit for low-income and vulnerable populations.

One of the main goals of the 2024 BTFP is to expand mobility for low-income and vulnerable populations by providing safer and better networks for bike and other non-automotive travel modes. Because low-income and vulnerable populations are less likely to own a car (or be able to drive) and more likely to use public transit, bike network improvements in High Fatal and Injury Network (HFIN) high crash areas and vulnerable communities also expand transit mobility. This is because all transit trips begin and end with a non-motorized mode such as biking or walking. In recognition of the disproportionate share of traffic violence experienced in low-income and vulnerable communities, equity was given the highest single evaluation criteria to and weighted at 20% (see Chapter 6, Table 18). **The request is consistent with Goal 6.5.1 Equity.**

**POLICY 6.5.1 EQUITABLE TRANSPORTATION SYSTEMS:** Consider the needs of people of all ages and abilities in the design, construction, and operation of transportation systems.

The 2024 BTFP request makes an “all ages and abilities” approach the main theme in the design, construction, and operation of bike transportation systems. This importance is reflected in the first sentence of the Vision Statement:

*Albuquerque is a city that embraces bicycling by implementing convenient on-street bikeways and paved multi-use trail facilities that enhance safety and appeal to people of all ages, abilities, and backgrounds (underlined for emphasis).*

The first Goal in the 2024 BTFP is to “Increase access to on-street bikeways and multi-use trails for all people in Albuquerque.” One means of increasing access is to prioritize bike infrastructure improvements in areas previously lacking in such facilities or in areas with high social vulnerability.

**The request is consistent with Policy 6.5.1 Equitable Transportation Systems.**

**GOAL 6.6 ECONOMY:** Invest in a transportation system that stimulates and supports job creation and business development and improves the movement of people, goods, and services.

Consistent to the original 2015 BTFP, the bikeway and trail network can continue to be leveraged as an integral part of economic development that helps stimulate and support job creation and business development along routes made more accessible to cycling. Also, providing quality transportation infrastructure citywide is a proven approach to improving access to jobs and services, especially for those without personal vehicle transport.

This request also invests in a transportation system that improves the movement of people, goods, and services by applying appropriate contexts of bikeway facility types derived from the Federal Highway Administration (FHWA) Bikeway Selection Guide and the National Association of City Transportation Officials (NACTO) Urban Bikeway Design Guide and in support of the City’s Vision Zero goals by implementing high-quality facilities that promote user safety and comfort. Additional design guidance and standards are taken from the City of Albuquerque Development Process Manual (DPM) with the 2024 BTFP also recommending revisions to the DPM based on emerging national best practices. The resulting 2024 BTFP suggestions for individual bikeway and trail improvement projects reflect the bikeway infrastructure needed to achieve low-stress conditions for people biking citywide.

**The request is consistent with Goal 6.6 Economy.**

**GOAL 6.7 SYSTEM EFFECTIVENESS:** Implement and maintain an effective and efficient transportation system in a coordinated and cost-effective manner.

This request implements and maintains an effective and efficient bicycle and trailway transportation system in a coordinated and cost-effective manner. Like most cities, the City of Albuquerque is constrained by resource availability that necessitates prioritizing improvements and implementing priority projects. This 2024 BTFP describes the potential means of implementing projects, identifies complementary policy and programmatic actions, and describes potential funding sources for the recommendations that were derived through a data-driven prioritization process. This process considered evaluation criteria that address six key issues (i.e., safety, equity, access, network improvements, level of use, and community input). Identifying these categories for each proposed facility creates an opportunity to better coordinate and implement recommended projects more cost-effectively.

Additionally, the 2024 BTFP coordinates with existing City plans and programs (e.g., Annual Complete Streets Maintenance, Vision Zero, Climate Action Plan) to help further opportunities to quickly build new or improve existing bike infrastructure. Design and development of the 2024 BTFP updates were made with input from city, county, regional, and state level transportation partner agencies and associated programs and documents. These entities helped assist with the bikeway and trail transportation system update for the City of Albuquerque and the region.

Conditions for people biking through the Village of Los Ranchos and unincorporated portions of Bernalillo County between Rio Bravo Blvd and Tramway Blvd outside of the City of Albuquerque jurisdiction were also evaluated for the purposes of developing a better coordinated, efficient, and well-connected network. The overall 2024 BTFP acknowledges the real constraints related to staffing capacity and the financial resources available for implementation, and the approach emphasizes projects with lower costs combined with higher impacts.

**The request is consistent with Goal 6.7 System Effectiveness.**

**GOAL 6.8 CONTEXT:** Provide transportation investments that are responsive to context and natural setting.

This request provides transportation investments that are responsive to both context and natural setting (e.g., see Chapter 4: Facility Types: Definitions and Considerations). The project team used Federal Highway Administration's (FHWA's) Bikeway Selection Guide and the National Association of City Transportation Officials (NACTO) Designing Bikeways for All Ages and Abilities guidelines to analyze and then recommend the appropriate bicycling facility type for roadway setting and context. This includes looking at bikeway context, traffic speeds, design standards, facility types, and other factors—such as natural setting, rights-of-way—to complement the existing network to plan low-stress bikeways.



In keeping with the intent of Multi-Modal Corridors, the 2024 BTFP recognizes that “...nearby parallel streets will serve bicycle travel” as noted on page 5-17 of the Comp Plan (2017). For example, one of the highest-priority, near term bike project is the Claremont Avenue Bike Boulevard. This route can serve as an alternative to the busy Menaul Boulevard, or a “network spine” because of its length, low vehicle speeds and traffic volumes, existing traffic-calming features, and connectivity to Centers.

**The request is consistent with Goal 6.8 Context.**

#### CHAPTER 7: URBAN DESIGN

**POLICY 7.6.2 TRANSPORTATION INFRASTRUCTURE:** Match infrastructure capacity, design, and maintenance to the development context, expected land use intensities of abutting development, and all travel modes.

The 2024 BTFP matches infrastructure capacity, design, and maintenance to the development context, expected land use intensities of abutting development, and all travel modes by considering roadway capacity, design, maintenance, and land use when identifying the appropriate bikeway facility type for a roadway. The roadway right-of-way and width, traffic volumes and speeds, traffic volume thresholds, and existing or expected land uses were additional metrics considered as new and enhanced bikeways were proposed, or when considering when a road diet would be appropriate in the implementation of a bikeway. **The request is consistent with Policy 7.6.2 Transportation Infrastructure.**

#### CHAPTER 10: PARKS & OPEN SPACE

**GOAL 10.2 PARKS:** Provide opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents.

This request provides opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents by proposing a connected network of low-stress, high-comfort on- and off-street bikeway options for people of all ages, abilities, and backgrounds for transportation and recreation. Additionally, the 2024 BTFP intends to prioritize bikeway investments in areas that have not had their fair share of past investment. Although, the 2024 BTFP does not consider unpaved trails, equestrian needs, and recreational facilities within City parks and open space as did the 2015 BTFP, these items are maintained within the 2024 Plan with opportunities for revision as needed in the future.

In addition to the invite of participation through the physical activity of bicycling, the City of Albuquerque reached out to involve community members for their input,

experience, and recommendations to inform 2024 BTFP bicycling-related needs and priorities. **The request is consistent with Goal 10.2 Parks.**

*CHAPTER 13: RESILIENCE & SUSTAINABILITY*

GOAL 13.5 COMMUNITY HEALTH: Protect and maintain safe and healthy environments where people can thrive.

This request can help protect and maintain safe and healthy environments where people can thrive. As part of the 2024 BTFP update, there is an expanded focus on safety in vulnerable communities where individuals are more likely to rely on walking, bicycling, and taking transit. Second, adhering to the City's Vision Zero goals, implementing high-quality facilities that promote user safety and comfort can cut traffic fatalities and serious injuries as well as reduce overall stress for bicyclists with a network of connecting corridors that enable a wider range of trips to be taken by bicycle. Ideally, improving bikeway infrastructure can increase the number of trips taken by bicycle or alternative mode of transit, which can lead to a reduction of total vehicle GHG emissions and related impact on public health outcomes. The plan adds safe opportunities for passive and active recreation, that can also encourage greater time spent in the outdoors which is linked to a variety of health benefits including connections to nature, the community, and healthful habits. **The request is consistent with Goal 13.5 Community Health.**

***Integrated Development Ordinance (IDO)***

The application for this request was submitted subsequent to the effective date on May 17, 2018 of the Integrated Development Ordinance and is therefore subject to its regulations and processes.

*Definitions*

**Bikeway:** Any street or trail that is specifically designated for bicycle travel, regardless of whether such facility is designated for the exclusive use of bicycles or is to be shared with other transportation modes.

**Center:** An area designated as a Center in the ABC Comp Plan, as amended, excluding Old Town. For the purposes of this IDO if any portion of a lot is within a Center, Center regulations apply to the entire lot.

**Corridor:** A street and adjoining land designated in the ABC Comp Plan, as amended, as one of 5 Corridor types designated based on travel modes and development intensity, excluding Commuter Corridors. See also Measurement Definitions for Corridor Area.

**Facility Plan:** Rank 2 plan that is specialized to cover only one type of utility or public facility, such as electric facilities or Major Public Open Space, and specifies important development standards, general site locations, and multi-year programs for facility

capital improvements. Such plans address the entire metropolitan area or city, or at least a major part of it.

Multi-use Trail: A paved path physically separated from motorized vehicle traffic by an open space or barrier and constructed within the public right-of-way, private way, or an easement, including but not limited to utility and drainage easements that permit more than one type of non-motorized use.

Public Right-of-way: Public Right-of-way Land deeded, reserved or dedicated by plat, or otherwise acquired by any unit of government for the purposes of movement of vehicles, bicycles, pedestrian traffic, and/or for conveyance of public utility services and drainage. This land generally does not have established zoning and is instead designated as “unclassified” in the Official Zoning Map.

### ***Rank 2 Facility Plans***

The proposed Bikeway and Trail Facilities Plan (BTFP) is a Rank 2 Facility Plan (<https://www.cabq.gov/planning/plans-publications>). Facility Plans provide policy guidance on a particular topic citywide to relevant implementing departments. They normally focus and deal with only one type of natural resource (such as Major Public Open Space), type of public facility or utility (such as electricity transmission), or topic (e.g., parks, solid waste, transportation, or smaller geographic areas). These plans are required to be consistent with the ABC Comp Plan, as amended, and to identify how they relate to its vision, goals, and policies. In case of conflict, policies in the ABC Comp Plan, as amended, shall prevail.

The 2024 BTFP focuses specifically on recommendations for City-led improvements to the network of on-street bikeways, (e.g., bike boulevards and bike lanes) and paved multi-use trails, with an emphasis on enhanced crossings where trails intersect with major roads. The last BTFP update was adopted in 2015 (F/S R-14-142, R-2015-045), and this plan proposes to set a regular interval for revisiting and updating the document.

### ***IDO §14-16-6-7(B) ADOPTION OR AMENDMENT OF FACILITY PLAN***

Facility Plans may specify amendment procedures different from the provisions in the IDO. Where a Facility Plan is silent or requires review by the EPC and final decision by City Council, the provisions of this IDO §14-16-6-7(B) apply. In such cases, all applicable provisions of IDO §14-16-6-4 (General Procedures) apply unless specifically modified by the provisions of this IDO §14-16-6-7(B).

### ***Requirements***

The review and decision criteria outline policies and requirements for amending a facility plan. The Applicant must provide sound justification that several tests have been met. The burden is on the Applicant to show why a change should be made pursuant to IDO §14-16-6-7(B).

The citywide BTFP will be reviewed by the EPC to make a recommendation to the City Council, who reviews and decides on the Facility Plan update.

The final version of the 2024 BTFP and Applicant's project letter, analyzed here, were received July 2, 2024.

*Justification & Analysis*

Staff believes that the proposed Plan meets the adoption or amendment of facility plan Decision Criteria (IDO §14-16-6-7(B)(3)) as elaborated in the project letter. Citations are from the IDO.

The review and decision criteria outline policies and requirements for amending a facility plan. An application for Adoption or Amendment of a Facility Plan shall be approved if it meets all of the following:

**6-7(B)(3)(a)** The proposed plan or amendment is consistent with the spirit and intent of the ABC Comp Plan, as amended, and with other policies and plans adopted by the City Council.

*Applicant Response: The amended Bikeway and Trail Facilities Plan (2024 BTFP) is consistent with and supports the spirit and intent of the Albuquerque/Bernalillo County Comprehensive Plan (Comp Plan), as amended, and with other policies and plans adopted by the City Council. The plan generally furthers a preponderance of applicable Comp Plan Goals and Policies, which are discussed below. It also generally furthers other plans and policies adopted by the City Council, including the Complete Streets Policy (2019), Vision Zero Year-in-Review/Action Plan Update (2023), and the Climate Action Plan (2021).*

Staff Response: As demonstrated by the policy-based analysis of the proposed Facility Plan, the request is consistent with applicable Comprehensive Plan Goals and Policies. These Goals and Policies were analyzed in Section II: Analysis of City Plans and Ordinances of the staff report, and are included as Findings 7-11.

**6-7(B)(3)(b)** The proposed plan or amendment promotes the efficient use or administration of public or quasi-public facilities.

*Applicant Response: The amended 2024 BTFP promotes the efficient use or administration of public or quasi-public facilities. It also promotes the efficient use of staff time and taxpayer dollars in several ways. The first way is by identifying proposed low-stress on and off-street bikeway types to serve people bicycling for transportation and recreation. The project team investigated each proposed low-stress bikeway type to ensure its feasibility. If a low-stress facility was not feasible along a Comp Plan Corridor or other corridor, a low-stress parallel route to support multi-modal connectivity was identified.*

*The second way the 2024 BTFP promotes the efficient use or administration of public or quasi-public facilities is by creating a prioritized list of implementable on and off-street bikeway projects that serve people interested in bicycling for recreation and transportation. Identifying proposed facility types and prioritizing proposed bikeway projects promotes more efficient use of staff time and taxpayer dollars since staff will not need to investigate these items when bikeway implementation funding is identified. Additionally, both the proposed bikeway projects and prioritization went through several rounds of public input, which also promotes more efficient use of public or quasi-public facilities.*

*Implementing recommendations from the amended 2024 BTFP will concurrently further Comp Plan Goals and Policies, the Complete Streets Ordinance, the Vision Zero Action Plan, and the Climate Action Plan, which are also examples of promoting the efficient use of public or quasi-public facilities.*

*Proposed projects can also be beneficial to people walking and accessing transit because recommended sidepaths, multi-use trails, and improved crossings at major streets benefit people walking too and improve first and last mile of connectivity to/from transit. The amended 2024 BTFP also formalizes evaluation and prioritization criteria to ensure consistency with BTFP goals and objectives. The BTFP leverages the Annual Complete Streets Maintenance program to implement on-street bikeways, utilizes General Obligation bonds and other City funding sources, and identifies opportunities for improvements through private development.*

*The 2024 BTFP identifies and emphasizes on-street bikeway projects that can be easily implemented through routine maintenance such as restriping or repaving projects or through the Annual Complete Streets Maintenance Program. If funding and staff capacity are available, these projects could be built more quickly (within a few years) and without significant capital costs. For example, between 2021 and 2023, through the Annual Complete Streets Maintenance Program, the City added over 35 miles of new or improved existing on-street bikeways. The 2024 BTFP also identifies longer-term reconstruction projects for both on and off-street bikeways that can be a standalone project or incorporated into larger transportation projects.*

Staff Response: The proposed 2024 BTFP shall promote the efficient use and administration of public or quasi-public facilities in a variety of ways. First, the 2024 BTFP prioritized implementable, on- and off-street bikeway projects. This process used a data-driven, equity-focused approach to identify locations not easily accessed and provides a more consistent approach to bikeway and trail planning. It describes potential implementation timeframes so that there is less need to investigate options for funding and staff capacity, all of which can reduce build time and capital costs.

Next, the 2024 BTFP emphasizes on-street bikeway projects that can be easily implemented, either through routine maintenance or existing programs. Proposed

projects such as safer crossings at major streets can also benefit people walking and/or walking in order to reach transit stops. Last, the 2024 BTFP promotes efficiency by identifying partnerships with local and regional groups or opportunities for project implementation through private development to leverage funding. The final 2024 BTFP recommendations are intended to be integrated into the Mid-Region Council of Governments (MRCOG) regional Long Range Bikeway System.

**6-7(B)(3)(c)** The plan or amendment will promote public health, safety, and general welfare.

*Applicant Response: The amended 2024 BTFP will promote public health, safety, and general welfare. The amended 2024 BTFP supports public health by supporting improvements to create an accessible all ages, abilities, and backgrounds active transportation network where people can safely walk, bike, and access transit. The Centers for Disease Control and Prevention (CDC) recommends that adults get at least 150 minutes of moderate-intensity physical activity each week. According to the National Household Travel Survey, 45.6% of vehicle trips are three miles or less, which is a distance that could be taken by bicycle. The 2024 BTFP promotes public health by creating a network in which the public can choose active transportation options while also contributing to the recommended 150 minutes of physical activity.*

*The 2024 BTFP also promotes safety by emphasizing safer conditions for people biking through infrastructure improvements that align with national best practices, and FHWA's proven safety countermeasures and Bikeway Selection Guide. Many local and national surveys indicate that people would be willing to bicycle more if safer bicycling infrastructure existed. The plan also identifies opportunities for public education for both people bicycling and people driving. The plan identifies strategies for improved data collection, analysis, and monitoring of the bikeway network and communication tools such as Story Maps to make this information more accessible to the public.*

*The 2024 BTFP promotes general welfare by creating a bikeway network that makes bicycling more accessible and safer to everyone, particularly our more vulnerable communities that rely on walking, biking, and transit to get around to meet daily needs.*

**Staff Response:** The proposed BTFP shall promote public health, safety, and general welfare.

The 2024 BTFP supports public health by creating a bikeway network for all ages, abilities, and backgrounds of bicyclists. It proposes a more equitable distribution of bike network facilities by targeting improvements in locations that have lacked bike facilities but have disproportionate levels of traffic fatalities and injuries. It recognizes that different user groups have varying comfort levels using on- and off-street bike facilities and sometimes it is necessary to create facilities in parallel corridors. For example, some bicyclists who are more experienced may prefer bike lanes rather than multi-use trails because bike lanes allow more direct access to destinations than multi-use trails could

provide. On the other hand, less experienced bicyclists may prefer the slower speeds and lack of auto traffic on multi-use trails.

The 2024 BTFP supports safety by prioritizing safer bike facilities and safer crossings in areas with disproportionately higher rates of bike and pedestrian fatalities and injuries (i.e., the HFIN maps) as well as areas with persons who are more dependent on walking, biking, and transit for everyday transportation needs. It incorporates FHWA best practices for proven safety countermeasures and aligns with recently-adopted policies such as Vision Zero.

The 2024 BTFP supports general welfare by creating a more equitable and sustainable network of bike facilities. It encourages biking not only for recreation and fitness but for all transportation purposes as an economically and environmentally sustainable transportation mode. It emphasizes the short-term implementation of on-street bike facilities through programs such as the Annual Complete Streets Maintenance Program to more quickly build a bike network that is both useful and safe.

### ***III. Amendment of Facility Plan***

#### ***Overview & Purpose***

The request is for the Amendment of the 2024 Bikeway and Trail Facilities Plan (BTFP). The BTFP is a Rank 2 Facility Plan that provides direction for the City's bicycle infrastructure investments and is a mechanism for implementing Comprehensive Plan Goals and Policies – specifically relating to bikeways and trail facilities within the City.

The purpose of the 2024 BTFP update is to follow emerging best practices in the planning and implementation of an interconnected, citywide bikeway and trail system with a focus on on-street bikeways, paved multi-use trails, and crossings where bikeways intersect major roads. Updating the 2024 BTFP should create consistency and alignment between recently adopted plans and policies at all levels of government, including the Albuquerque/Bernalillo County Comprehensive Plan. It is also meant to create an equitable distribution of bikeways across the city.

The EPC is the reviewing and recommending body, while the City Council is the deciding body for the proposed amendment. The EPC can forward recommended conditions of approval to the City Council pursuant to IDO §14-16-6-4(P)(2).

The 2024 Bike and Trail Facilities Plan (BTFP) is being reviewed by the City Staff and EPC pursuant to IDO §14-16-6-7(B)(2).

Findings and Recommendations of the Environmental Planning Commission will be forwarded to the City Council who shall conduct a public hearing and make a decision on the application.

### ***Proposed Facility Plan Amendment***

Since many of the major components of the 2015 BTFP were realized or already incorporated into the City's Development Process Manual (DPM), the 2024 BTFP is an overhaul of the existing 2015 BTFP. Because there were so many complex changes to the 2015 BTFP, a red-lined document of that plan was not included. The approved 2015 BTFP can be found [here](http://documents.cabq.gov/planning/adopted-longrange-plans/BTFP/Final/BTFP%20FINAL_Jun25.pdf): [http://documents.cabq.gov/planning/adopted-longrange-plans/BTFP/Final/BTFP%20FINAL\\_Jun25.pdf](http://documents.cabq.gov/planning/adopted-longrange-plans/BTFP/Final/BTFP%20FINAL_Jun25.pdf).

The proposed 2024 BTFP is included as an attachment to the report (see Appendix H).

### ***Discussion/Analysis***

The 2024 Bikeway and Trail Facilities Plan (BTFP) updates the 2015 BTFP with new or improved bike facilities added to the existing citywide bike system to reflect national best practices in bicycle network planning and bikeway design and recently-adopted City of Albuquerque ordinances and plans such as the Complete Streets Ordinance, Vision Zero Action Plan, and the Climate Action Plan.

Importantly, these plans and policies consider the needs of historically marginalized communities (e.g., areas with higher levels of traffic violence) where bike facilities have traditionally been under-funded. The 2024 BTFP centers the equity concerns in these areas by intentionally increasing the quantity of safer and better biking facilities within them. The 2024 BTFP provides additional metrics to evaluate the level of fatalities and injuries and the vulnerability of a given area (i.e., measures of social vulnerability such as household income, access to a personal vehicle, disability status, et al). These equity components comprise the highest evaluation category for scoring bike projects, 20%, a weighting deliberately intended to prioritize the needs of persons who live in areas that have higher levels of traffic violence as well as a lack of safe bike facilities.

As a Rank 2 plan, the 2024 BTFP potentially impacts any part of the transportation and recreational trail system within the City. It also references bike facilities proposed by Bernalillo County and the Village of Los Ranchos within unincorporated areas of the north and south valleys to create an integrated network. However, the 2024 BTFP will not replace local plans and defers to those agencies for potential improvements in those jurisdictions (See Figure 2. Bikeway and Trail Facilities Plan Study Area in the 2024 BTFP). As implementation opportunities arise, they may necessitate additional study, such as right-of-way and engineering analysis.

The 2024 BTFP includes bicycle facilities prioritized in the 2015 BTFP plan as well as new facilities proposed as a result of the public involvement process for the 2024 BTFP. One of the major changes to the 2015 BTFP is a revision to the prioritization process for evaluating bike facilities. For example, as noted above, an Equity category has been added to the bike facility scoring process to evaluate areas with high traffic violence and where the population is less likely to own cars or be more transit-dependent. For more



information about the prioritization process, refer to Appendix D: Bikeway Evaluation Process: Overview and Methodology of the proposed Plan.

Another area of emphasis in the 2024 BTFP are recommendations to improve intersections of bike facilities and multi-modal trails with major roads, because unsafe crossings prevent a safe bike system for “all ages, abilities, and backgrounds”. Unsafe intersections and discontinuous bike facilities are major barriers to the usefulness of on- and off-street bike facilities. The 2024 BTFP provides a new Bicycle and Trail Crossings Guide (Appendix J) for the selection of appropriate crossing treatments based on both the bike/trail facility and the road facility type and location context (i.e., rural, suburban, or urban).

The 2024 BTFP provides a bike boulevard toolkit (Appendix E), to reflect the value of bike boulevards as part of an implementable, on-street bike network. In the short term, these facilities provide the lowest-stress biking conditions for the least costs, except for crossing treatments of major roads that would require more capital costs and ROW acquisition.

To reflect the growth in e-bike mobility, the 2024 and provides policy recommendations for e-bikes on paved trails and emerging best practices in e-bike rebate programs. This includes evaluating potential models such as Denver, Colorado’s E-Bike incentive Program, which provides rebates for residents earning at or below an 80% area median income.

One of the key takeaways from the 2024 BTFP public engagement process was a desire to better integrate biking and transit, which includes adding more secure bike parking at transit stops and making it easier to bring bikes on buses. Recommendations for transit stakeholder coordination include: looking at potential street improvements along existing or proposed transit corridors; coordinating in a comprehensive program to improve bike and pedestrian access to frequent transit routes; and increasing bike parking at park-and-ride facilities or high-capacity transit (ART) stations.

The 2024 Plan does not consider unpaved trails, equestrian needs, trail maintenance and operations, and recreational facilities within City Parks and Open Space that were covered in the 2015 Plan. However, there will be opportunities to revise additional chapters, elements, and appendices in future BTFPs.

Last, the 2024 Plan contains a review of the adopted policies and programs and criteria for selection of on- and off-street bike facility improvements. It also contains descriptions and summary tables for all proposed projects. The 2024 Plan recommendations are intended to be integrated into the regional Long Range Bikeway System that is maintained by the Mid-Region Council of Governments (MRCOG) with a recommendation to update the Bikeway and Trail Facilities Plan at regular intervals, such as every five years. For more information about what is and is not being updated in the BTFP, please refer to Chapter 1, Introduction and Plan Overview.

Updates to the priority bike network will be integrated into the regional Long Range Bikeway System, maintained by the Mid Region Council of Governments (MRCOG).

*Staff Recommendations*

Planning Urban Design & Development (UDD) worked collaboratively with the applicant to provide comments in February 2024, prior to the 2024 BTFP submittal to the EPC. These comments were mostly questions related to the Implementation chapter, in particular, the Policy Recommendations, Development Process Manual (DPM), and Regional and Stakeholder Coordination.

However, because these comments were based on elements of a previous draft that have since been substantially revised, Staff determined that it would be unnecessary to provide recommendations based on these preliminary discussions. Furthermore, the applicant has been responsive to UDD comments and has incorporated them throughout the document to strengthen the consistency and alignment between the 2024 BTFP and the Comp Plan Goals and Policies.

**IV. Agency and Neighborhood Concerns**

***Reviewing Agencies***

Seven agencies responded to a request for comment. Bernalillo County Planning & Development Services and Public Service Company of New Mexico (PNM) both indicated support for the adoption of 2024 BTFP.

CABQ Solid Waste indicated that any added vertical separation will cause challenges for residents putting out trash and recycle carts since these bins would no longer be serviceable if the wheels weren't allowed against the curb. Although the Plan does not recommend implementing separated bike lanes on residential streets—these projects will be on larger streets with higher vehicle volumes and speeds—language shall be included in the plan that indicates the City Solid Waste Department shall be consulted for separated bikeway designs.

NMDOT asked that any potential impacts to NMDOT facilities from the 2024 BTFP be discussed with the District 3 Assistant Engineer. Proposed facilities on NMDOT roadways follow NMDOT Bike Plan recommendations or match existing NMDOT proposed plans. Additionally, the 2024 BTFP states that if a project falls within the NMDOT area or ROW, the City must coordinate with NMDOT as part of the design phase with internal/external coordination as needed before implementation.

Additional comments were general notes for communication during planning of any proposed project.

***Neighborhood/Public***

Representatives of all Neighborhood Associations that are on file with the Office of Neighborhood Coordination (ONC) were notified of a final informational meeting that was

held Tuesday, May 14, 2024, 6 - 7 pm via Zoom. The 2024 BTFP Project Team presented this meeting as an online webinar to answer questions and spread awareness about the public review draft of the plan. The meeting was recorded and posted online, which was open to public comment from April 22, 2024 through May 31, 2024. Comments and concerns were addressed during the meeting. No additional comments were received following the posted May 14, 2024 Zoom meeting. In general, public comments supported the 2024 BTFP recommendations.

All Neighborhood Representatives were also notified of the July 18, 2024 hearing as required by Integrated Development Ordinance (IDO) IDO §14-16-6-7(B) Adoption or Amendment of Facility Plan about this project.

Five written comments were received from community groups and representatives: Active Living Workgroup, the Greater Albuquerque Active Transportation Committee (GAATC), the Greater Albuquerque Recreational Trails Advisory Committee (GARTC), and BikeABQ. The five letters were in support of both the adoption and implementation of the 2024 BTFP. There is no known opposition as of this writing.

## ***V. Conclusion***

The request is for an Amendment of Facility Plan – EPC to the 2015 Bikeways and Trails Facilities Plan (2015 BTFP). The amendment would facilitate the adoption of the 2024 Bikeway and Trail Facilities Plan (2024 BTFP), which is a Rank 2 Facility Plan that provides direction for the City’s infrastructure investments and is a mechanism for implementing the Comprehensive Plan Goals and Policies – specifically for bikeways and trail facilities within the City.

The EPC is the reviewing and recommending body; the City Council is the deciding body pursuant to IDO §14-16-6-7(B)(2).

Staff’s analysis has shown consistency with numerous Comp Plan Goals and Policies, alignment with several Ordinances and Plans adopted since the 2015 BTFP, and no flaws in the Rank 2 Facility Plan process.

The facility plan has been adequately justified pursuant to the IDO 14-16-6-7(B)(3) - Review and Decision Criteria for Adoption or Amendment of Facility Plan.

The applicant notified all of the City Neighborhood Associations, as required pursuant to IDO 14-16-6-7(B). There were calls and emails from the public inquiring for more information on what was being proposed in the plan. However, there were no major concerns that arose from these inquiries. There has not been any known opposition to this request and there have been letters written in favor of the proposed 2024 BTFP revisions.

**Staff recommends that the EPC forward a recommendation of approval to the City Council subject to the recommended Conditions of Approval that will be determined at the July 18th EPC hearing.**

## ***Findings, Amendment of Facility Plan***

### ***Project # 2024-010493 / RZ-2024-00032***

1. The request is for an Amendment to the 2015 Bikeways and Trails Facilities Plan (BTFP). The BTFP is a Rank 2 Facility Plan that provides direction for the City's infrastructure investments and is a mechanism for implementing the Comprehensive Plan Goals and Policies – specifically for bikeway and trail facilities within the City.
2. The 2024 BTFP amends and updates the 2015 BTFP with new or improved bike facilities added to the existing citywide bike system to reflect emerging best practices in bicycle network planning and bikeway design.
3. The request is for a citywide plan that includes all area Uses and Zoning.
4. The major changes in the 2024 plan from the 2015 Plan are that the 2024 BTFP:
  - Supports the implementation of recently-adopted City ordinances and plans such as the Complete Streets Ordinance, Vision Zero Action Plan, and the Climate Action Plan.
  - Reviews the adopted policies, programs, and criteria for the selection of on- and off-street bike facility improvements with an emphasis on crossings with major roads.
  - Addresses equity in the distribution of safer and better biking connections throughout the City and updates the prioritization process to center the needs in areas where bike facilities have traditionally been under-funded.
  - Reflects the City's commitment to emphasize an "all ages, abilities, and backgrounds" approach in providing bike facilities throughout the City.
  - Prioritizes safety improvements in areas with high levels of traffic violence especially at crossings where on-street bikeways and trails intersect major roads.
  - Adds a Bicycle and Trail Crossings Guide (Appendix J) for the selection of appropriate crossing treatments based on the bike/trail facility, the road facility, and location context (e.g., urban, suburban, or rural).
  - Includes a Bike Boulevard Toolkit (Appendix E) to reflect the value of bike boulevards as part of an implementable, on-street bike network.
  - Provides policy recommendations for e-bikes on paved trails and emerging best practices in e-bike rebate programs to reflect the growth in e-bike mobility.
  - Contains descriptions and summary tables for all proposed projects, including timeframes and cost estimates.
  - Updates the document name from Bikeways & Trails Facilities Plan to Bikeway & Trail Facilities Plan.

5. Bike & trail facilities proposed in the 2024 Plan recommendations are intended to be integrated into the regional Long Range Bikeway System that is maintained by the Mid-Region Council of Governments (MRCOG) with a recommendation to update the Bikeway and Trail Facilities Plan at regular intervals, such as every five years.
6. The Albuquerque/Bernalillo County Comprehensive Plan and the City of Albuquerque Integrated Development Ordinance (IDO), and the BTFP Rank 2 Facility Plan are incorporated herein by reference and made part of the record for all purposes.
7. The request is consistent with the following Comprehensive Plan Goal and Policy regarding Development Patterns from Chapter 5- Land Use:

- A. **GOAL 5.1 CENTERS & CORRIDORS:** Grow as a community of strong Centers connected by a multi-modal network of Corridors.

The facility plan amendment could help the City grow as a community that connects strong Centers through a multi-modal network of Corridors that include on- and off-street bicycling facilities. The 2024 BTFP strengthens the ability of both Centers and Corridors to serve the needs of bicyclists because it emphasizes an “all ages and abilities” approach to make biking a more convenient option for those who bike for transportation purposes as well as recreation. By emphasizing low-stress facilities, such as bike boulevards that parallel busier roads (e.g., Multi-Modal Corridors), biking becomes a viable option for new bicyclists and those hesitant to ride with traffic or in bike lanes along busy roads

As part of the prioritization process for proposed bike projects, the request strengthens Centers by giving bike facilities that connect to Centers higher points than those that do not connect to Centers. The request is consistent with Goal 5.1 Centers & Corridors.

- B. **POLICY 5.1.11 MULTI-MODAL CORRIDORS:** Design safe, Multi-Modal Corridors that balance the competing needs of multiple modes of travel and become more mixed-use and pedestrian-oriented over time.

The 2024 BTFP supports the design of safe Multi-Modal Corridors that balance the needs of multiple modes of travel. These Corridors are designed to become more mixed-use and pedestrian-oriented over time. Development should be encouraged to include a more mixed use, pedestrian-oriented environment with nearby parallel streets dedicated to serve bicycle travel. Because the 2024 BTFP aims to make biking safer for all users, it avoids placing bike facilities such as bike lanes or sidepaths in places where such facilities would be unsafe for the majority of bicyclists. In their present state, Multi-Modal Corridors are unsafe locations for bike facilities since they concentrate on serving fast-

moving and heavy volumes of motorized traffic in locations with frequent driveways for commercial parking lots.

8. The request is consistent with the following Comprehensive Plan Goals and Policies regarding Development Patterns from Chapter 6: Transportation:

- A. GOAL 6.1 LAND USE-Transportation Integration: Plan, develop, operate, and maintain a transportation system to support the planned character of existing and future land uses.

The 2024 BTFP amendment would facilitate the creation of a bike network within the context of a complete transportation system to support the planned character of existing and future land uses as designated by Centers and Corridors in the Comprehensive Plan. A key feature of the 2024 BTFP is an emphasis on improved bikeway and trail crossings, specifically in locations where pedestrian and bike facility crossings should be prioritized to support the planned character of Centers and street elements based on Corridor designations. Additionally, the network attempts to connect people as directly as possible to major community destinations and other low stress bikeways, including multi-use trails. Examples of integration of existing and future transport systems are highlighted in Appendix G: Project Profiles of the 2024 BTFP.

- B. GOAL 6.2 MULTI-MODAL SYSTEM: Encourage walking, biking, and transit, especially at peak-hour commuting times, to enhance access and mobility for people of all ages and abilities.

The 2024 BTFP encourages people of all ages and abilities to choose walking, biking, and transit through improvements to bike and trail facilities as well as intersection improvements of the crossings of these facilities with roads, both of which enhance access and mobility. The 2024 Plan proposes to improve biking and walking comfort and safety by providing barriers between automobile traffic and those using alternative forms of transportation. This can include adding protected hybrid beacons (PHBs) at road crossings. Buffers and other bike facility improvements can also enhance comfort and access to people of all ages, which can further inspire more people to choose transit since transit trips typically begin with either biking or walking to reach transit stops. With safer bike and trail facilities and intersections, commuters can be more motivated to walk, bike and/or use transit, especially during peak hours. Lastly, the 2024 BTFP proposes policies and programs to encourage mode share shifts, especially during peak-hour commuting times.

- C. POLICY 6.2.2 Incorporate Complete Streets concepts and policies into the development, retrofit, and rehabilitation of all transportation infrastructure at all

phases, including planning, scoping, design, implementation, and performance monitoring.

The 2024 BTFP incorporates Complete Streets concepts and policies into the development, retrofit and rehabilitation of all phases of transportation infrastructure. It leverages the City's Annual Complete Streets Maintenance program identify opportunities to quickly and cost effectively create on-street bikeways such as a) bike routes through signage and traffic calming, b) restriping bike lanes and/or buffered bike lanes, and/or c) improve substandard existing bike lanes within the curb lines of paved roads. One of the 2024 BTFP recommendations is to enhance the Annual Complete Streets Maintenance Program to include advanced planning for resurfacing needs and inclusive selection criteria for project locations.

- D. **POLICY 6.2.5 BICYCLE NETWORK:** Promote an areawide bicycle and trail network for transportation and recreation that emphasizes connections among Centers and safe crossings at intersections.

The 2024 BTFP promotes an areawide bicycle and trail network for transportation and recreational purposes that emphasizes connections among Centers and provides an increased focus on safe intersection crossings. Part of the scoring to evaluate potential bike facilities that was done for the 2024 BTFP update was to evaluate how well bikeways connect to Centers and other community facilities. Those that provide better connectivity and access more Centers and community facilities are scored higher than those that do not. The 2024 BTFP emphasizes the importance of safe intersection crossings by providing a Bicycle and Trail Crossings Guide, which was not included in previous plans (for more information, see Appendix J in the 2024 BTFP).

- E. **GOAL 6.3 SAFETY:** Plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users.

The 2024 BTFP is a guide to plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users. Although the 2024 BTFP intent is to improve conditions for bike travel, bike facility improvements also support safe access for modes such as walking and transit use. This is because the 2024 BTFP incorporates Vision Zero goals and policies to improve safety, especially for such roadway users as people bicycling or walking.

The 2024 BTFP improves safety for cyclists through street design. The plan recommends bike facilities such as protected bike lanes that follow national best practices that are proven to improve safety.

- F. **GOAL 6.4 PUBLIC HEALTH:** Promote individual and community health through active transportation, noise mitigation, and air quality protections.

The 2024 BTFP promotes individual and community health through promoting active transportation via biking. As the bike mode share increases and motor vehicle mode share use decreases, there will be less noise and air pollution caused by motor vehicles burning fossil fuels.

- G. **POLICY 6.4.1 ACTIVE TRANSPORTATION:** Promote options and mobility for walking, biking, and other nonmotorized travel.

The 2024 BTFP promotes options and mobility for walking, biking, and other non-motorized travel. The plan recommends safety improvements, especially at intersections of multi-modal trails at major roads, which can encourage more walking trips and other nonmotorized travel, as well as better access for persons using active transportation to reach transit stops because these recommendations improve access to Centers and other key community destinations. The 2024 BTFP plan has several recommendations to encourage biking as a form of active transportation, such as the Esperanza Bicycle Safety Education Center and events like Bike to Wherever Day.

- H. **GOAL 6.5 EQUITY:** Expand mobility by providing safe and connected networks for non-auto travel and public transit for low-income and vulnerable populations.

One of the main goals of the 2024 BTFP is to expand mobility for low-income and vulnerable populations by providing safer and better networks for bike and other non-automotive travel modes. Because low-income and vulnerable populations are less likely to own a car (or be able to drive) and more likely to use public transit, bike network improvements in High Fatal and Injury Network (HFIN) high crash areas and vulnerable communities also expand transit mobility. This is because all transit trips begin and end with a non-motorized mode such as biking or walking. In recognition of the disproportionate share of traffic violence experienced in low-income and vulnerable communities, equity was given the highest single evaluation criteria to and weighted at 20% (see Chapter 6, Table 18).

- I. **POLICY 6.5.1 EQUITABLE TRANSPORTATION SYSTEMS:** Consider the needs of people of all ages and abilities in the design, construction, and operation of transportation systems.

The 2024 BTFP request makes an “all ages and abilities” approach the main theme in the design, construction, and operation of bike transportation systems. This importance is reflected in the first sentence of the Vision Statement:



Albuquerque is a city that embraces bicycling by implementing convenient on-street bikeways and paved multi-use trail facilities that enhance safety and appeal to people of all ages, abilities, and backgrounds (underlined for emphasis).

The first Goal in the 2024 BTFP is to “Increase access to on-street bikeways and multi-use trails for all people in Albuquerque.” One means of increasing access is to prioritize bike infrastructure improvements in areas previously lacking in such facilities or in areas with high social vulnerability.

- J. GOAL 6.6 ECONOMY: Invest in a transportation system that stimulates and supports job creation and business development and improves the movement of people, goods, and services.

Consistent to the original 2015 BTFP, the bikeway and trail network can continue to be leveraged as an integral part of economic development that helps stimulate and support job creation and business development along routes made more accessible to cycling. Also, providing quality transportation infrastructure citywide is a proven approach to improving access to jobs and services, especially for those without personal vehicle transport.

This request also invests in a transportation system that improves the movement of people, goods, and services by applying appropriate contexts of bikeway facility types derived from the Federal Highway Administration (FHWA) Bikeway Selection Guide and the National Association of City Transportation Officials (NACTO) Urban Bikeway Design Guide and in support of the City’s Vision Zero goals by implementing high-quality facilities that promote user safety and comfort. Additional design guidance and standards are taken from the City of Albuquerque Development Process Manual (DPM) with the 2024 BTFP also recommending revisions to the DPM based on emerging national best practices. The resulting 2024 BTFP suggestions for individual bikeway and trail improvement projects reflect the bikeway infrastructure needed to achieve low-stress conditions for people biking citywide.

- K. GOAL 6.7 SYSTEM EFFECTIVENESS: Implement and maintain an effective and efficient transportation system in a coordinated and cost-effective manner.

This request implements and maintains an effective and efficient bicycle and railway transportation system in a coordinated and cost-effective manner. Like most cities, the City of Albuquerque is constrained by resource availability that necessitates prioritizing improvements and implementing priority projects. This 2024 BTFP describes the potential means of implementing projects, identifies complementary policy and programmatic actions, and describes potential funding sources for the recommendations that were

derived through a data-driven prioritization process. This process considered evaluation criteria that address six key issues (i.e., safety, equity, access, network improvements, level of use, and community input). Identifying these categories for each proposed facility creates an opportunity to better coordinate and implement recommended projects more cost-effectively.

Additionally, the 2024 BTFP coordinates with existing City plans and programs (e.g., Annual Complete Streets Maintenance, Vision Zero, Climate Action Plan) to help further opportunities to quickly build new or improve existing bike infrastructure. Design and development of the 2024 BTFP updates were made with input from city, county, regional, and state level transportation partner agencies and associated programs and documents. These entities helped assist with the bikeway and trail transportation system update for the City of Albuquerque and the region.

Conditions for people biking through the Village of Los Ranchos and unincorporated portions of Bernalillo County between Rio Bravo Blvd and Tramway Blvd outside of the City of Albuquerque jurisdiction were also evaluated for the purposes of developing a better coordinated, efficient, and well-connected network. The overall 2024 BTFP acknowledges the real constraints related to staffing capacity and the financial resources available for implementation, and the approach emphasizes projects with lower costs combined with higher impacts.

- L. GOAL 6.8 CONTEXT: Provide transportation investments that are responsive to context and natural setting.

This request provides transportation investments that are responsive to both context and natural setting (e.g., see Chapter 4: Facility Types: Definitions and Considerations). The project team used Federal Highway Administration's (FHWA's) Bikeway Selection Guide and the National Association of City Transportation Officials (NACTO) Designing Bikeways for All Ages and Abilities guidelines to analyze and then recommend the appropriate bicycling facility type for roadway setting and context. This includes looking at bikeway context, traffic speeds, design standards, facility types, and other factors—such as natural setting, rights-of-way—to complement the existing network to plan low-stress bikeways.

In keeping with the intent of Multi-Modal Corridors, the 2024 BTFP recognizes that “...nearby parallel streets will serve bicycle travel” as noted on page 5-17 of the Comp Plan (2017). For example, one of the highest-priority, near term bike project is the Claremont Avenue Bike Boulevard. This route can serve as an alternative to the busy Menaul Boulevard, or a “network spine” because of

its length, low vehicle speeds and traffic volumes, existing traffic-calming features, and connectivity to Centers.

9. The request is consistent with the following Comprehensive Plan POLICY 7.6.2 TRANSPORTATION INFRASTRUCTURE from Chapter 7: Urban Design: Match infrastructure capacity, design, and maintenance to the development context, expected land use intensities of abutting development, and all travel modes:

The 2024 BTFP matches infrastructure capacity, design, and maintenance to the development context, expected land use intensities of abutting development, and all travel modes by considering roadway capacity, design, maintenance, and land use when identifying the appropriate bikeway facility type for a roadway. The roadway right-of-way and width, traffic volumes and speeds, traffic volume thresholds, and existing or expected land uses were additional metrics considered as new and enhanced bikeways were proposed, or when considering when a road diet would be appropriate in the implementation of a bikeway.

10. The request is consistent with Comprehensive Plan GOAL 10.2 PARKS from Chapter 10: Parks & Open Space: Provide opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents:

This request provides opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents by proposing a connected network of low-stress, high-comfort on- and off-street bikeway options for people of all ages, abilities, and backgrounds for transportation and recreation. Additionally, the 2024 BTFP intends to prioritize bikeway investments in areas that have not had their fair share of past investment. Although, the 2024 BTFP does not consider unpaved trails, equestrian needs, and recreational facilities within City parks and open space as did the 2015 BTFP, these items are maintained within the 2024 Plan with opportunities for revision as needed in the future.

In addition to the invite of participation through the physical activity of bicycling, the City of Albuquerque reached out to involve community members for their input, experience, and recommendations to inform 2024 BTFP bicycling-related needs and priorities.

11. The request is consistent with Comprehensive Plan GOAL 13.5 COMMUNITY HEALTH from Chapter 13: Resilience & Sustainability: Protect and maintain safe and healthy environments where people can thrive:

This request can help protect and maintain safe and healthy environments where people can thrive. As part of the 2024 BTFP update, there is an expanded focus on safety in vulnerable communities where individuals are more likely to rely on walking,

bicycling, and taking transit. Second, adhering to the City's Vision Zero goals, implementing high-quality facilities that promote user safety and comfort can cut traffic fatalities and serious injuries as well as reduce overall stress for bicyclists with a network of connecting corridors that enable a wider range of trips to be taken by bicycle. Ideally, improving bikeway infrastructure can increase the number of trips taken by bicycle or alternative mode of transit, which can lead to a reduction of total vehicle GHG emissions and related impact on public health outcomes. The plan adds safe opportunities for passive and active recreation, that can also encourage greater time spent in the outdoors which is linked to a variety of health benefits including connections to nature, the community, and healthful habits.

12. Pursuant to IDO §14-16-6-7(B)(3) of the Integrated Development Ordinance, Review and Decision Criteria, an application for Adoption or Amendment of a Facility Plan shall be approved if it meets all of the following criteria:

- a) 14-16-6-7(B)(3)(a) The proposed plan or amendment is consistent with the spirit and intent of the ABC Comp Plan, as amended, and with other policies and plans adopted by the City Council.

Staff Response: As demonstrated by the policy-based analysis of the proposed Facility Plan, the request is consistent with applicable Comprehensive Plan Goals and Policies. These Goals and Policies were analyzed in Section II: Analysis of City Plans and Ordinances of the staff report, and are included as Findings 7-11.

- b) 14-16-6-7(B)(3)(b) The proposed plan or amendment promotes the efficient use or administration of public or quasi-public facilities.

The proposed 2024 BTFP shall promote the efficient use and administration of public or quasi-public facilities in a variety of ways. First, the 2024 BTFP prioritized implementable, on- and off-street bikeway projects. This process used a data-driven, equity-focused approach to identify locations not easily accessed and provides a more consistent approach to bikeway and trail planning. It describes potential implementation timeframes so that there is less need to investigate options for funding and staff capacity, all of which can reduce build time and capital costs.

Next, the 2024 BTFP emphasizes on-street bikeway projects that can be easily implemented, either through routine maintenance or existing programs. Proposed projects such as safer crossings at major streets can also benefit people walking and/or walking in order to reach transit stops. Last, the 2024 BTFP promotes efficiency by identifying partnerships with local and regional groups or opportunities for project implementation through private development to leverage funding. The final 2024 BTFP recommendations are

intended to be integrated into the Mid-Region Council of Governments (MRCOG) regional Long Range Bikeway System.

- c) 14-16-6-7(B)(3)(c) The plan or amendment will promote public health, safety, and general welfare.

The proposed BTFP shall promote public health, safety, and general welfare.

The 2024 BTFP supports public health by creating a bikeway network for all ages, abilities, and backgrounds of bicyclists. It proposes a more equitable distribution of bike network facilities by targeting improvements in locations that have lacked bike facilities but have disproportionate levels of traffic fatalities and injuries. It recognizes that different user groups have varying comfort levels using on- and off-street bike facilities and sometimes it is necessary to create facilities in parallel corridors. For example, some bicyclists who are more experienced may prefer bike lanes rather than multi-use trails because bike lanes allow more direct access to destinations than multi-use trails could provide. On the other hand, less experienced bicyclists may prefer the slower speeds and lack of auto traffic on multi-use trails.

The 2024 BTFP supports safety by prioritizing safer bike facilities and safer crossings in areas with disproportionately higher rates of bike and pedestrian fatalities and injuries (i.e., the HFIN maps) as well as areas with persons who are more dependent on walking, biking, and transit for everyday transportation needs. It incorporates FHWA best practices for proven safety countermeasures and aligns with recently-adopted policies such as Vision Zero.

The 2024 BTFP supports general welfare by creating a more equitable and sustainable network of bike facilities. It encourages biking not only for recreation and fitness but for all transportation purposes as an economically and environmentally sustainable transportation mode. It emphasizes the short-term implementation of on-street bike facilities through programs such as the Annual Complete Streets Maintenance Program to more quickly build a bike network that is both useful and safe.

13. Representatives of all Neighborhood Associations that are on file with the Office of Neighborhood Coordination (ONC) were notified of a final informational meeting that was held Tuesday, May 14, 2024, 6 - 7 pm via Zoom.
14. The 2024 BTFP Project Team held an online Zoom meeting to answer questions and spread awareness about the public review draft of the plan. The meeting was recorded and posted online, which was open to public comment from April 22, 2024 through May 31, 2024. Comments and concerns were addressed during the meeting. No additional comments were received following the posted May 14, 2024 Zoom meeting.

15. All Neighborhood Representatives were notified of the July 18, 2024 hearing as required by Integrated Development Ordinance (IDO) IDO §14-16-6-7(B) Adoption or Amendment of Facility Plan.
16. Written comments were received from community groups, representatives, and their members: Active Living Workgroup, the Greater Albuquerque Active Transportation Committee (GAATC), the Greater Albuquerque Recreational Trails Advisory Committee (GARTC), the President of BikeABQ, and the BikeABQ Board of Directors and group members. The five letters were in support of both the adoption and implementation of the 2024 BTFP. There is no known opposition as of this writing.
17. A total of seven Agencies responded to a request for comment.
  - Both the Bernalillo County Planning & Development Services and Public Service Company of New Mexico (PNM) support the adoption of 2024 BTFP.
  - CABQ Solid Waste indicated that any added vertical separation will cause challenges for residents putting out trash and recycle carts since these bins would no longer be serviceable if the wheels weren't allowed against the curb. Although the Plan does not recommend implementing separated bike lanes on residential streets—proposed bikeway projects will be on larger streets with higher vehicle volumes and speeds.
  - NMDOT asked that any potential impacts to NMDOT facilities from the 2024 BTFP be discussed with the District 3 Assistant Engineer. Proposed facilities on NMDOT roadways follow NMDOT Bike Plan recommendations or match existing NMDOT proposed plans. Additionally, the 2024 BTFP states that if a project falls within the NMDOT area or ROW, the City must coordinate with NMDOT as part of the design phase with internal/external coordination as needed before implementation.
  - Additional comments were general notes for communication during planning of any proposed project.

### ***Recommendation***

***That a recommendation of APPROVAL be forwarded to City Council for Project #: 2024-010493 / RZ-2024-00032, a request for Amendment of Facility Plan, based on the preceding Findings 1-17 and subject to the following recommended Conditions of Approval 1-5.***

### ***Recommended Conditions of Approval***

***Project #: 2024-010493 / Case # RZ-2024-00032, Amendment of Facility Plan***

1. The applicant shall coordinate with the staff planner to ensure that all Conditions of Approval are met and then submit a vetted, final version to the staff planner for filing at the Planning Department.
2. The number of evaluation criteria and verbiage on page 95 of the 2024 BTFP document shall match that which is used in Tables 17 and 18.
3. Solid Waste shall be consulted for any project incorporating separated bikeway designs especially where trash and recycle carts are stationed for pickup.
4. If a project falls within the NMDOT area or ROW, the City shall coordinate with NMDOT as part of the design phase with internal/external coordination as needed before implementation.
5. Any related future development shall comply with the General Regulations of the IDO and all other applicable design regulations, and be subject to collaboration with other City of Albuquerque Departments/ Offices and appropriate Agencies except as specifically approved by the EPC.

---

*Robert Messenger*

Senior Planner

*Catherine Heyne*

Planner

Notice of Decision cc list:

DMD, Director, JenniferTurner@cabq.gov  
DMD, PRD, vhermanson@cabq.gov  
ABQ Park NA, shirleylockyer@gmail.com  
ABQ Park NA, tiffany.m1274@gmail.com  
ABQCore NA, abqcorena@gmail.com  
ABQCore NA, ken@cbm-wellness.com  
ABQCore NA, pcandelaria@gmail.com  
Academy Estates East NA, dukecity777@yahoo.com  
Academy Estates East NA, lepope@msn.com

Academy Hills Park NA, academyhillsparkna@gmail.com  
Academy Hills Park NA, Chipolson44@gmail.com  
Academy Hills Park NA, nwaslosky@comcast.net  
Academy North NA, adamjwar@hotmail.com  
Academy North NA, annapresident505@gmail.com  
Academy North NA, dwehling@outlook.com  
Academy Ridge East NA, arena87111@gmail.com  
Academy Ridge East NA, arnoldtom@yahoo.com  
Academy Ridge East NA, ellielw@comcast.net  
Alamosa NA, jeanettebaca973@gmail.com  
Alamosa NA, jgallegoswccd@gmail.com  
Altura Addition NA, archhero@aol.com  
Altura Addition NA, wright.js@gmail.com  
Altura Park NA, alturapark@gmail.com  
Altura Park NA, nspero@phs.org  
Altura Park NA, rajackso@msn.com  
Alvarado Gardens NA, medexter49@gmail.com  
Alvarado Gardens NA, president@alvaradoneighborhood.com  
Alvarado Park NA, elissa.dente@gmail.com  
Alvarado Park NA, marybe9@gmail.com  
Antelope Run NA, alexlrnm@comcast.net  
Antelope Run NA, antelope.run.abq@gmail.com  
Antelope Run NA, kfabiszak@sbcglobal.net  
Arroyo Del Oso North NA, adonneighborhood@gmail.com  
Arroyo Del Oso North NA, sdarling8713@gmail.com  
Arroyo Del Oso North NA, willieorr1@msn.com  
Barelas NA, barelasna505@gmail.com  
Barelas NA, bna@seanpotter.co  
Barelas NA, gcolts66@outlook.com  
Bear Canyon NA, bstone@yahoo.com  
Bear Canyon NA, patsybeck@aol.com  
BelAir NA, board@bananm.org  
BelAir NA, flops2@juno.com  
BelAir NA, ions82@hotmail.com  
Campus NA, calmartin93@gmail.com  
Campus NA, campus.neighborhood.assoc@gmail.com  
Campus NA, kenny.stansbury@gmail.com  
Cherry Hills Civic Association, k2riley@msn.com  
Cherry Hills Civic Association, rvaughn.rv@gmail.com  
Cibola Loop NA, gforrest47@comcast.net  
Cibola Loop NA, learrael@aol.com



Cibola NA, josefree@yahoo.com  
Cibola NA, michael.alexander@altadt.com  
Cielito Lindo NA, clna87111@gmail.com  
Cielito Lindo NA, khattler@aol.com  
Cielito Lindo NA, pat.duda.52@gmail.com  
Citizens Information Committee of Martineztown, cicm-na@comcast.net  
Citizens Information Committee of Martineztown, kris042898@icloud.com  
Citizens Information Committee of Martineztown, martinez.renee@gmail.com  
Clayton Heights Lomas del Cielo NA, boyster2018@gmail.com  
Clayton Heights Lomas del Cielo NA, e\_molinadodge@yahoo.com  
Comanche Foothills NA, alldirectors@comanchefoothills.org  
Comanche Foothills NA, president@comanchefoothills.org  
Comanche Foothills NA, vicepresident@comanchefoothills.org  
Crestview Bluff Neighbors Association, alotero57@gmail.com  
Crestview Bluff Neighbors Association, crestviewneighbors@outlook.com  
Del Norte NA, fourofseven@comcast.net  
Del Norte NA, white1ink@aol.com  
Del Webb Mirehaven NA, adabneymmxix@gmail.com  
Del Webb Mirehaven NA, dwmnanm@gmail.com  
Del Webb Mirehaven NA, mnietoshogry@gmail.com  
Delamar NA, dmmarz@gmail.com  
Delamar NA, susanpatcarroll@gmail.com  
District 4 Coalition of NA, sedueweke@juno.com  
District 4 Coalition of NA, smgriffie@noreste.org  
District 4 Coalition of NA, ssec.dist4@gmail.com  
District 6 Coalition of NA, sinfo@willsonstudio.com  
District 6 Coalition of NA, sm.ryankious@gmail.com  
District 7 Coalition of NA, sjearnoldjones70@gmail.com  
District 7 Coalition of NA, smikekious@aol.com  
District 8 Coalition of NA, sdistrict8coalition@gmail.com  
District 8 Coalition of NA, sidaliat@gmail.com  
District 8 Coalition of NA, slamesainternationaldistrict@gmail.com  
District 8 Coalition of NA, snobullbob1@gmail.com  
District 9 East Gateway Coalition, dreikeja@comcast.net  
District 9 East Gateway Coalition, eastgatewaycoalition@gmail.com  
Downtown Neighborhoods Association, 1senn@sbcglobal.net  
Downtown Neighborhoods Association, sylvia4quality@gmail.com  
Eastrange Piedra Vista NA, erpvaabq@gmail.com  
Eastrange Piedra Vista NA, jrsphil1@hotmail.com  
Eastrange Piedra Vista NA, robertdebra4055@gmail.com  
Eastridge NA, tgrasmussen@msn.com

Eastridge NA, verrityg@yahoo.com  
EDo NA, Incorporateddavid@edoabq.com  
EDo NA, Incorporatedi robertson@titan-development.com  
Elder Homestead NA, elderhomesteadna@gmail.com  
Elder Homestead NA, m.ryankious@gmail.com  
Elder Homestead NA, sp-wonderwoman@comcast.net  
Embudo Canyon NA, dreikeja@comcast.net  
Embudo Canyon NA, ecnainabq@gmail.com  
Embudo Canyon NA, jhardgrave505@gmail.com  
Fair West NA, abqfairwest@gmail.com  
Fair West NA, nick@127tech.net  
Fair West NA, Turner.katherine@outlook.com  
Four Hills Village Association, fhvapres@gmail.com  
Four Hills Village Association, herbwright@peoplepc.com  
Gavilan Addition NA, bhaskins1@aol.com  
Gavilan Addition NA, slernst@aol.com  
Glenwood Hills NA, james.levy@gmail.com  
Glenwood Hills NA, woody761@yahoo.com  
Greater Gardner & Monkbridge NA, ggnaabq@gmail.com  
Greater Gardner & Monkbridge NA, ijwalkiw@hotmail.com  
Greater Gardner & Monkbridge NA, wood\_cpa@msn.com  
Heritage East Association of Residentshear.president@gmail.com  
Heritage East Association of Residents, realtyofnewmexico@gmail.com  
Heritage East Association of Residents, willpawl@msn.com  
Highland Business and NA, Incorporatedhallierossbach@gmail.com  
Highland Business and NA, Incorporatedhbanahighland@gmail.com  
Highland Business and NA, Incorporatedomardurant@yahoo.com  
Highlands North NA, emh@adexec.com  
Highlands North NA, reynolds@unm.edu  
Historic Old Town Association, president@albuquerqueoldtown.com  
Historic Old Town Association, secretary@albuquerqueoldtown.com  
Historic Old Town Associationzoning@albuquerqueoldtown.com  
Hodgin NA, austenwalsh@gmail.com  
Hodgin NA, malloryabq@msn.com  
Hoffmantown NA, padamsko@hotmail.com  
Hoffmantown NA, smurfmom@comcast.net  
Huning Castle NA, brenda.marks648@gmail.com  
Huning Castle NA, debzallen@ymail.com  
Huning Castle NA, hcnaalert@gmail.com  
Huning Highland Historic District Associationannlouisacarson@gmail.com  
Huning Highland Historic District Associationbsturge@gmail.com

Indian Moon NA, lmartin900@aol.com  
Indian Moon NA, ronzawis@abq.com  
Inez NA, donna.yetter3@gmail.com  
Inez NA, inezneighassn@yahoo.com  
Inez NA, yemaya@swcp.com  
Jerry Cline Park NA, bluestealth93@gmail.com  
Jerry Cline Park NA, ericshirley@comcast.net  
John B Robert NA, johnb.robertna@comcast.net  
John B Robert NA, larswells@yahoo.com  
John B Robert NA, suzy0910@comcast.net  
Juan Tabo Hills NA, andrea\_pentell@hotmail.com  
Juan Tabo Hills NA, richtriple777@msn.com  
Kirtland Community Associationbakieaikin@comcast.net  
Kirtland Community Associationkande0@yahoo.com  
Knapp Heights NA, dwillems2007@gmail.com  
Knapp Heights NA, valerie4nm@live.com  
La Mesa Community Improvement Association5058041113rw@gmail.com  
La Mesa Community Improvement Associationidalialt@gmail.com  
La Mesa Community Improvement Associationlamesainternationaldistrict@gmail.com  
La Sala Grande NA, Incorporatedkellypetre@gmail.com  
La Sala Grande NA, Incorporatedlsgna67@gmail.com  
Ladera West NA, heckert@swcp.com  
Ladera West NA, laderawestna@gmail.com  
Ladera West NA, slcnalbq@aol.com  
Las Lomas NA, annes@swcp.com  
Las Lomas NA, laslomasNA@gmail.com  
Las Lomas NA, r.griego04@comcast.net  
Las Terrazas NA, dvoth@uark.edu  
Las Terrazas NA, lasterrazasna@yahoo.com  
Las Terrazas NA, steidley@centurylink.net  
Laurelwood NA, laurelwoodna@gmail.com  
Laurelwood NA, wiseolga@gmail.com  
Lee Acres NA, abroyer1@msn.com  
Lee Acres NA, nissapatterson@gmail.com  
Loma Del Rey NA, jarmijo12@outlook.com  
Loma Del Rey NA, oronacarol@hotmail.com  
Los Altos Civic Associationathenalaroux@yahoo.com  
Los Altos Civic Associationdarlenesolis.laca@gmail.com  
Los Altos Civic Associationlosaltosneighborhood.abq@gmail.com  
Los Duranes NA, billherring@comcast.net  
Los Duranes NA, lee@lganm.com

Los Duranes NA, losduranesneighborhood@gmail.com  
Los Griegos NA, Igna505abq@gmail.com  
Los Griegos NA, losgriegosna2022@gmail.com  
Los Griegos NA, marybethorn@gmail.com  
Los Poblanos NA, don.newman@mac.com  
Los Poblanos NA, kjboutz@gmail.com  
Los Poblanos NA, mail@lospoblanosna.com  
Los Volcanes NA, douglascooper@hotmail.com  
Los Volcanes NA, nedcarla@live.com  
Mark Twain NA, bardean12@comcast.net  
Mark Twain NA, joel.c.wooldridge@gmail.com  
Matthew Meadow NA, Incorporatedhenryksloma@gmail.com  
Matthew Meadow NA, Incorporatedmatthewmeadowna@gmail.com  
Matthew Meadow NA, Incorporatedstaborel@q.com  
McDuffie Twin Parks NA, carolamorris@aol.com  
McDuffie Twin Parks NA, drakelavellefamily@gmail.com  
McDuffie Twin Parks NA, mtpassociation@gmail.com  
McKinley NA, jesselholly@gmail.com  
McKinley NA, lucerowilfred@gmail.com  
McKinley NA, mckinleyneighbor@gmail.com  
Mesa Del Sol NA, catburns87106@gmail.com  
Mesa Del Sol NA, dmills544@gmail.com  
Mile Hi NA, jbd2946@hotmail.com  
Mile Hi NA, mbcarr92@gmail.com  
Molten Rock NA, jillyeagley@swcp.com  
Molten Rock NA, vigilm75@hotmail.com  
Mossman NA, maryasena1@gmail.com  
Mossman NA, mossmanneighborhoodassociation@gmail.com  
Mossman NA, Mr.CraigDegenhardt@gmail.com  
Near North Valley NA, hnorfleet009@gmail.com  
Near North Valley NA, jsabatini423@gmail.com  
Near North Valley NA, nearnorthvalleyna@gmail.com  
Netherwood Park NA, netherwoodpark@gmail.com  
Netherwood Park NA, saramills@comcast.net  
Netherwood Park NA, wgannon@unm.edu  
Nob Hill NA, chrisafaith@icloud.com  
Nob Hill NA, meyster1@me.com  
Nob Hill NA, theboard@nobhill-nm.com  
Nor Este NA, rpmartinez003@gmail.com  
Nor Este NA, uri.bassan@noreste.org  
North Campus NA, maiamullen@gmail.com

North Campus NA, northcampusna@gmail.com  
North Campus NA, tdavisnm@gmail.com  
North Domingo Baca NA, hhowerton9379@msn.com  
North Domingo Baca NA, judiepellegrino@gmail.com  
North Eastern Association of ResidentsAburnett505@gmail.com  
North Eastern Association of ResidentsMMuddpi@gmail.com  
North Eastern Association of Residentsnear.neighborhood@gmail.com  
North Valley Coalitionjasalazarnm@gmail.com  
North Valley Coalitionnvcabq@gmail.com  
North Valley Coalitionpeggynorton@yahoo.com  
Ocate NA, alexanderrahimi@yahoo.com  
Ocate NA, president@ocateneighborhood.org  
Ocate NA, sharonr1492@gmail.com  
Oso Grande NA, info@osograndena.org  
Oso Grande NA, janiemc07@gmail.com  
Oso Grande NA, nobullbob1@gmail.com  
Paloma Del Sol NA, bob.mcelearney@yahoo.com  
Paloma Del Sol NA, rq1dq1@gmail.com  
Palomas Park NA, annwagner10@gmail.com  
Palomas Park NA, palomaspark@gmail.com  
Palomas Park NA, wmarsh7@comcast.net  
Paradise Hills Civic Association, elizabethkayhaley@gmail.com  
Paradise Hills Civic Association, kym.fleck@gmail.com  
Paradise Hills Civic Association, phcassoc@gmail.com  
Parkland Hills NA, peterkalitsis@gmail.com  
Parkland Hills NA, phnacommunications@gmail.com  
Parkway NA, parkwaypoint@yahoo.com  
Pat Hurley NA, julieradoslovich@gmail.com  
Pat Hurley NA, president.phna@gmail.com  
Pat Hurley NA, vicepresident.phna@gmail.com  
Peppertree Royal Oak Residents Association, a.verardo@comcast.net  
Peppertree Royal Oak Residents Association, jnapacheco@gmail.com  
Piedras Marcadas NA, debbie.a.koranyi@gmail.com  
Piedras Marcadas NA, pmnaabq@gmail.com  
Piedras Marcadas NA, rlawlor619@gmail.com  
Pueblo Alto NA, auntiesym@msn.com  
Pueblo Alto NA, panaabq@gmail.com  
Pueblo Alto NA, tyler.richter@gmail.com  
Quaker Heights NA, lillog2002@yahoo.com  
Quaker Heights NA, valarid@gmail.com  
Quigley Park NA, lisa.whalen@gmail.com

Quigley Park NA, mo01llama@gmail.com  
Quigley Park NA, quigley.park@gmail.com  
Quintessence NA, president@qna-abq.org  
Quintessence NA, qna.abq@gmail.com  
Rancho Sereno NA, aschwartz74@comcast.net  
Rancho Sereno NA, board@abqrsna.com  
Rancho Sereno NA, debracox62@comcast.net  
Raynolds Addition NA, janet.manry@gmail.com  
Raynolds Addition NA, perego.mauro@gmail.com  
Raynolds Addition NA, raynoldsneighborhood@gmail.com  
Rio Grande Boulevard NA, chowski83@gmail.com  
Rio Grande Boulevard NA, newmexmba@aol.com  
Riverview Heights NA, djclink2@msn.com  
Riverview Heights NA, tollhouse1@msn.com  
Route 66 West NA, cherquezada@yahoo.com  
Route 66 West NA, paulfava@gmail.com  
Sandia High School Area NA, john.l.jones.nm@gmail.com  
Sandia High School Area NA, mikekious@aol.com  
Santa Barbara Martineztown NA, lnjalopez@msn.com  
Santa Barbara Martineztown NA, salamdezia@gmail.com  
Santa Barbara Martineztown NA, sbmartineztown@gmail.com  
Santa Fe Village NA, ijlibretto@gmail.com  
Santa Fe Village NA, joannewright1949@gmail.com  
Santa Fe Village NA, sfvna2014@gmail.com  
Sawmill Area NA, browne.amanda.jane@gmail.com  
Sawmill Area NA, mari.kempton@gmail.com  
Sawmill Area NA, sawmillneighbor@gmail.com  
Siesta Hills NA, franchini3@gmail.com  
Siesta Hills NA, jolsen1204@gmail.com  
Siesta Hills NA, siesta2na.pres@gmail.com  
Siesta Hills NA, siesta2napres@gmail.com  
Silver Hill NA, evarockstar@msn.com  
Silver Hill NA, ja.montalbano@gmail.com  
Silver Hill NA, silverhillabq@gmail.com  
Singing Arrow NA, 123mbeck@gmail.com  
Singing Arrow NA, abqsana@gmail.com  
Singing Arrow NA, sasdelgado748@gmail.com  
South Broadway NA, abqsbna@gmail.com  
South Broadway NA, fparmijo@gmail.com  
South Broadway NA, onastine@gmail.com  
South Guadalupe Trail NA, jasalazarm@gmail.com

South Guadalupe Trail NA, nicgonzales0218@gmail.com  
South Los Altos NA, contact@slananm.org  
South Los Altos NA, debsla@swcp.com  
South Los Altos NA, notices@slananm.org  
South San Pedro NA, tallest@gmail.com  
South San Pedro NA, tmienterprises1@gmail.com  
South West Alliance of Neighborhoods (SWAN Coalition), gerulibbarri1@gmail.com  
South West Alliance of Neighborhoods (SWAN Coalition), housealbchrome@gmail.com  
Southeast Heights NA, jpate@molzencorbin.com  
Southeast Heights NA, pmbdoc@yahoo.com  
Southeast Heights NA, sehna.membership@gmail.com  
Spruce Park NA, emailbrowns@aol.com  
Spruce Park NA, pnsswift@comcast.net  
Stardust Skies Park NA, lovelyypeake@comcast.net  
Stardust Skies Park NA, mateo.stratton@gmail.com  
Stinson Tower NA, epchavez49@gmail.com  
Stinson Tower NA, rizzierinm@gmail.com  
Stinson Tower NA, stnapres@outlook.com  
Stronghurst Improvement Association Inc, 63aberdaber@gmail.com  
Stronghurst Improvement Association Inc, aberdaber@comcast.net  
Stronghurst Improvement Association Inc, wqsabatini@gmail.com  
Summit Park NA, jen.esquibel@gmail.com  
Summit Park NA, joebrooks@homesinabq.com  
Summit Park NA, summitparkNA@gmail.com  
Supper Rock NA, admin@supper-rock.org  
Supper Rock NA, kmotheirish@gmail.com  
Supper Rock NA, srock692@comcast.net  
Sycamore NA, mabdowa@gmail.com  
Sycamore NA, mg411@q.com  
Sycamore NA, richard@vigliano.net  
Taylor Ranch NA, aboard111@gmail.com  
Taylor Ranch NA, president@trna.org  
Taylor Ranch NA, rioreal@earthlink.net  
The Courtyards NA, jackiecooke@comcast.net  
The Courtyards NA, jaubele1012@comcast.net  
The Courtyards NA, thecourtyardsabq@gmail.com  
The Quail Springs NA, gstone@swcp.com  
The Quail Springs NA, laurah067@gmail.com  
Thomas Village NA, daniwammy@gmail.com  
Thomas Village NA, jwierzba@comcast.net  
Tres Volcanes NA, info@tresvolcanesna.org

Tres Volcanes NA, randm196@gmail.com  
Tres Volcanes NA, t0m2pat@yahoo.com  
Tuscany NA, hlhen@comcast.net  
Tuscany NA, tuscanylandscape@me.com  
Tuscany NA, vistadelnorte@me.com  
University Heights NA, info@uhanm.org  
University Heights NA, mandy@theremedyspa.com  
University Heights NA, sricdon@earthlink.net  
Valle Prado NA, jlbeutler@gmail.com  
Valle Prado NA, valle.prado.na@gmail.com  
Vecinos Del Bosque NA, drewjara72@gmail.com  
Vecinos Del Bosque NA, vdb87105@gmail.com  
Victory Hills NA, altheatherton@gmail.com  
Victory Hills NA, info@willsonstudio.com  
Victory Hills NA, victoryhills505@gmail.com  
Vineyard Estates NA, djesmeek@comcast.net  
Vineyard Estates NA, vineyardestates.na@gmail.com  
Vineyard Estates NA, zarecki@aol.com  
Vista Del Mundo NA, ccrum.vdm@gmail.com  
Vista Del Mundo NA, dproach@sandia.gov  
Vista Del Norte Alliance, jamessouter@msn.com  
Vista Del Norte Alliance, tuscanylandscape@me.com  
Vista Del Norte Alliance, vistadelnorte@me.com  
Vista Grande NA, bradyklovelady@gmail.com  
Vista Grande NA, Schaefer@unm.edu  
Vista Magnifica Association, beatfeet17@yahoo.com  
Vista Magnifica Association, madmiles@msn.com  
Wells Park NA, doreenmcknightnm@gmail.com  
Wells Park NA, edwina.kiro@yahoo.com  
Wells Park NA, wellsparkna@gmail.com  
West Mesa NA, housealbchrome@gmail.com  
West Mesa NA, westmesa63@gmail.com  
West Mesa NA, westmesaneighborhoodassociation@googlegroups.com  
West Old Town NA, g.clarke45@comcast.net  
West Old Town NA, rnorman@sunpinehomes.com  
West Old Town NA, westoldtownna@gmail.com  
West Park NA, cealleach1@gmail.com  
West Park NA, melvin.andrewsrn@gmail.com  
West Park NA, westparkna@gmail.com  
Westgate Heights NA, mattearchuleta1@hotmail.com  
Westgate Heights NA, navrmc6@aol.com



Westgate Heights NA, westgate9901@gmail.com  
Westside Coalition of NAs, aboard111@gmail.com  
Westside Coalition of NAs, elizabethkayhaley@gmail.com  
Wildflower Area NA, ggarcia103@comcast.net  
Wildflower Area NA, kbbh@hotmail.com  
Yale Village NA, donaldlove08@comcast.net  
Yale Village NA, klove726@gmail.com  
Yale Village NA, yalevillage@comcast.net  
  
Legal, nasanchez@cabq.gov  
EPC file

## ***Agency Comments***

### **PLANNING DEPARTMENT**

#### ***Long Range Planning***

The City of Albuquerque Municipal Development Department and Parks and Open Space Department are proposing to update the Bikeway and Trail Facility Plan to provide better and safer active transportation citywide. The Long-Range Planning team supports the adoption of an updated 2024 Bikeway and Trail Facility Plan. The update supports many Comprehensive Plan goals and policies, particularly those related to Transportation, but also Land Use, Urban Design, and Resilience & Sustainability. The Plan will help the City implement Centers and Corridors by providing connecting bike lanes and multi-use trails. This plan helps promote community health through active transportation and bikeways and trails that allow the community to experience and interact with open spaces and parks. The Plan also supports the City's equity goals by connecting communities to services, open spaces, and other destinations and by making active transportation available and safe for communities.

### **OTHER CITY OF ALBUQUERQUE DEPARTMENTS / OFFICES**

#### ***Solid Waste Department***

Vertical Separation will cause residents to have put their trash and recycle carts to the stripped area. Trash and recycle carts will no longer be able to be serviced with the wheels against the curb. 9-10-1-5 section E paragraph(3).

### **OTHER AGENCIES**

#### ***Albuquerque Metropolitan Arroyo Flood Control (AMAFCA)***

AMAFCA has no adverse comments to the 2024 Bikeway & Trail Facilities Plan. Continued coordination with AMAFCA is required for any trail/crossing that is proposed on AMAFCA's facilities.

#### ***Bernalillo County***

Bernalillo County Planning & Development Services supports adoption of the update to the Bikeways & Trails Facility Plan. The plan incorporates up-to-date bikeway planning and priorities. The focus on developing Network Spines that serve all ages and abilities and low-stress corridors is consistent with the Albuquerque/Bernalillo County Comprehensive Plan's Shared Regional Vision's Transportation section purpose to "to provide a sustainable, efficient and equitable transportation network that serves a variety of travel modes" and Transportation Policy c: "Improve community health and air quality through active transportation by encouraging walking and biking to schools, parks, community centers, cultural facilities, and commercial and employment centers, especially for underserved residents.

*Mid-Region Metropolitan Planning Organization (MRMPO)*

The following staff comments relate to transportation systems planning within the Albuquerque Metropolitan Planning Area (AMPA). Principal guidance comes from the 2040 Metropolitan Transportation Plan (MTP) and the maps therein; Transportation Improvement Program (TIP) for FFY 2016-2021; the Intelligent Transportation Systems (ITS) Regional Architecture; and the Roadway Access Policies of the Transportation Coordinating Committee (TCC) of the Metropolitan Transportation Board (MTB).

MRMPO has been consulted on the Bikeway and Trail Facilities plan update and has provided feedback during the development process of this plan. MRMPO has had opportunities to comment throughout, and City of Albuquerque has been communicative and receptive to the feedback and participation from MRMPO. The plan is well written and thought out and MRMPO supports the adoption of the plan update.

MRMPO will continue to review subsequent releases of the plan as necessary and provide input that incorporates the long-range transportation planning process and regional planning concepts.

*New Mexico Department of Transportation (NMDOT)*

Please coordinate with NMDOT District 3 Assistant Engineer, Margaret Haynes to discuss the Facility Plan's potential impacts to NMDOT facilities. Margaret.Haynes@dot.nm.gov, Cell: 505-288-2086.

*Public Service Company of New Mexico (PNM)*

Public Service Company of New Mexico (PNM) supports the City's efforts to update and implement the Bikeways and Trail Facilities Plan Making improvements and safe connections for bicyclists and pedestrians in a built environment designed for automobiles is a worthwhile challenge for all interested parties.

Please keep in mind existing electric utility facilities in the public right of way when planning, developing, and improving bicycle and trail infrastructure. Some PNM easements for power lines parallel to the public right-of-way or located along other infrastructure facilities may be appropriate for bicycle and/or trail facilities when coordinated with PNM.

Structures, especially those made of metal like canopies and benches should not be within PNM easements without close coordination with and agreement from PNM.

## A) HISTORY

**CITY of ALBUQUERQUE  
TENTH COUNCIL**

COUNCIL BILL NO. R-308 ENACTMENT NO. 100-1993

SPONSORED BY: Councillor Michael Brasher

**RESOLUTION**

ADOPTING THE TRAILS & BIKEWAYS FACILITY PLAN AS A RANK TWO FACILITY PLAN

WHEREAS, the Albuquerque/Bernalillo County Comprehensive Plan contains a number of policies supporting development of a metropolitan area-wide bicycle and multi-use trail network; and

WHEREAS, the Greater Albuquerque Recreational Trails Committee and the Greater Albuquerque Bicycling Advisory Committee have been closely involved in the development of this plan; and

WHEREAS, the Trails & Bikeways Facility Plan reflects the desires of area residents to develop a multi-use trail and bike network for both commuting and recreational uses; and

WHEREAS, the Environmental Planning Commission has held public hearings on the Trails & Bikeways Facility Plan and has recommended adoption of the plan; and

WHEREAS, the Bernalillo County Planning Commission has held public hearings on the Trails & Bikeways Facility Plan and has recommended adoption of the plan; and

WHEREAS, the Trails & Bikeways Facility Plan is a Rank Two Facility Plan implementing the Rank One Comprehensive Plan and recommends development standards, site locations, and establishes a multi-year program of capital improvements.

BE IT RESOLVED BY THE CITY COUNCIL, THE GOVERNING BODY OF THE CITY OF ALBUQUERQUE THAT:

Section 1. In order to further detail and implement the concepts of the Albuquerque/Bernalillo Comprehensive Plan, the Trails & Bikeways Facility Plan attached hereto and made a part hereof, is adopted as a

Underscored Material - New  
[Bracketed Material] - Deletion

Underscored Material - New  
[Bracketed Material] - Deletion

1 Rank Two Facility Plan for the area within the planning jurisdiction of  
2 the City of Albuquerque.  
3 Section 2. The Trails & Bikeways Facility Plan is commended to  
4 the County of Bernalillo for adoption.  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33


Underscored Material - New  
[Bracketed Material] - Deletion

1 PASSED AND ADOPTED THIS 19th DAY OF JULY, 1993.  
2 BY A VOTE OF: 9 FOR 0 AGAINST.

3  
4  
5  
6  
7  
8   
9 Vincent E. Griego, President  
City Council

10  
11 APPROVED THIS 29th DAY OF July, 1993.

12  
13  
14   
15 Louis E. Saavedra, Mayor  
City of Albuquerque

16 ATTEST:  
17   
18 City Clerk

1\_\_\_\_  
2\_\_\_\_  
3\_\_\_\_ RESOLUTION NO. AR 70-93

4\_\_\_\_ ADOPTING THE TRAILS & BIKEWAYS FACILITY PLAN

5\_\_\_\_ WHEREAS, the Albuquerque/Bernalillo County Comprehensive Plan  
6\_\_\_\_ contains a number of policies supporting development of a metropolitan  
7\_\_\_\_ area-wide bicycle and multi-use trail network; and

8\_\_\_\_ WHEREAS, the Greater Albuquerque Recreational Trails Committee and  
9\_\_\_\_ the Greater Albuquerque Bicycling Advisory Committee, which include  
10\_\_\_\_ representatives from Bernalillo County and are advisory to Bernalillo  
11\_\_\_\_ County, have been closely involved in the development of this plan; and

12\_\_\_\_ WHEREAS, the Trails & Bikeways Facility Plan reflects the desires  
13\_\_\_\_ of County residents to develop a multi-use trail and bike network for  
14\_\_\_\_ both commuting and recreational uses; and

15\_\_\_\_ WHEREAS, the Bernalillo County Planning Commission has held public  
16\_\_\_\_ hearings on the Trails & Bikeways Facility Plan and has recommended  
17\_\_\_\_ adoption of the plan; and

18\_\_\_\_ WHEREAS, the Trails & Bikeways Facility Plan implements the  
19\_\_\_\_ Albuquerque/Bernalillo County Comprehensive Plan and recommends  
20\_\_\_\_ development standards, site locations, and establishes a multi-year  
21\_\_\_\_ program of capital improvements.

22\_\_\_\_ BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSION, THE GOVERNING BODY OF  
23\_\_\_\_ THE COUNTY OF BERNALILLO:

24\_\_\_\_ Section 1. In order to further detail and implement the concepts  
25\_\_\_\_ of the Albuquerque/Bernalillo Comprehensive Plan, the Trails & Bikeways  
26\_\_\_\_ Facility Plan attached hereto and made a part hereof, is adopted for the  
27\_\_\_\_ area within the planning jurisdiction of the County of Bernalillo.

28\_\_\_\_ Section 2. The attached "amendments to the Trails & Bikeways  
29\_\_\_\_ Facility Plan" are approved and shall be incorporated into the final  
30\_\_\_\_ document.



ADOPTING THE TRAILS & BIKEWAYS FACILITY PLAN

was approved by the Bernalillo County Board of County Commissioners at  
the July 27, 1993, Commission Meeting.

BOARD OF COUNTY COMMISSIONERS

Patrick J. Baca, Chairman

Jacquelyn K. Schaefer, Vice-Chair

Eugene M. Gilbert, Member

Barbara J. Seward, Member

Albert "Al" Valdez, Member

APPROVED BY:

Tito D. Chavez

Tito Chavez, County Attorney

ATTEST:

Judy D. Woodward

Judy D. Woodward, County Clerk

**PLANNING DEPARTMENT**  
**URBAN DESIGN & DEVELOPMENT DIVISION**  
600 2nd Street NW, 3rd Floor, 87102  
P.O. Box 1293, Albuquerque, NM 87103  
Office (505) 924-3860 Fax (505) 924-3339

## **OFFICIAL NOTIFICATION OF DECISION**

October 9, 2014

City of Albuquerque  
Planning Department  
PO Box 1293  
Albuquerque, NM 87102

**Project# 1008887**  
14EPC-40054 Amendment to Rank II Bikeways &  
Trails Facility Plan

### **LEGAL DESCRIPTION:**

For the above action for the Rank II Bikeways &  
Trails Facility Plan, which applies City-wide.  
Staff Planner: Carrie Barkhurst

On October 9, 2014, the Environmental Planning Commission (EPC), unanimously voted to **RECOMMEND APPROVAL TO CITY COUNCIL** of Project# 1008887, 14EPC-40054, a request for an Amendment to Rank II Bikeways & Trails Facility Plan, based on the following Findings and Conditions:

### ***FINDINGS***

1. This is a request for adoption of the proposed Rank II Bikeways & Trails Facility Plan, which updates, consolidates, and replaces the Trails and Bikeways Facility Plan, 1993 and the Comprehensive On-Street Bicycle Plan, 2000. Rank II facility plans describe the existing facilities, policies, recommendations, and proposed projects.
2. The scope of the Bikeways and Trails Facility Plan is City-wide. It also shows trails within Bernalillo County's jurisdiction, which are not included on the list of City proposed projects.
3. The Albuquerque/Bernalillo County Comprehensive Plan, the Trails and Bikeways Facility Plan, 1993, and the Comprehensive On-Street Bicycle Plan, 2000 are incorporated herein by reference and made part of the record for all purposes.

OFFICIAL NOTICE OF DECISION

Project #1008887

October 9, 2014

Page 2 of 5

4. The proposed *Plan* aims to ensure a well-connected, enjoyable, and safe non-motorized transportation and recreation system throughout the metropolitan area. Updating the *Plan* is a reasonable exercise in local self-government consistent with the City Charter.
5. The proposed *Plan* supports the following applicable goals and policies of the Rank I Comprehensive Plan:
  - a. The *Plan* furthers the Open Space Network Goal and Policy II.B.1f by updating trail-related policy, design guidelines, and proposed trails projects. Part of the overarching vision of the plan is to provide recreation opportunities; the plan also recommends trails along arroyos and appropriate ditches as connections between natural areas and open spaces.
  - b. The *Plan* furthers the Semi-Urban Area Policy II.B.4b through designation of trails and trail corridor development policies for semi-urban areas.
  - c. The *Plan* furthers the Developing and Established Urban Areas Goal and Policy II.B.5g because the plan will help guide development of a system that contributes to creating a quality urban environment and that will increase choices in transportation and life styles. The plan will guide development of trail corridors in appropriate locations.
  - d. The *Plan* furthers the Environmental Protection Policy II.C.1d and the Transportation and Transit Goal by setting direction for investments in multi-modal transportation infrastructure, which will help protect air quality through a balanced circulation system that supports and encourages alternative means of transportation.
  - e. The *Plan* is generally consistent with Policy II.D.4h - A metropolitan area-wide recreational and commuter bicycle and trail network which emphasizes connections among Activity Centers shall be constructed and promoted. The proposed alignments have been evaluated to provide connection to and within most designated activity centers.
  - f. The *Plan* is generally consistent with Policy II.D.4i - Street and highway projects shall include paralleling paths and safe crossings for bicycles, pedestrians, and equestrians where appropriate. The *Plan* includes a Complete Streets Policy for bikeways and trails projects to be considered on all streets, as appropriate, throughout the street network. One of the critiques of the *Plan* is that it does not recommend access along major arterial streets, which have been demonstrated to have the highest bicycle and pedestrian crash rates.
  - g. The *Plan* is generally consistent with Policy II.D.4h - Efficient, safe access and transfer capability shall be provided between all modes of transportation. The City currently has excellent transfer capabilities between bicycle, train, and bus. Both the train and all City busses have capacity to hold multiple bicycles each. The *Plan* does not specifically address how to provide safe and convenient access to each bus stop, which is typically located on a major arterial street.

OFFICIAL NOTICE OF DECISION

Project #1008887

October 9, 2014

Page 3 of 5

- h. The *Plan* is generally consistent with Policy II.D.4q - Transportation investments should emphasize overall mobility needs and choice among modes in the regional and intra-city movement of people and goods. The *Plan* sets direction for investments in multi-modal transportation infrastructure and programs to enhance bicycling and walking options.
6. The proposed *Plan* is generally consistent with the key themes of the *2035 MTP* through its multi-modal vision, policies, and proposed facilities for pedestrians and cyclists throughout the City. The proposed facility map is consistent with the current LRBS map and will provide updates to the LRBS map when it is amended for the *2040 MTP*.
7. Key City departments, including Municipal Development, Parks & Recreation, and Planning, coordinated as part of this facility planning effort.
8. There is general support among the reviewing agencies and members of the public that the City should adopt the proposed *Bikeways & Trails Facility Plan*. The most notable exception to the general public support is from the City's Advisory Groups – GABAC and GARTC. Comments from GABAC & GARTC seem to indicate members would prefer not to have the two plans combined into one document.
9. While GABAC & GARTC remain as separate entities, to keep the spirit of the document as living, it is important for the groups to meet a couple of times each year, in collaboration.

***RECOMMENDED CONDITIONS OF APPROVAL***

1. The City shall continue to evaluation and amend the proposed facilities to consider any new or outstanding public comments related to bikeway and trail facilities that have not yet been reflected.
2. The City shall work to identify the extent of bicycle lanes and trails that may be deficient according to the current DPM standards and/or the BTFP's Design Manual.
3. The City shall explore the themes raised in the September 2014 Staff Report, public, departmental, and agency comments for additional information that should be included in the Snapshot document summary, including but not limited to exploring and adopting other communities' best-practices, allowing flexibility in the implementation of the plan if consistent with the main vision and goals, and the application of performance measures and data collection to evaluate progress in the implementation of this plan.

OFFICIAL NOTICE OF DECISION

Project #1008887

October 9, 2014

Page 4 of 5

4. The comments and recommendations made by **Parks & Recreation** shall be evaluated and incorporated into the draft Plan as feasible and appropriate.
  - a. Trails Maintenance Practices section and On-Street Facilities Maintenance should be consistent, i.e., use the subsections of: Current practices, recommendations, best practices, etc.
5. The comments and recommendations made by **Long Range Planning** shall be evaluated and incorporated into the draft Plan as feasible and appropriate.
  - b. More images – strive to have at least one image per chapter. Ideally, the images would be local to Albuquerque unless otherwise stated. Charts and diagrams are good; it's helpful to show photos of real people using our facilities.
  - c. Overall – Recommendations and conclusions – there is a lot of information in this plan. Where appropriate, summarize recommendations and conclusions.
6. Comments received from the **NMDOT** on October 9, 2014, shall be incorporated into the Facility Plan to the extent possible and as acceptable to the Municipal Development and Parks & Recreation Departments.
7. The BTFP shall reference and incorporate NACTO standards in the Design Manual and also recommend incorporation into the Development Process Manual (DPM).
8. The League of American Bicyclists Bicycle Friendly Communities application and report shall be reviewed to ensure the BTFP reflects their recommendations.
9. Secure a copy of the City's ADA Transition Plan, or draft version, to incorporate the content and/or recommendations into the BTFP as possible and as acceptable to the Municipal Development and Parks & Recreation Departments.

**APPEAL:** If you wish to appeal this decision, you must do so within 15 days of the EPC's decision or by **OCTOBER 24, 2014**. The date of the EPC's decision is not included in the 15-day period for filing an appeal, and if the 15<sup>th</sup> day falls on a Saturday, Sunday or Holiday, the next working day is considered as the deadline for filing the appeal.

For more information regarding the appeal process, please refer to Section 14-16-4-4 of the Zoning Code. A Non-Refundable filing fee will be calculated at the Land Development Coordination Counter and is required at the time the appeal is filed. It is not possible to appeal EPC Recommendations to City Council; rather, a formal protest of the EPC's Recommendation can be filed within the 15 day period following the EPC's

OFFICIAL NOTICE OF DECISION

Project #1008887

October 9, 2014

Page 5 of 5

decision.

You will receive notification if any person files an appeal. If there is no appeal, you can receive Building Permits at any time after the appeal deadline quoted above, provided all conditions imposed at the time of approval have been met. Successful applicants are reminded that other regulations of the City Zoning Code must be complied with, even after approval of the referenced application(s).

Sincerely,

Suzanne Lubar  
Planning Director

SL/KCB

cc:

John Thomas, 3025 Palo Alto Dr. NE, ABQ, NM 87111

Gary Kelly, 6325 Cuesta Pl. NW, ABQ, NM 87120

Scott Hale, 2321 Camino De Los Artesanos NW, ABQ, NM 87107

Lanny Tanning, 949 Montoya NW, ABQ, NM 87104

Austin Wetsch, 8208 Colfax Ave NE, ABQ, NM 87109

Silda Mason, 1419 Phoenix NW, ABQ, NM 87107

Susan Kelly, 713 Camino Espanol NW, ABQ, NM 87107

# CITY of ALBUQUERQUE

## TWENTY-FIRST COUNCIL

COUNCIL BILL NO. F/S R-14-142

ENACTMENT NO.

R-2015-045

SPONSORED BY: Isaac Benton, by request

### RESOLUTION

ADOPTING THE BIKEWAYS & TRAILS FACILITY PLAN (BTFP) AS A RANK II FACILITY PLAN. THE SCOPE OF THE BIKEWAYS AND TRAILS FACILITY PLAN IS CITY-WIDE.

WHEREAS, the City Council, the governing body of the City of Albuquerque, has the authority to adopt facility plans to promote the health, safety, and general welfare of the residents of Albuquerque, Section 3-19-1 et. Seq., NMSA 1978, and by its home rule powers; and

WHEREAS, people use both bikeways and trails for a variety of activities, including recreation, commuting, exercise, and utilitarian travel; and

WHEREAS, funding for both facilities comes from the same sources; and

WHEREAS, the City has determined that consolidating these plans into one document will help the City better manage the growth of the bikeways and multi-use trails system; and

WHEREAS, the primary goal of the *Bikeways & Trails Facility Plan* is to ensure a well-connected, enjoyable, and comfortable non-motorized transportation and recreation system throughout the metropolitan area; and

WHEREAS, the *Bikeways & Trails Facility Plan* intends to guide future investment in the bikeways & trails system, including facility improvements, new facilities, maintenance, and education/outreach programs; and

WHEREAS, the *Bikeways & Trails Facility Plan* is consistent with the applicable goals and policies of the *Albuquerque/Bernalillo County Comprehensive Plan*, the *Major Open Space Facility Plan*, and the *Facility Plan for Arroyos*; and

WHEREAS, on October 9, 2014, the Environmental Planning Commission (EPC), in its advisory role, voted that a Recommendation of Approval be

[Bracketed/Underscored Material] - New  
[Bracketed/Strikethrough Material] - Deletion

1 forwarded to City Council for Project 1008887, 14EPC-40054, a request for an  
2 Adoption of a Rank II *Bikeways & Trails Facility Plan*, as recommended in the  
3 findings within the staff report (see Record).

4 BE IT RESOLVED BY THE COUNCIL, THE GOVERNING BODY OF THE CITY OF  
5 ALBUQUERQUE:

6 Section 1. The City Council adopts the Following Findings:

7 1. The Rank II *Bikeways & Trails Facility Plan* updates, consolidates,  
8 and replaces the *Trails and Bikeways Facility Plan* (1993) and the  
9 *Comprehensive On-Street Bicycle Plan* (2000). Rank II facility plans describe  
10 the existing facilities, policies, recommendations, and proposed projects.

11 2. The scope of the *Bikeways and Trails Facility Plan* is City-wide. It  
12 also shows trails within Bernalillo County's jurisdiction to demonstrate  
13 regional connectivity, but which are not included as City proposed projects.

14 3. The purpose of the plan is to ensure a well-connected, enjoyable,  
15 and safe non-motorized transportation and recreation system throughout the  
16 metropolitan area. Updating the Plan is a reasonable exercise in local self-  
17 government consistent with the City Charter.

18 4. The *Albuquerque/Bernalillo County Comprehensive Plan*, the City of  
19 Albuquerque Zoning Code, the *Major Open Space Facility Plan*, the *Facility*  
20 *Plan for Arroyos*, the *Trails and Bikeways Facility Plan*, and the  
21 *Comprehensive On-Street Bicycle Plan* are incorporated herein by reference  
22 and made part of the record for all purposes.

23 5. The proposed plan supports the following applicable Goals and  
24 Policies of the Rank I *Albuquerque/Bernalillo County Comprehensive Plan*:

25 a. The Plan furthers the Open Space Network Goal and Policy II.B.1f by  
26 updating trail-related policy, design guidelines, and proposed trails projects.  
27 Part of the overarching vision of the plan is to provide recreation  
28 opportunities; the plan also recommends trails along arroyos and appropriate  
29 ditches as connections between natural areas and open spaces.

30 b. The Plan furthers the Semi-Urban Area Policy II.B.4b through  
31 designation of trails and trail corridor development policies for semi-urban  
32 areas.



1           c. The Plan furthers the Developing and Established Urban Areas Goal  
2 and Policy II.B.5g because the plan will help guide development of a system  
3 that contributes to creating a quality urban environment and that will increase  
4 choices in transportation and life styles. The plan will guide development of  
5 trail corridors in appropriate locations.

6           d. The Plan furthers the Environmental Protection Policy II.C.1d and the  
7 Transportation and Transit Goal by setting direction for investments in multi-  
8 modal transportation infrastructure, which will help protect air quality through  
9 a balanced circulation system that supports and encourages alternative  
10 means of transportation.

11           e. The Plan is generally consistent with Policy II.D.4h. A metropolitan  
12 area-wide recreational and commuter bicycle and trail network which  
13 emphasizes connections among Activity Centers shall be constructed and  
14 promoted. The proposed alignments have been evaluated to provide  
15 connection to and within most designated activity centers.

16           f. The Plan is generally consistent with Policy II.D.4i. Street and  
17 highway projects shall include paralleling paths and safe crossings for  
18 bicycles, pedestrians, and equestrians where appropriate. The Plan includes a  
19 Complete Streets Policy for bikeways and trails projects to be considered on  
20 all streets, as appropriate, throughout the street network. One of the critiques  
21 of the Plan is that it does not recommend access along major arterial streets,  
22 which have been demonstrated to have the highest bicycle and pedestrian  
23 crash rates.

24           g. The Plan is generally consistent with Policy II.D.4h. Efficient, safe  
25 access and transfer capability shall be provided between all modes of  
26 transportation. The City currently has excellent transfer capabilities between  
27 bicycle, train, and bus. Both the train and all City busses have capacity to hold  
28 multiple bicycles each. The Plan does not specifically address how to provide  
29 safe and convenient access to each bus stop, which is typically located on a  
30 major arterial street.

31           h. The Plan is generally consistent with Policy II.D.4q. Transportation  
32 investments should emphasize overall mobility needs and choice among  
33 modes in the regional and intra-city movement of people and goods. The Plan

1 sets direction for investments in multi-modal transportation infrastructure and  
2 programs to enhance bicycling and walking options.

3 6. The proposed Plan is generally consistent with the key themes of the  
4 2035 Metropolitan Transportation Plan (MTP) through its multi-modal vision,  
5 policies, and proposed facilities for pedestrians and cyclists throughout the  
6 City. The proposed facility map is consistent with the current LRBS map and  
7 will provide updates to the LRBS map when it is amended for the 2040 MTP.

8 7. Key City departments, including Municipal Development, Parks &  
9 Recreation, and Planning, coordinated as part of this facility planning effort.

10 8. There is general support among the reviewing agencies and  
11 members of the public that the City should adopt the proposed *Bikeways &*  
12 *Trails Facility Plan*.

13 9. The City's Advisory Groups for trail and bicycle facilities, The  
14 Greater Albuquerque Bicycle Advisory Committee and the Greater  
15 Albuquerque Recreational Trails Committee, should meet biannually to review  
16 implementation of the BTFP and consider any updates or changes that may  
17 be necessary.

18 Section 2. In order to implement the policies of the *Albuquerque/Bernalillo*  
19 *County Comprehensive Plan*, applicable Rank II and Rank III Plans, and the  
20 *Metropolitan Transportation Plan*, the *Bikeways & Trails Facility Plan*, with  
21 Appendices, attached hereto as Exhibit A, is hereby adopted and the *Trails &*  
22 *Bikeways Facility Plan* (1993) and the *Comprehensive On-Street Bicycle Plan*  
23 (2000) are repealed.

24 Section 3. EFFECTIVE DATE. This resolution shall take effect five days  
25 after publication by title and general summary.

26 Section 4. SEVERABILITY CLAUSE. If any section paragraph, sentence,  
27 clause, word, or phrase of this resolution is for any reason held to be invalid  
28 or unenforceable by any court of competent jurisdiction, such decision shall  
29 not affect the validity of the remaining provisions of this resolution. The  
30 Council hereby declares that it would have passed this resolution and each  
31 section, paragraph, sentence, clause, word or phrase thereof irrespective of  
32 any provisions being declared unconstitutional or otherwise invalid.

33 X:\CITY COUNCIL\SHARE\CL-Staff\_Legislative Staff\Legislation\21 Council\IR-142FSfinal.docx


1 PASSED AND ADOPTED THIS 18<sup>th</sup> DAY OF May, 2015  
2 BY A VOTE OF: 8 FOR 0 AGAINST.

3  
4 Excused: Peña

5  
6  
7  
8   
9 Rey Garduño, President  
10 City Council

11  
12  
13  
14 APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2015

15  
16  
17  
18 Bill No. F/S R-14-142

19  
20  
21  
22   
23 Richard J. Berry, Mayor  
24 City of Albuquerque

25  
26 ATTEST:

27  
28   
29 Natalie Y. Howard, City Clerk



# City of Albuquerque

## Office of the City Clerk

Richard J. Berry, Mayor

Trina Gurule, Interim City Clerk

### Interoffice Memorandum

June 3, 2015

To: CITY COUNCIL

From: NATALIE Y. HOWARD, CITY CLERK

Subject: BILL NO. C/S R-14-142; ENACTMENT NO. R-2015-045

I hereby certify that on June 2, 2015, the Office of the City Clerk received Bill No. C/S R-14-142 as signed by the president of the City Council, Rey Garduño. Enactment No. R-2015-045 was passed at the May 18, 2015 City Council meeting. Mayor Berry did not sign the approved Resolution within the 10 days allowed for his signature and did not exercise his veto power. Pursuant to the Albuquerque City Charter Article XI, Section 3, this Resolution is in full effect without Mayor's approval or signature. This memorandum shall be placed in the permanent file for Bill No. C/S R-14-142.

Sincerely,

  
Natalie Y. Howard  
City Clerk

COUNCIL BILL NO. R-115 ENACTMENT NO. 112-2000

Michael Brasher

2 ADOPTING THE ALBUQUERQUE ON-STREET COMPREHENSIVE BIKE PLAN  
3 AS A RANK TWO FACILITY PLAN.

9 WHEREAS, the Greater Albuquerque Bicycle Advisory Committee, the  
0 Greater Albuquerque Recreational Trails Committee and the bicycling  
1 community have been closely involved in the development of this plan and  
2 supports its concepts; and

16 WHEREAS, the *Albuquerque Comprehensive On-Street Bicycle Plan*  
17 furthers the intent of Resolution 91-1998 (R-70) by emphasizing the  
18 importance of multi-modal travel by providing access to residential,  
19 employment, shopping, recreational areas and schools; and

24 WHEREAS, the *Bicycle Plan* assists in meeting the transportation goals in  
25 the *Metropolitan Transportation Plan* (regional) and the *National Bicycling and*

1 ***Walking Study*** to increase trips made by bicycling for both the region and  
2 nation, respectively; and

3 WHEREAS, the ***Albuquerque Comprehensive On-Street Bicycle Plan***  
4 identifies the deficiencies in the existing bikeway system and recommends  
5 improvements to these facilities; and

6 WHEREAS, the ***Bicycle Plan*** develops a comprehensive bikeway network  
7 composed of on-street bikeways and off-street trail network that  
8 interconnects, eliminates missing links, and provides access to and from  
9 origins and destinations; and

10 WHEREAS, the ***Bicycle Plan*** develops an improved bikeway network that  
11 interconnects to transit routes to create an intermodal transportation system;  
12 and

13 WHEREAS, the ***Albuquerque Comprehensive On-Street Bicycle Plan***  
14 creates a bikeway network that encourages a more balanced transportation  
15 system that benefits the Albuquerque community, including but not limited to  
16 transportation, economic, environmental, health and quality of life benefits;  
17 and

18 WHEREAS, the “4-E” approach to bicycle safety (engineering, education,  
19 encouragement and enforcement) is addressed to encourage bicycling in the  
20 Albuquerque Metropolitan area; and

21 WHEREAS, the Environmental Planning Commission has held a public  
22 hearing on the ***Albuquerque Comprehensive On-Street Bicycle Plan*** and has  
23 recommended adoption of the plan.

24 BE IT RESOLVED BY THE COUNCIL, THE GOVERNING BODY OF THE CITY OF  
25 ALBUQUERQUE THAT:

26 Section 1. In order to further detail and implement the concepts of the  
27 ***Albuquerque/Bernalillo Comprehensive Plan***, the ***Albuquerque Comprehensive***  
28 ***On-Street Bicycle Plan*** attached hereto and made a part hereof, is adopted as  
29 a Rank Two Facility Plan for the area within the City of Albuquerque.

30 Section 2. The ***Albuquerque Comprehensive On-Street Bicycle Plan*** is  
31 commended to the Middle Rio Grande Council of Governments for adoption  
32 and inclusion into the ***Long-Range Bikeway System*** (regional map) and the  
33 ***Metropolitan Transportation Plan*** to be eligible for Federal funding.

1       **Section 3. SEVERABILITY CLAUSE.** If any section, paragraph, sentence,  
2 clause, word or phrase of this resolution is for any reason held to be invalid or  
3 unenforceable by any court of competent jurisdiction, such decision shall not  
4 affect the validity of the remaining provisions of this resolution. The Council  
5 hereby declares that it would have passed this resolution and each section,  
6 paragraph, sentence, clause, word or phrase thereof irrespective of any  
7 provisions being declared unconstitutional or otherwise invalid.

8       **Section 4. EFFECTIVE DATE AND PUBLICATION.** This resolution shall  
9 become effective five or more days after publication in full when a copy of the  
10 resolution is filed in the office of the County Clerk.

11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33

[+Bracketed/Underscored Material+] - New  
[-Bracketed/Strikethrough Material-] - Deletion

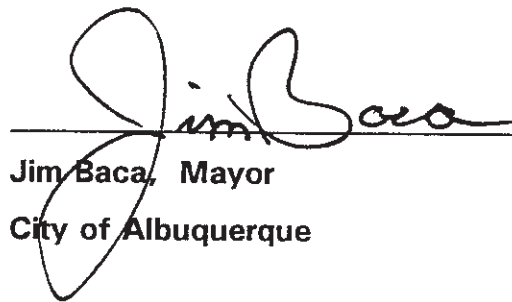
1 PASSED AND ADOPTED THIS 6th DAY OF NOVEMBER, 2000  
2 BY A VOTE OF: 9 FOR 0 AGAINST.  
3  
4  
5  
6  
7

8   
9

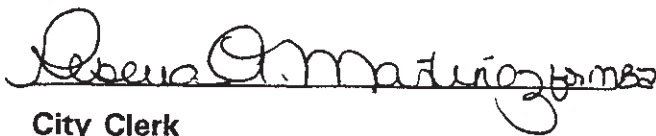
10 Michael Brasher, President  
11 City Council  
12  
13

14  
15 APPROVED THIS 27th DAY OF November, 2000 PC  
16

17 Bill No. R-115

18   
19  
20 Jim Baca, Mayor  
21 City of Albuquerque  
22

23 ATTEST:

24   
25  
26 City Clerk  
27  
28  
29  
30  
31  
32



# CITY of ALBUQUERQUE

## TWENTY FOURTH COUNCIL

COUNCIL BILL NO. O-21-63 ENACTMENT NO. D-2021-015

SPONSORED BY: Isaac Benton

1 **ORDINANCE**

2 **AMENDING THE SCOPE OF THE GREATER ALBUQUERQUE BICYCLING**  
3 **ADVISORY COMMITTEE, § 2-6-15 OF THE CODE OF ORDINANCES, TO**  
4 **INCLUDE ACTIVE TRANSPORTATION USERS, AND AMENDING THE TITLE OF**  
5 **THE COMMITTEE TO BE THE GREATER ALBUQUERQUE ACTIVE**  
6 **TRANSPORTATION COMMITTEE.**

7 **BE IT ORDAINED BY THE COUNCIL, THE GOVERNING BODY OF THE CITY OF**  
8 **ALBUQUERQUE:**

9 **SECTION 1. Findings and Intent. The City Council hereby finds that:**

10 **WHEREAS, the Greater Albuquerque Bicycling Advisory Committee**  
11 **(GABAC) was established by Ordinance 2-6-15 in 1974 to represent and advise**  
12 **the City on safe bicycling facilities on behalf of the on-street cycling**  
13 **community within the Albuquerque area; and**

14 **WHEREAS, the Greater Albuquerque Recreational Trails Committee**  
15 **(GARTC) was established by Ordinance 2-6-17 in 1974 to represent and advise**  
16 **the City on the needs of pedestrians, bicyclists, and equestrians along off-**  
17 **street trails; and**

18 **WHEREAS, the Americans with Disabilities Act Advisory Council was**  
19 **established by Ordinance 2-6-5 in 2015 to represent and advise the City on the**  
20 **needs of people with disabilities; and**

21 **WHEREAS, the Transit Advisory Board was established by Resolution 2-7-1**  
22 **in 1993 to advise the City Transit Department on the development and**  
23 **promotion of public transit services; and**

24 **WHEREAS, no City board, committee, or commission explicitly considers**  
25 **all of the non-vehicular users of on-street facilities; and**

[Bracketed/Underscored Material] - New  
[Bracketed/Strikethrough Material] - Deletion

1 WHEREAS, Active Transportation is defined as any self-propelled, human-  
2 powered mode of transportation, such as walking, bicycling, or using mobility  
3 devices; and

4 WHEREAS, the 2015 Bikeways and Trails Facility plan recommended  
5 restructuring of GABAC and GARTC in order to consider concerns beyond  
6 those of just the bicycling community; and

7 WHEREAS, the City's Vision Zero initiative is a commitment to create safer  
8 streets for all, regardless of our age or ability, whether we are walking, riding a  
9 bicycle, using a mobility device, driving, or taking transit; and

10 WHEREAS, the City adopted a Complete Streets ordinance in 2015 (F/S O-  
11 14-27), and updated the ordinance in 2019 (O-19-64), recommending the  
12 formation of an active transportation advisory committee to address issues of  
13 safety, public health, the environment, and equity for pedestrians and cyclists  
14 using City streets; and

15 WHEREAS, at the October 2020 GABAC meeting, GABAC passed a  
16 resolution calling for the adoption by ordinance of a reorganization of GABAC  
17 to address not only the needs of on-street cyclists but those of pedestrians  
18 and other non-automotive road users in ways that ensure equitable and safe  
19 facilities throughout the Albuquerque area.

20 SECTION 2. Section §2-6-15 of ROA 1994 is hereby amended to read as  
21 follows:

22 “§ 2-6-15 CITY OF ALBUQUERQUE’S GREATER ALBUQUERQUE ACTIVE  
23 TRANSPORTATION COMMITTEE.

24 (A) *Appointment.*

25 (1) The Mayor, with the advice and consent of the Council, shall  
26 appoint nine members of an advisory committee to be known as the City of  
27 Albuquerque's Greater Albuquerque Active Transportation Committee,  
28 (GAATC). The members shall be appointed by the city in the following manner,  
29 with one of the members also representing the Environmental Planning  
30 Commission:

31 (a) One member to represent Active Transportation users north  
32 of I-40 and east of I-25.

1 (b) One member to represent Active Transportation users south  
2 of I-40 and east of I-25.

3 (c) One member to represent Active Transportation users north  
4 of I-40 and west of I-25.

5 (d) One member to represent Active Transportation users south  
6 of I-40 and west of I-25.

7 (e) One member to represent older adults (over 60 years of age).

8 (f) One member to represent youth (under 24 years of age).

9 (g) One member to represent individuals with a disability.

10 (h) One member to represent pedestrians and transit users.

11 (i) One member to represent bicyclists.

12 (2) Each member shall understand and represent the needs of  
13 residents, particularly Active Transportation users.

14 (3) For the purposes of the GAATC, Active Transportation is defined  
15 as any self-propelled, human-powered mode of transportation, such as  
16 walking, bicycling, or using mobility devices.

17 (4) In voting, in the case of a tie, a motion shall be deemed defeated.

18 (B) *Duties, Responsibilities, Powers.* The Committee shall:

19 (1) Advise City departments and other governmental entities,  
20 including but not limited to the City Departments of Municipal Development  
21 (DMD) and Parks & Recreation, the Environmental Planning Commission  
22 (EPC), Bernalillo County, the Mid-Region Council of Governments, and the  
23 New Mexico Department of Transportation, concerning plans, projects, and  
24 programs in the greater Albuquerque area for bikeways, sidewalks, street  
25 crossings, and on-street multi-use trails, including but not limited to the  
26 Transportation Improvement Program and the Capital Improvements Program;  
27 and

28 (2) Advise the City on Vision Zero and Complete Streets projects and  
29 programs to support equitable, safe, and accessible Active Transportation  
30 options; and

31 (3) Monitor all on-street pedestrian and bicycling facilities and  
32 recommended implementation strategies for adopted plans for bikeways,  
33 sidewalks, street crossings, and on-street multi-use trails; and

1 (4) Promote bicycling and other modes of Active Transportation in  
2 the greater Albuquerque area for both transportation and recreation; and

3 (5) Promote safety and safety education for all Active  
4 Transportation modes; and

5 (6) Promote facilities and amenities for bicycling and other modes  
6 of Active Transportation in the greater Albuquerque area; and

7 (7) Except where modified by this section, the provisions §§ 2-6-1-  
8 1 et seq. apply to all duties, powers, and procedures of the Committee.

9 (C) *Ratification of Prior Actions and Continuation of Terms of Board*  
10 *Members.*

11 (1) The actions of the Committee established by the previous  
12 ordinance are hereby ratified, and the Committee members appointed  
13 pursuant to the previous ordinance shall continue to serve until their  
14 successors are appointed and confirmed pursuant to §§ 2-6-1-1 et seq. Any  
15 current Committee member eligible for re-appointment under the previous  
16 constitution of the Committee may be appointed to the like position  
17 constituted under this ordinance; the first of such appointments shall count as  
18 a second term for such existing Committee member.

19 (2) The terms of the Committee members shall be for three years  
20 except that for the first term after the enactment of this ordinance, the terms  
21 shall expire as follows:

22 (a) Committee member representing Active Transportation users  
23 north of I-40 and east of I-25, the term expires April 1, 2022;

24 (b) Committee member representing Active Transportation users  
25 south of I-40 and east of I-25, the term expires April 1, 2022;

26 (c) Committee member representing Active Transportation users  
27 north of I-40 and west of I-25, the term expires April 1, 2023;

28 (d) Committee member representing Active Transportation users  
29 south of I-40 and west of I-25, the term expires April 1, 2023;

30 (e) Committee member representing older adults, the term  
31 expires April 1, 2024;

32 (f) Committee member representing youth, the term expires April  
33 1, 2024;

1 (g) Committee member representing individuals with a disability,  
2 the term expires April 1, 2023;

3 (h) Committee member representing pedestrians and transit  
4 users, the term expires April 1, 2024;

5 (i) Committee member representing bicyclists, the term expires  
6 April 1, 2022.”

7 SECTION 3. COMPILATION. Section 2 of this Ordinance shall be  
8 incorporated in and made part of the Revised Ordinances of Albuquerque, New  
9 Mexico, 1994.

10 SECTION 4. EFFECTIVE DATE. This Ordinance shall take effect five (5)  
11 days after publication by title and general summary.

12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33

[Bracketed/Underscored Material] - New  
[Bracketed/Strikethrough Material] - Deletion

X:\CL\SHARE\CL-Staff\_Legislative Staff\Legislation\24 Council\O-63final.docx

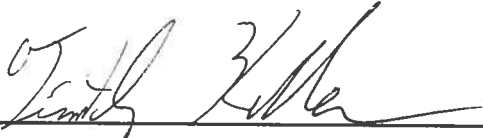
1 PASSED AND ADOPTED THIS 7<sup>th</sup> DAY OF June, 2021  
2 BY A VOTE OF: 7 FOR 0 AGAINST.  
3  
4


5 Excused: Bassan, Harris

6  
7   
8 Cynthia D. Borrego, President  
9 City Council

10  
11  
12  
13 APPROVED THIS 14 DAY OF June, 2021  
14  
15  
16

17  
18 Bill No. O-21-63

19  
20  
21   
22  
23 Timothy M. Keller, Mayor  
24 City of Albuquerque  
25

26  
27 ATTEST:  
28   
29  
30 Ethan Watson, City Clerk  
31  
32  
33

[+Bracketed/Underscored Material+] - New  
[-Bracketed/Strikethrough Material-] - Deletion

## B) APPLICATION INFORMATION

## Form Z: Policy Decisions

**Please refer to the EPC hearing schedule for public hearing dates and deadlines. Your attendance is required.**

**A single PDF file of the complete application including all plans and documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided on a CD.**

☐ **INFORMATION REQUIRED FOR ALL POLICY DECISIONS (Except where noted)**

- ☐ Interpreter Needed for Hearing? ☐ if yes, indicate language: \_\_\_\_\_
- ☐ Proof of Pre-Application Meeting with City staff per IDO Section 14-16-6-4(B)
- ☐ Letter of authorization from the property owner if application is submitted by an agent
- ☐ Traffic Impact Study (TIS) form (*not required for Amendment to IDO Text*)
- ☐ Zone Atlas map with the entire site/plan amendment area clearly outlined and labeled (*not required for Amendment to IDO Text*) NOTE: For Annexation of Land, the Zone Atlas must show that the site is contiguous to City limits.

☐ **ADOPTION OR AMENDMENT OF COMPREHENSIVE PLAN**

☒ **ADOPTION OR AMENDMENT OF FACILITY PLAN**

- ☒ Plan, or part of plan, to be amended with changes noted and marked
- ☒ Letter describing, explaining, and justifying the request per the criteria in IDO Sections 14-16-6-7(A)(3) or 14-16-6-7(B)(3), as applicable
- ☒ Required notices with content per IDO Section 14-16-6-4(K)(6)
  - ☒ Office of Neighborhood Coordination notice inquiry response, notifying letter, and proof of first class mailing
  - ☒ Proof of emailed notice to affected Neighborhood Association representatives
  - ☐ N/A Buffer map and list of property owners within 100 feet (excluding public rights-of-way), notifying letter, and proof of first class mailing

☐ **AMENDMENT TO IDO TEXT**

- ☐ Section(s) of the Integrated Development Ordinance to be amended with changes noted and marked
- ☐ Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-7(D)(3)
- ☐ Required notices with content per IDO Section 14-16-6-4(K)(6)
  - ☐ Office of Neighborhood Coordination notice inquiry response, notifying letter, and proof of first class mailing
  - ☐ Buffer map and list of property owners within 100 feet (excluding public rights-of-way), notifying letter, and proof of first class mailing

☐ **ZONING MAP AMENDMENT – EPC**

☐ **ZONING MAP AMENDMENT – COUNCIL**

- ☐ Proof of Neighborhood Meeting per IDO Section 14-16-6-4(C)
- ☐ Letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-7(F)(3) or Section 14-16-6-7(G)(3), as applicable
- ☐ Required notices with content per IDO Section 14-16-6-4(K)(6)
  - ☐ Office of Neighborhood Coordination notice inquiry response, notifying letter, and proof of first class mailing
  - ☐ Proof of emailed notice to affected Neighborhood Association representatives
  - ☐ Buffer map and list of property owners within 100 feet (excluding public rights-of-way), notifying letter, and proof of first class mailing
- ☐ Sign Posting Agreement

☐ **ANNEXATION OF LAND**

- ☐ Application for Zoning Map Amendment *Establishment of zoning must be applied for simultaneously with Annexation of Land.*
- ☐ Petition for Annexation Form and necessary attachments
- ☐ Letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-7(E)(3)
- ☐ Board of County Commissioners (BCC) Notice of Decision

**I, the applicant or agent, acknowledge that if any required information is not submitted with this application, the application will not be scheduled for a public meeting or hearing, if required, or otherwise processed until it is complete.**

Signature: *Valerie Hermanson*

Date: June 4, 2024

Printed Name: Valerie Hermanson

☒ Applicant or ☐ Agent

**FOR OFFICIAL USE ONLY**

Project Number:

Case Numbers

-

-

-

Staff Signature:

Date:





June 4, 2024

Jonathan R. Hollinger, Chair  
Environmental Planning Commission  
c/o City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102



Dear Chair Hollinger:

The City of Albuquerque's Department of Municipal Development (DMD) is pleased to submit this letter of justification, as required by IDO Subsection 14-16-6-7(B) Adoption or Amendment of Facility Plan. This application is for an amendment to the City's Bikeway and Trail Facilities Plan (2024 BTFP), which was last adopted in 2015. The Department of Municipal Development looks forward to the Environmental Planning Commission's review and recommendation to the City Council.

Since November 2022, staff from DMD and Parks and Recreation (PRD) worked with other City Departments and Divisions such as Planning, ABQ RIDE, Traffic Engineering, and City Council and with advocates and community representatives to update the 2015 Bikeway and Trail Facilities Plan (2015 BTFP).

It has been nearly a decade since the City took a comprehensive look at its bicycling infrastructure and the needs of people who bike. In that period, practices for bikeway facility design have evolved significantly, and the City has prioritized reversing the rise in traffic fatalities and addressing the safety of its most vulnerable road users through Vision Zero. Additionally, the City has identified sustainability goals and transportation mode share shift opportunities through the Climate Action Plan. Since the previous plan was last adopted in 2015, the City has also adopted major new policies and regulatory documents, including the *Albuquerque/Bernalillo County Comprehensive Plan*, *Development Process Manual*, the *Integrated Development Ordinance*, and Complete Streets policies.

Updating the BTFP served as an opportunity to create consistency and alignment with these recently adopted plans and policies and ensure the 2024 BTFP served as a mechanism to implement goals and policies identified in the *Albuquerque/Bernalillo County Comprehensive Plan*. It was also an opportunity to center the needs of historically underserved communities and ensure an equitable distribution of bikeways across the city. The 2024 BTFP also identifies critical improvements that can make bicycling across the City of Albuquerque safer, more comfortable, and accessible to more people while establishing a clear vision for prioritizing and implementing proposed projects. The 2024 BTFP also identifies key planning, policy, and programmatic actions that complement and enhance the proposed bikeway networks.

The 2024 BTFP identifies targeted updates to reflect emerging best practices in planning for and implementing a bikeway and trail system that can support both transportation and recreational bicycling activities. The 2024 BTFP focuses specifically on City-led improvements to on-street bikeways, including bike boulevards and various forms of bike lanes, and paved multi-use trails, with an emphasis on enhanced crossings where trails intersect with major roads that make it easier for people walking and biking to cross the street.

#### **How did this project begin?**

In the summer of 2022, staff from Parks and Recreation and the Department of Municipal Development reviewed the 2015 Bikeway and Trail Facilities Plan (2015 BTFP) noting the plan needed to be updated.

Specifically, there were many inconsistencies between the 2015 BTFP and City plans and policies since the *Comprehensive Plan*, *Development Process Manual*, and *Integrated Development Ordinance* had been completely overhauled and adopted. Additionally, the City adopted a Complete Streets policy, Vision Zero Action Plan, and Climate Action Plan. Staff learned the 2015 BTFP was largely put together in 2009/2010, with additional information added from 2012 to 2014, and the City adopted the BTFP in 2015. Bicycle planning has advanced since 2009/2010 and the paradigm of creating more bikeable communities has shifted further between 2015 and today. For example, there is more national guidance, best practices, and more acceptance and demand for all ages and abilities bikeways through the United States Department of Transportation (USDOT) and organizations such as the National Association of City Transportation Officials (NACTO). Additionally, separated bike lanes also known as protected bike lanes can be found in cities around the United States. With investments in all ages and abilities bikeways such as separated bike lanes, cities are seeing higher rates of bicycling for transportation and greater gender parity in bicycling. This paradigm shift has also occurred in engineering, with the most recent Manual on Uniform Traffic Control Devices (MUTCD) adding separated bike lanes. Importantly, there has been more emphasis on equity in transportation with the acknowledgment that disadvantaged communities experience a disproportionate number of traffic fatalities and serious injuries – particularly for people walking and biking. This is true nationally and in Albuquerque when looking at data behind the City’s High Fatal and Injury Network overlaid with the vulnerability index, which identifies disadvantaged communities and communities that rely on walking and biking to meet daily needs. When looking at a map of existing bikeways in Albuquerque, access to low-stress bikeways is not evenly distributed across the City of Albuquerque. The International District, for example, has no meaningful low-stress bikeways, despite being home to a high number of lower-income individuals and families who either cannot afford or must make large financial sacrifices to own and drive a car.

Updating the 2015 BTFP was an opportunity to align the plan with recently adopted local plans and policies, and incorporate national best practices to help create an all ages, abilities, and backgrounds bike network that can serve Albuquerque residents and visitors today and in the future.

### **Key Changes between the 2015 BTFP and the 2024 BTFP**

The 2015 Bikeways and Trails Facility Plan, initially developed between 2009 and 2014 and approved in 2015, covered a wide range of bicycle, pedestrian, and trail-related issues. Key recommendations from the 2015 BTFP have been accomplished, including numerous bikeway improvements, while elements from the Design Manual chapter of the 2015 BTFP have been integrated into the City’s *Development Process Manual*.

The 2024 BTFP focuses specifically on recommendations related to on-street bikeways and paved multi-use trails, including ways to reconfigure existing roads to make bikeways more comfortable, and replaces those elements from the 2015 BTFP. Major changes include a revised approach to project identification and prioritization, updated project priority lists, as well as policy and programmatic recommendations and considerations for accommodating e-bikes on paved trails and sidepaths. After adoption, 2024 BTFP recommendations are intended to be integrated into the regional Long Range Bikeway System, maintained by the Mid Region Council of Governments (MRCOG). The 2024 BTFP does not consider certain elements covered in the 2015 BTFP, namely unpaved trails, equestrian needs, and recreational facilities within City parks and open space. These items are maintained from the 2015 BTFP within the 2024 BTFP; however, there are opportunities to revise additional chapters, sections, or appendices of the 2024 BTFP as needed in the future. MRCOG will continue to lead recommendations on unbuilt future roads.

The table below is a high-level summary of key changes between the 2015 BTFP and the 2024 BTFP.

Table 1: High-Level Summary of Key Changes between the 2024 BTFP and the 2015 BTFP

2024 BTFP New or Updated	Maintained from the 2015 BTFP
<ul style="list-style-type: none"> <li>• New outreach and public input opportunities to inform 2024 BTFP recommendations</li> <li>• Revised vision statement, goals, and priorities</li> <li>• Recommending bikeways based on an all ages, abilities, and backgrounds and low-stress bikeways</li> <li>• Updated bikeway project identification, including facility type, improvement strategy (striping vs. major construction), priority level (low, medium, high), implementation time frame (near term vs. long term), and means of implementation (resurfacing project, standalone projects, or part of larger roadway improvement)</li> <li>• New crossing projects identified and prioritized where paved multi-use trails and bike boulevards cross major roads</li> <li>• New bikeway evaluation and prioritization process that considers equity and safety (Appendix D).</li> <li>• New and updated planning, policy, and programmatic recommendations (Chapter 6 Implementation)</li> <li>• Recommendations for sidepath and trail design to better accommodate e-bike users</li> <li>• Estimated project cost estimates (Appendix F)</li> <li>• Bike Boulevard Toolkit (Appendix E) – complements <i>Comp Plan</i>, <i>DPM</i>, Neighborhood Traffic Management Program, and Bicycle and Trail Crossing Guide to design consistent bike boulevards</li> <li>• Bicycle and Trail Crossings Guide (Appendix J) – incorporates Federal Highway Administration (FHWA) guidance, and DPM to prioritize and identify midblock crossing locations and the appropriate treatment</li> </ul>	<ul style="list-style-type: none"> <li>• Equestrian and pedestrian considerations</li> <li>• Unpaved trails</li> <li>• Trail Maintenance and Operations</li> <li>• Additional considerations for multi-use trails (Appendix H)</li> <li>• Several action items not yet implemented from the 2015 plan such as ribbon cuttings for implementing bikeway projects, bikeway evaluation and reporting as bikeways are built, improve maintenance</li> <li>• Bikeways along future roads: Refer to the Mid-Region Council of Government’s Long Range Bikeway System for alignments and proposed facility types</li> </ul>

This application proposes to amend the 2015 Bikeway and Trail Facilities Plan.

### **Justification for an Amendment to the Bikeway and Trail Facilities Plan**

The proposed amendment of the Bikeway and Trail Facilities Plan meets the Review and Decision Criteria in IDO Subsection 14-16-6-7(B) for the Adoption or Amendment of a Comprehensive Plan or Facility Plan.

- 1. 6-7(B)(3) Review and Decision Criteria.** An application for Adoption or Amendment of a Facility Plan shall be approved if it meets all the following criteria.

6-7(B)(3)(a) The proposed plan or amendment is consistent with the spirit and intent of the *ABC Comp Plan*, as amended, and with other policies and plans adopted by the City Council.

**Applicant response:** The amended Bikeway and Trail Facilities Plan (2024 BTFP) is consistent with and supports the spirit and intent of the *Albuquerque/Bernalillo County Comprehensive Plan (Comp Plan)*, as amended, and with other policies and plans adopted by the City Council. The plan generally furthers a preponderance of applicable *Comp Plan* Goals and Policies, which are discussed below. It also generally furthers other plans and policies adopted by the City Council, including the *Complete Streets Policy (2019)*, *Vision Zero Year-in-Review/Action Plan Update (2023)*, and the *Climate Action Plan (2021)*.

#### ***Goal 5.1 Centers & Corridors: Grow as a community of strong Centers connected by a multi-modal network of Corridors.***

The 2024 BTFP furthers the Goal to grow as a community of strong Centers connected by a multi-modal network of Corridors, specifically related to biking, with plan recommendations also benefiting people who walk and take transit. Albuquerque has a strong transportation network for people who drive automobiles to conveniently travel along Corridors and between Centers. The 2024 BTFP will create a more multi-modal network because it includes recommendations for both on and off-street bikeway projects that will connect Centers through a network of low-stress, safe, and connected bicycling corridors. Proposed on-street bikeways include, bike routes, bike lanes, buffered bike lanes, and separated bike lanes. Proposed off-street projects include sidepaths and paved multi-use trails, which benefit people walking and biking. When proposing bikeways, the project team referenced the Table 7-5 Priority Street Elements Matrix from the *Comp Plan* and considered whether the Corridor (for example, multi-modal, main street) or Center (for example, downtown, activity center) had bicycle facilities as a high, medium, or low priority element depending on the type of Corridor or Center. As Albuquerque grows, projects in the plan can be implemented to improve bike connectivity to Centers and along Corridors.

While on-street bicycling projects improve conditions for people biking, they also improve conditions for people walking by providing buffer space between where people are driving and where people are walking. Bicycle projects can also improve access to transit since most transit trips begin and end with a walk or a bike trip.

The 2024 BTFP also recommends crossing improvements at major streets, which benefits people walking, biking, and accessing transit. Crossing improvements were identified using the *Bicycle and Trail Crossings Guide (Appendix J)*, which also references the *Comp Plan* Centers and Corridors, reducing crossing distances, and providing median refuge islands for people walking and biking. Ultimately, as the community grows, implementing the proposed on and off-street bikeways and enhanced crossings will contribute to strengthening Centers by creating a connected and accessible multi-modal network of Corridors. Implementing bikeway projects identified in the 2024 BTFP can serve as a strategy to implement this Goal.

The project team prioritized proposed projects using *Comp Plan* Centers as a metric for receiving points. For example, if a proposed bikeway project connected Centers, it would receive additional points. Some bikeway projects are proposed along Corridors where appropriate and where a low-stress facility is feasible. If a low-stress facility was not feasible along a Corridor, the project team identified a low-stress parallel route with close proximity to the corridor to support multi-modal connectivity.

***Policy 5.1.11 Multi-Modal Corridors: “Design safe Multi-Modal Corridors that balance the competing needs of multiple modes of travel and become more mixed-use and pedestrian-oriented over time.”***

The 2024 BTFP furthers the Policy to design safe Multi-Modal Corridors that balance the competing needs of multiple modes of travel and become more mixed-use and pedestrian-oriented over time. One of the 2024 BTFP's purposes and approaches is to focus on making biking a safer and more appealing option for people of all ages, abilities, and backgrounds by recommending bikeway projects that are low-stress, safe, and comfortable. The project team considered the context of all streets or roadways, including Multi-Modal Corridors from the *Comp Plan*, the Priority Street Elements Matrix, and the bikeway priority level when making recommendations to improve existing or propose new bicycling facilities. The project team also considered whether a proposed project would be near or long-term, so recommendations in this plan will be implemented as a Multi-Modal Corridor becomes more mixed-use and pedestrian-oriented and as Multi-Modal Corridors are retrofitted or reconstructed. Bikeway improvements also impact and improve the pedestrian realm and contribute to a corridor's multi-modal transportation options by making it safer and more comfortable to walk and improving first and last-mile connectivity to transit. Adding on-street bicycling facilities provides a buffer between faster-moving automobile traffic and where people are walking. Bikeway improvements can also be iterative so that when new or more mixed-use development is constructed, complementary bikeways can also be implemented.

***Sub-policy b): “Prioritize improvements that increase pedestrian safety and convenience and make bicycle and transit options more viable.”***

The 2024 BTFP furthers the Sub-policy to prioritize improvements that increase pedestrian safety and convenience and make bicycle and transit options more viable. The 2024 BTFP prioritizes a variety of on and off-street bikeway projects that will increase pedestrian safety and convenience and make bicycle and transit options more viable. On-street bike projects provide a buffer between where people are driving automobiles and where people are walking, which makes it safer, more comfortable, and convenient to walk to destinations and to reach transit. Bike lanes are also identified by the Federal Highway Administration as a proven safety countermeasure. Separated bicycle lanes with flexible delineator posts can reduce bicycle/vehicle crashes by up to 53%. Standard bicycle lanes on urban 4-lane undivided collectors and local roads can reduce total crashes by 49%. Bike lanes on urban 2-lane undivided collectors and local roads can reduce total crashes by 30%.

Off-street bike projects support safety and convenience for people walking, biking, and taking transit by providing access to different transportation or recreation options making these modes more viable. The 2024 BTFP also identifies and prioritizes crossing improvements where bike boulevards and multi-use trails cross major streets, which makes it easier and safer for people walking or biking to cross the street. Each crossing location is context-dependent meaning it could mean adding a median refuge island paired with a pedestrian hybrid beacon (PHB) or rectangular rapid flashing beacon (RRFB) or adding a crosswalk. Median refuge islands, PHBs, and RRFBs are each a FHWA countermeasure proven to improve safety. When it feels

safe to walk, bike, and reach transit, people will be more likely to do so, which makes walking, biking, and transit more viable transportation options.

***Sub-policy c): “Encourage lower auto traffic speeds and narrower traffic lanes to accommodate other modes of travel in more intense and active areas along the corridor.”***

The 2024 BTFP supports the Sub-policy to encourage lower auto traffic speeds and narrower traffic lanes to accommodate other modes of travel in more intense and active areas along the corridor. The 2024 BTFP identifies on-street bikeway projects in locations where there are opportunities to narrow travel lanes or road diet a roadway to create space to accommodate a bike lane, buffered bike lane, separated bike lane, or improve a substandard bike lane while also being within or connecting to more intense and active areas along the corridor. Road diets are a Federal Highway Administration proven safety countermeasure meaning they have been proven to improve safety for all roadway users and can lead to a 19 – 47% reduction in crashes. Road diets reconfigure existing travel lanes to accommodate other transportation modes. For example, if there are four travel lanes (two travel lanes in each direction for people driving), a road diet would remove one travel lane in each direction and reconfigure the existing space to equal one travel lane in each direction and a two-way left turn lane for drivers and add bike lanes in each direction. The 2024 BTFP identified traffic volume thresholds where applying a road diet can be supported. Lane narrowing means narrowing automobile travel lanes. For example, converting a 12-foot travel lane to a 10-foot lane can encourage and influence drivers to slow down. This extra space can be added to create a new bikeway, buffer a bike lane, or improve a substandard bike lane. These treatments can improve safety by encouraging lower traffic speeds and better-defining roadway space for all roadway users.

***Goal 6.1 Land Use – Transportation Integration: Plan, develop, operate, and maintain a transportation system to support the planned character of existing and future land uses.***

The 2024 BTFP furthers the Goal for transportation integration and to plan, develop, operate, and maintain a transportation system to support the planned character of existing and future land uses because the plan makes recommendations for bicycling and bicycling is part of the transportation system and the project team considered land use when making recommendations. The 2024 BTFP serves as a roadmap and a plan to develop, operate, and maintain on and off-street bikeway networks, which are a key part of the transportation system. Existing and future land use played an important role for the project team in determining the appropriate bikeway recommendations identified in the plan. Facility types were recommended based on existing roadway and land use conditions. The project team referenced the Priority Street Elements Matrix from the *Comp Plan* and considered whether the Corridor or Center had bicycle facilities as a high, medium, or low priority element depending on the type.

Some projects were identified as longer-term knowing for land areas that have not yet been built out and as they build out, bikeway projects can be implemented. For unbuilt roadways surrounded by unbuilt areas, the 2024 BTFP recommends following the Mid-Region Council of Government’s (MRCOG) Long Range Bikeway System (LRBS). The City of Albuquerque along with other MRCOG member agencies such as Bernalillo County participate in MRCOG’s process to update the LRBS every four years. When updating the LRBS, staff will consider future land uses and Table 7-5 Priority Street Element Matrix from the *Comp Plan* when making recommendations to determine the appropriate bikeway type.

The 2024 BTFP also created a Bikeway Evaluation Process to reflect plan goals and emerging City policy priorities. The Bikeway Evaluation Process includes nine criteria across six priority categories that consider



project benefits such as land use, safety, equity, access to destinations, and network connectivity. The evaluation criteria informed the project prioritization.

The 2024 BTFP identified several maintenance-related action items. For example, as additional bikeways are built, maintenance funding should also increase depending on the type of bikeway implemented. The 2024 BTFP also calls for additional funding to support hiring maintenance staff. Since bikeways are an essential part of the transportation system, maintaining them will be essential.

***Policy 6.1.1 Matching Land Use: “When designing and improving streets, prioritize transportation-related accommodations and amenities to match the desired development context (e.g. urban, suburban, or rural) and/or the intended intensity of land uses.”***

The 2024 BTFP is consistent with and furthers the Policy of when designing and improving streets, prioritize transportation-related accommodations and amenities to match the desired development context (e.g. urban, suburban, or rural) and/or the intended intensity of land uses because the plan recommends and prioritizes bikeway projects based on lane use. In addition to land use, the 2024 BTFP considered development and roadway context when identifying and prioritizing proposed bikeway facility types. Since the plan is meant to create an all ages, abilities, and background bike network, bikeways in urban, suburban, or rural areas are each different. For example, in more suburban or rural contexts with low density, a paved multi-use trail or sidepath may be a more appropriate facility type versus a more urban context in which a separated bike lane or bike boulevard may be more appropriate. As the City designs or improves streets, staff will reference this plan and implement the recommended bikeway type. As private development occurs, they will also reference this plan and implement the recommended bikeway.

Bicycle parking is considered a bicycle-related accommodation and amenity. The 2024 BTFP refers to the DPM, which has requirements for bicycle parking requirements as private development occurs. The 2024 BTFP has an action item to create, fund, and staff a public bike rack program to add more bike parking on public property. Land use and the development context will inform the types of bike parking to be implemented. For example, an urban center location may need more bike parking not only to support people bicycling on their private bikes but also to support shared devices such as bikes and scooters. There may be opportunities to implement bike parking or designated shared bike and scooter drop zones on-street within daylight areas at an intersection. Daylighting references a safety strategy to remove automobile parking right at crosswalks to enable all roadway users to see each other better. For example, if a large automobile is parked right at the crosswalk, a younger or shorter person may not be blocked by the large vehicle when crossing the street. The 2024 BTFP also recommends adding daylighting to the DPM.

***Goal 6.2 Multi-Modal System: Encourage walking, biking, and transit, especially at peak-hour commuting times, to enhance access and mobility for people of all ages and abilities.***

The 2024 BTFP supports and will help to further the Goal to encourage walking, biking, and transit, especially at peak-hour commuting times, to enhance access and mobility for people of all ages and abilities because the plan identifies bikeway projects that contribute to a multi-modal system and support mode share shifts for people commuting at peak hours. Implementing all ages, abilities, and backgrounds bikeway projects identified in the 2024 BTFP is a strategy to encourage more people to walk, bike, and take transit, especially at peak-hour commuting times, and enhances access and mobility for people of all ages, and abilities. Proposed projects in the 2024 BTFP are designed to be all ages, abilities, and backgrounds and bikeway projects will also benefit people walking and taking transit because on-street bikeways provide a

buffer between fast-moving automobile traffic and where people are walking, which can make it more comfortable to walk. Off-street projects such as multi-use trails also serve people walking. Implementing low-stress bikeway projects also helps people riding transit because most transit trips begin or end with a walk or bike ride so by implementing bikeway projects, people will have better access and mobility.

The 2024 BTFP also identifies crossing improvements on major streets, which will enhance access and mobility for people walking, biking, and riding transit by helping people to easily and safely cross the street. If walking, biking, and reaching transit are more accessible and safer, more people may choose to commute by one or more of these modes at peak-hour commuting times.

The 2024 BTFP also proposes different plans, policies, and programs to enhance access and mobility and to encourage more people to walk, bike, or take transit, particularly at peak-hour commuting times. For example, the 2024 BTFP has an action item supporting the creation of a Regional Transportation Demand Management Program (TDM). TDM refers to a set of strategies and policies that seek to reduce single-occupancy vehicle demand, congestion, and carbon emissions, and increase rates of walking, riding transit, carpooling, and ridesharing as alternatives to driving alone. The City of Albuquerque currently operates various bicycle-focused programs that fall under the umbrella of TDM, including the installation of bike parking and encouragement programs such as Bike to Wherever Day and Bike Thru Burque. These programs could be expanded at a regional level to incorporate other initiatives aimed at reducing vehicle miles traveled, enhancing access and mobility for people walking, biking, and riding transit, create mode share shifts at peak-hour commuting, and complement the types of infrastructure improvements identified in the 2024 Plan.

***Policy 6.2.1 Complete Networks: “Design and build a complete, well-connected network of streets and trails that offer multiple efficient and safe transportation choices for commuting and daily needs. ”***

The 2024 BTFP supports designing and building a complete, well-connected network of streets and trails that offer multiple efficient and safe transportation choices for commuting and daily needs by identifying and prioritizing a citywide network of low-stress on and off-street bike projects that are of all ages, abilities, and backgrounds. National research and 2024 BTFP surveys indicated that more people would be willing to bicycle for transportation if the bike network felt safer, more comfortable, and better connected, with no or minimal bikeway gaps. Based on the research and survey results, the project team identified proposed bikeway networks that would be complete (no gaps) and well-connected meaning bikeway network spines or routes that can enable a person to bicycle short or long distances to easily reach key destinations for commuting to work or school or meet daily needs such as going to Centers, retail or grocery shopping, parks, or libraries among other daily destinations. The 2024 BTFP proposes 96.3 miles of bike boulevards, 33.7 miles of bike lanes, 56.6 miles of buffered bike lanes, 24.5 miles of enhanced bike routes, 21.4 miles of paved multi-use trails, 52.3 miles of separated bike lanes, and 74.6 miles of sidepaths.

***Policy 6.2.2 “Incorporate Complete Streets concepts and policies into the development, retrofit, and rehabilitation of all transportation infrastructure at all phases, including planning, scoping, design, implementation, and performance monitoring.”***

The 2024 BTFP incorporates Complete Streets concepts and policies into the development, retrofit, and rehabilitation of all transportation infrastructure at all phases, including planning, scoping, design, implementation, and performance monitoring. Having an adopted 2024 BTFP provides a framework for the City to make Albuquerque’s streets more complete because enhancing bicycling networks benefits people



that bicycle but they also benefit people that walk and take transit by improving the first and last mile of connectivity. When the City or developers develop, retrofit, or rehabilitate a roadway, they will reference the 2024 BTFP and so the 2024 BTFP will also inform the planning, scoping, design, implementation, and performance monitoring for transportation infrastructure projects and the incorporation of 2024 BTFP proposed bikeway projects. The City's Complete Streets policy played a key role in determining strategies to implement bikeway projects. The 2024 BTFP capitalized on the City's existing Annual Complete Streets Maintenance program in which 15-25 roadways are repaved and restriped every year. Staff will reference the proposed bikeway projects in the 2024 BTFP when developing striping plans through the Annual Complete Streets Maintenance program. This program serves as an opportunity to quickly build on-street bikeways such as bike routes, bike lanes, and buffered bike lanes, or improve existing substandard bike lanes. For example, from 2021-2023, this program implemented over 35 miles of new or improved on-street bikeways. The 2024 BTFP also includes related performance monitoring action items such as tracking and sharing newly constructed miles of on and off-street bikeways annually and creating a publicly available online data dashboard for the community. The 2024 BTFP also has an action item to track before and after crash data for before/after bikeways are implemented and to coordinate with the Mid-Region Council of Government on their Active Transportation Count Program, which can inform before/after use of bikeways.

***Policy 6.2.3 Pedestrian & Bicycle Connectivity:*** *"Provide direct pedestrian and bicycle access to and circulation within Centers, commercial properties, community facilities, and residential neighborhoods."*

The 2024 BTFP supports and furthers the Policy to provide direct pedestrian and bicycle access to and circulation within Centers, commercial properties, community facilities, and residential neighborhoods because the plan recommends related bicycle projects that align with this Policy. The 2024 Plan identified useful as a goal: create useful networks of on-street bikeways and multi-use trails that can be used for both recreational and everyday transportation purposes. The associated network design principle to inform proposed bikeways for the useful goal is to provide access to a range of everyday locations, including activity centers (including designated *Comp Plan* Centers), transit stops and station areas, recreational sites, and other significant community destinations. Another plan goal included connected: improve and expand the on-street bikeway and multi-use trail networks so they are intuitive, convenient, and well-connected. When the project team designed the proposed bikeways, the team considered opportunities to provide direct bicycle access to and circulation within Centers, commercial properties, and community facilities such as parks, schools, libraries, and residential neighborhoods. The 2024 BTFP also considered destinations and Centers in developing the bikeway prioritization criteria. For example, one evaluation category is Access, with the criteria being destinations and *Comp Plan* Centers. A proposed bikeway project received more points if it provided bicycle access to destinations: based on access provided to key destinations, such as schools, parks, transit stations, and community centers. It also received more points if a bicycle project provided bicycle access to *Comp Plan* Centers. The 2024 BTFP proposes over 300 miles of bikeways to complement the existing bikeway network with over 400 miles.

Facility	Proposed Miles	Existing Miles
Bike Boulevard	96.3	8.9
Bike Lane	33.7	194.8
Buffered Bike Lane	56.6	35.6
Paved Multi-Use Trail	21.4	91.8

Separated Bike Lane	52.3	0.1
Sidepath	74.6	92.0
Total	335.0	423.2

While the goal and the associated network design principle do not mention circulation within Centers, the 2024 BTFP did consider this and make recommendations to create a low-stress bikeway network for people to get around within a Center.

Lastly, while the 2024 BTFP is more focused on bicycle connectivity, creating a low-stress bike network also serves people walking because people could also choose to walk these routes or bikeways provide buffer space between where people are driving and where people are walking. Importantly, the 2024 BTFP makes recommendations for crossing improvements where bike boulevards or multi-use trails cross at midblock, and unsignalized locations, which also benefits pedestrians and makes it easier to cross the street.

***Policy 6.2.5 Bicycle Network:*** “Promote an areawide bicycle and trail network for transportation and recreation that emphasizes connections among Centers and safe crossings at intersections.”

The 2024 BTFP supports the Policy to support an areawide bicycle and trail network for transportation and recreation that emphasizes connections among Centers and safe crossings at intersections because the plan identifies and prioritizes bicycle and trail projects. Proposed bicycle and trail projects in the plan were designed to create a safe, comfortable network for transportation and recreation and enable connections to Centers. Access to *Comp Plan* Centers was one of the project prioritization metrics. For example, if a proposed project improved a connection to a Center, then it received additional points. The 2024 BTFP also identifies and prioritizes improved crossing treatments at uncontrolled intersections where existing and proposed bike boulevards and paved multi-use trails cross a major roadway and makes recommendations to improve crossings at signalized intersections. The 2024 BTFP proposes 96.3 miles of bike boulevards, 33.7 miles of bike lanes, 56.6 miles of buffered bike lanes, 24.5 miles of enhanced bike routes, 21.4 miles of paved multi-use trails, 52.3 miles of separated bike lanes, and 74.6 miles of sidepaths.

***Goal 6.3 Safety: Plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users.***

The 2024 BTFP furthers the Goal to plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users through a variety of ways. The 2024 BTFP furthers this Goal by creating a plan for the bicycling network, which is a key part of the overall transportation system. The 2024 Plan strives to consider the needs of different user types and to make each trip as safe, comfortable, and efficient as possible by providing a connected network of safe, low-stress, high-comfort on- and off-street options for people of all ages, abilities, and backgrounds. These principles were incorporated when developing the bicycling network and support the development of the bicycling transportation system.

The 2024 BTFP supports the operation of the bicycling transportation system by designing bikeways that communicate to all roadway users in the transportation system. Adding an on-street bikeway communicate to people bicycling about where to bike and to drivers to not drive in the bike lane, and to people walking to not walk in the bike lane. The 2024 BTFP also supports operation through educational and encouragement programs such as Bike to Wherever Day and Bike thru Burque, which provides education not only to people who bike but also to people walking and driving.

The 2024 BTFP supports the maintenance of the bicycling transportation system by identifying opportunities to maintain or add new bikeways through the Annual Complete Streets Maintenance program in which roadways are repaved and restriped. It also identifies several action items related to maintenance for PRD and DMD such as identifying additional funding for staff and maintenance as more bikeways are implemented, to considering maintenance needs when planning and developing bikeways, and creating updated maintenance plans to address new facility types such as separated bikeways.

While the 2024 BTFP focuses on bicycling for transportation and recreation, bikeway projects and crossing improvements identified in the plan will also benefit people walking and accessing transit, which expands mobility and safety for all roadway users. The plan proposes implementing features such as bike lanes, median refuge islands, pedestrian hybrid beacons, and rectangular rapid flashing beacons, which are all identified by the Federal Highway Administration (FHWA) as measures proven to improve safety for all roadway users. The 2024 BTFP also aligns with and serves as a tool to implement the City's Vision Zero action items to improve safety for all roadway users, especially people walking and biking.

***Policy 6.3.1 All Users: "Use engineering, education, encouragement, enforcement, and evaluation to improve safety for pedestrians, cyclists, transit users, and motorists."***

The 2024 BTFP is consistent with the Policy to use engineering, education, encouragement, enforcement, and evaluation to improve safety for people walking and biking. While the 2024 BTFP is focused on people bicycling, any improvements made to the built environment for bicyclists also benefit people walking, taking transit, and people driving automobiles. The 2024 BTFP identifies and prioritizes midblock crossing locations where bike boulevards and paved multi-use trails cross major streets. It also identifies the appropriate countermeasure to accompany the crossing such as a pedestrian hybrid beacon or a rectangular rapid flashing beacon. It also recommends continuing or expanding existing education, encouragement, and evaluation programs hosted by the City such as Bike to Wherever Day and Bike Thru Burque, and key programs through the Esperanza Bicycle Safety Education Center. The 2024 BTFP has recommendations to enforce drivers that parking in bike lanes and to revisit existing transportation-related laws that may disproportionately impact Black, Indigenous, and People of Color (BIPOC). The 2024 BTFP identifies other engineering, education, encouragement, enforcement, and evaluation programs to pursue pending available funding and staff resources.

***Policy 6.3.3 Cyclists: "Improve safety for cyclists through street design."***

The 2024 BTFP will improve safety for cyclists through street design. Research has shown that a high proportion of the population is interested in cycling, however, they choose not to because of safety concerns. Since one of the overarching themes of the 2024 BTFP is creating a cycling network to serve people of all ages, abilities, and backgrounds, the plan proposes bikeways that follow national best practices and are proven to improve safety. For example, the 2024 BTFP recommends separated/protected bike lanes, which have been shown to decrease vehicle-cyclist crashes by up to 50%. Implementing 2024 BTFP recommended bikeway designs can encourage and influence better driver behavior, which makes it safer for cyclists, pedestrians, and drivers.

***Goal 6.4 Public Health: Promote individual and community health through active transportation, noise mitigation, and air quality protections.***

The 2024 BTFP is consistent with and furthers the Goal to promote individual and community health through active transportation, noise mitigation, and air quality protections. The 2024 BTFP furthers individual and community health through active transportation because bicycling is a form of active transportation. The 2024 BTFP recommends over 300 bikeway projects throughout the City of Albuquerque that will increase opportunities for people to choose to bicycle for transportation or recreation and experience the associated health benefits. The Centers for Disease Control and Prevention (CDC) recommends that adults get at least 150 minutes of moderate-intensity physical activity each week. According to the National Household Travel Survey, 45.6% of vehicle trips are three miles or less, which is a distance that could be taken by bicycle. The 2024 BTFP promotes public health by creating a network in which individuals and communities can choose active transportation options while also contributing to the recommended 150 minutes of physical activity. By increasing the mode share of people bicycling for transportation instead of driving, there will be less noise and improved air quality due to fewer people driving. This result also benefits people walking or taking transit.

The 2024 BTFP also supports continuing and expanding the Esperanza Bicycle Safety Education Center, which plays an important role in educating individuals and communities about the associated health benefits with active transportation, especially bicycling, and how to safely and responsibly bike in Albuquerque.

***Policy 6.4.1 Active Transportation:*** “Promote options and mobility for walking, biking, and other non-motorized travel. “

The 2024 BTFP supports and furthers the Active Transportation Policy to promote options and mobility for walking, biking, and other non-motorized travel because the plan identifies and recommends bikeway projects and related planning opportunities, policies, and programs. While the 2024 BTFP is focused on bicycling, bicycling improvements can improve conditions for people walking, rolling, scooting, or other non-motorized travel. Adding on-street bikeways provides a buffer between where people are driving and where people are walking, which can make it more comfortable. Providing on-street bikeways also benefits people who ride electric scooters and provides a safe, comfortable space to scoot rather than riding on the sidewalk, which can make it uncomfortable for people walking. The 2024 BTFP also prioritizes locations where bike boulevards and paved multi-use trails cross major roadways and identifies the appropriate safety measures such as refuge island or pedestrian hybrid beacons, and rectangular rapid flashing beacons, which will make it easier for people walking and biking to cross the street. The 2024 BTFP plan also recommends continuing existing programs such as those through Esperanza Bicycle Safety Education Center and events like Bike to Wherever Day. National research and 2024 BTFP survey respondents indicated that if there are safe, comfortable, and connected bikeways for people to reach recreation or daily needs, they would be more likely to bike. The 2024 BTFP is a roadmap to encouraging and enabling more people to bicycle and promote other active transportation and mobility options.

***Goal 6.5 Equity: Expand mobility by providing safe and connected networks for non-auto travel and public transit for low-income and vulnerable populations.***

The 2024 BTFP furthers and supports the Equity Goal to expand mobility by providing safe and connected networks for non-auto travel and public transit for low-income and vulnerable populations because one of the overarching plan goals is to increase equitable access and embed equity throughout the plan.

While the project team systematically looked at bicycling citywide and proposed safe, connected bikeway

projects, there are low-income and vulnerable population areas of Albuquerque that do not have many if any low-stress bikeways. For example, the International District has no meaningful low-stress bikeways, despite being home to a high number of lower-income individuals and families who either cannot afford or must make large financial sacrifices to own and drive a car. In turn, the plan resulted in recommending a large proportion of low-stress bikeway projects within disadvantaged communities. Since these areas tend to have fewer low-stress bike facilities, experience more traffic violence, and have less access to private automobiles, equity was identified as an evaluation criterion and weighted heavier to prioritize proposed bikeway projects in these areas. The 2024 BTFP used the Vulnerability Index to evaluate the equity criterion. The Vulnerability Index comes from the CDC's Social Vulnerability Index and identifies indicators likely to impact a person's transportation vulnerability, including unemployment, poverty, gender, seniors, youth, disability, race (persons of color), ethnicity (Hispanic/Latino), English proficiency, foreign-born, educational attainment, single-parent households, multifamily, mobile homes, crowding, group quarters, and vehicles available.

When prioritizing all the proposed bikeway projects, points were awarded based on a weighted average vulnerability score among the portions of census tracts that intersect with a 0.25-mile buffer around the project area. If a proposed project was within a highly vulnerable area, it would receive the most points. Equity is worth 20% of total points. Other project prioritization criteria include safety (15% of points), access (15% of points), network improvements (30% of points), level of use (10% of points), and community input (10% of points). These criteria also played a part in centering and elevating the implementation of bikeways in low-income and vulnerable areas because these areas also experience traffic safety challenges, have *Comp Plan Centers* and key community destinations, facility needs for improvements, opportunity for more use, and the community also greatly supported prioritizing investment in low income and vulnerable population areas.

Additionally, bicycling is an affordable mode of transportation. Many individuals and families struggle to afford the full costs of driving, which includes purchasing, maintaining, insuring, and fueling a car. A network of high-comfort bikeways and trails provides a less expensive transportation option that can connect people to transit, jobs, and daily needs, and serve individuals who either cannot or choose not to drive. The 2024 BTFP will expand mobility by providing safe and connected networks for non-auto travel and public transit for low-income and vulnerable populations.

***Policy 6.5.1 Equitable Transportation Systems:*** “Consider the needs of people of all ages and abilities in the design, construction, and operation of transportation systems.”

The 2024 BTFP supports and furthers the Equitable Transportation Systems Policy to consider the needs of people of all ages and abilities in the design, construction, and operation of transportation systems, specifically bikeways. One of the overarching goals and approaches to identifying and recommending proposed on and off-street bikeway projects in the 2024 BTFP was to create a network that serves people of all ages, abilities, and backgrounds. The project team followed national best practices and also considered community input when recommending bikeway projects. When the City works toward implementing proposed projects, community outreach and engagement will continue as the City designs the proposed bikeways and further tailor projects to consider the needs of each community where a proposed bikeway project is being implemented. This consideration should also continue with the construction, with the 2024 BTFP identifying project development actions including formalizing bike detours when creating traffic control plans.

***Goal 6.6 Economy: Invest in a transportation system that stimulates and supports job creation and business development and improves the movement of people, goods, and services.***

The 2024 BTFP furthers the Goal to invest in a transportation system that stimulates and supports job creation and business development and improves the movement of people, goods, and services. The 2024 BTFP furthers this Goal because the plan identifies investments in biking and walking, which are part of the transportation system and in turn investments in these modes can result in more people choosing to walk, bike, or take transit. A multi-modal transportation system will improve the movement of people. If more people choose to walk, bike, or take transit, roadway congestion from private automobiles can decrease and improve the movement of goods and services.

Investment in on and off-street bikeway projects identified in the plan can also stimulate and support job creation and business development because national research shows that people want to live in walkable, bikeable, and livable communities. Albuquerque becoming more walkable and bikeable could lead to more businesses relocating here since potential employees want to live in a place with active transportation options. Better walkability and bikeability also benefit existing residents and they can experience the associated health benefits, which in turn can decrease healthcare costs. If employers have savings on healthcare costs, these funds can be used for creating new jobs or business development. According to a 2005 study from the American Journal of Health Promotion, the annual cost of obesity to employers ranges from \$175 for every overweight male employee to \$2,485 for every grade-II (BMI 30-40) obese female.

Cities like San Francisco or New York City that are bikeable with access to safe, comfortable, low-stress bikeways see goods moved by bike cargo bikes, which also improves the movement of people and goods. The 2024 BTFP recommends bike projects that will lead to a low-stress bike network, which could encourage cargo bike goods movement.

***Policy 6.6.2 Transportation Options: “Provide a balanced transportation system with effective transportation options to help retain and attract the workforce.”***

The 2024 BTFP furthers the Transportation Options Policy to provide a balanced transportation system with effective transportation options to help retain and attract the workforce. Albuquerque has an existing transportation system that supports effective transportation by automobile. The 2024 BTFP will help to create a more balanced transportation system by recommending bikeway projects that will make bicycling a safe, comfortable, and convenient transportation option, which can help to retain and attract the workforce to Albuquerque. 2024 BTFP survey respondents indicated that they are interested in bicycling more for transportation if there were more connected, low-stress bikeways to get people where they need or want to go. Research indicates that when cities invest in more low-stress bikeways, more people will bicycle. Research has also indicated that people want to live in walkable, bikeable, and transit-oriented places where they can meet daily needs without having to use an automobile for every trip. Investments in low-stress bikeways could attract a workforce. 2024 BTFP recommendations also include crossing improvements where a bike boulevard or multi-use trail crosses a major roadway, which will benefit people walking and accessing transit. The 2024 BTFP recommendations are a strategy for achieving a more balanced transportation system.

***Goal 6.7 System Effectiveness: Implement and maintain an effective and efficient transportation system in a coordinated and cost-effective manner.***



The 2024 BTFP supports the Goal to implement and maintain an effective and efficient transportation system in a coordinated and cost-effective manner because all proposed projects from the plan include the recommended facility type (buffer bike lane, sidepath, etc.), implementation strategy (road diet, lane narrowing, crossing, etc.), priority level (low, medium, high), timeframe (near or long term), and means of implementation (resurfacing, standalone project, part of a larger transportation project). Identifying these key items for each proposed facility upfront creates an opportunity to better coordinate and more cost-effectively implement these projects. Staff will know whether a project can be implemented through routine maintenance as part of the Annual Complete Streets Maintenance Program, if it is a standalone project, or if it should be included as part of the scoping for a larger transportation project.

The 2024 BTFP also identifies several action items associated with improving the effectiveness and efficiency related to on and off-street bikeway maintenance. One action item tasks DMD and PRD to coordinate and create a maintenance plan to support all the new bikeways. Another action item calls for continuing coordination among the City and other agencies where bikeways are located such as along the New Mexico Department of Transportation (NMDOT) or the Albuquerque Metropolitan Flood Control Authority (AMAFCA). This coordination will help to further the implementation and maintenance effectively and efficiently since some facilities are proposed within these organization's rights of way. Bikeway recommendations are also important for when other organizations such as NMDOT develop projects that will impact the City. For example, City staff and NMDOT staff are coordinating on NMDOT's S-Curve Study and sharing bikeway recommendations that are within their study area and will be included in their plans.

***Policy 6.7.2 Regional Systems: "Coordinate across transportation agencies to plan a transportation system for the region."***

The 2024 BTFP coordinated across transportation agencies to plan a transportation system for the region. While the DMD led the development of the 2024 BTFP, DMD coordinated with other DMD Divisions, City Departments, and stakeholders in the region. The 2024 BTFP included a Technical Working Group (TWG) that helped to steer and coordinate updates to the plan. The Mid-Region Council of Governments (MRCOG) and Bernalillo County staff served on the TWG. City staff also presented numerous times to MRCOG's Active Transportation Committee to collaborate and coordinate on bicycling for transportation regionally. City staff also served on Bernalillo County's Pedestrian Bicycle Planning Committee to coordinate the plans.

***Policy 6.7.3 Schools: "Collaborate with Albuquerque Public Schools and State-chartered schools to provide safe access to school sites for all transportation modes."***

The 2024 BTFP supports the collaboration with Albuquerque Public Schools and State-chartered schools to provide safe access to school sites for all transportation modes. The 2024 BTFP collaborated with Albuquerque Public Schools to provide safe access to school sites for bicycling transportation modes. The 2024 BTFP included representatives from Albuquerque Public Schools (APS) on the Stakeholder Advisory Committee (SAC), which helped to steer the project team throughout the planning process. Additionally, all schools, including State-chartered, were included as desirable destinations to be able to bike safely and efficiently to/from and this informed the analyses to identify and prioritize proposed bikeways.

***Goal 6.8 Context: Provide transportation investments that are responsive to context and natural setting.***

The 2024 BTFP furthers the Goal to provide transportation investments that are responsive to context and natural setting because the plan considered both context and natural setting when proposing on and off-street bikeway projects. For example, based on the Federal Highway Administration's Bikeway Selection Guide and the National Association of City Transportation Officials (NACTO) Designing Bikeways for All Ages and Abilities, as automobile traffic volumes and speeds increase, more separation and/or vertical delineation between where people are driving and where people are biking is needed. The project team used these guides to analyze and then recommend the appropriate facility type depending on the roadway context, land use, existing right-of-way, and natural setting. In addition to context, natural setting was considered when making recommendations for paved multi-use trails along arroyos or through other rights of way that could support this facility type.

***Policy 7.6.2 Transportation Infrastructure: "Match infrastructure capacity, design, and maintenance to the development context, expected land use intensities of abutting development, and all travel modes."***

The 2024 BTFP furthers the Policy to match infrastructure capacity, design, and maintenance to the development context, expected land use intensities of abutting development, and all travel modes. The 2024 BTFP furthers this Policy for bicycling-related travel mode. The project team considered roadway capacity, design, maintenance, and land use when identifying the appropriate bikeway facility type for a roadway. The project team also analyzed existing right-of-way, roadway width, traffic volumes and speeds, and existing or expected land uses to identify a proposed bikeway. The 2024 BTFP also developed traffic volume thresholds to support when a road diet would be appropriate to implement a bikeway. For example, in denser and urban areas near UNM and CNM, there is a grid network and roadway redundancies that could support a road diet on one of the roadways to accommodate a separated bike lane. In addition to the schools, these areas have many restaurants, businesses, and housing where people may want access to different transportation options outside of driving an automobile for each trip.

The 2024 BTFP also identifies the importance of maintaining existing multi-use trails and includes an action item to update Parks and Recreation's maintenance plan, identify additional maintenance staff, and importantly additional maintenance funding. The 2024 BTFP also calls out the importance of considering maintenance needs and costs upfront when scoping to design and build multi-use trails. Based on public feedback, new national guidance, and PRD's experience in creating and maintaining trails, the plan also recommends updating the *Development Process Manual* to require designing wider trails to better accommodate trail users.

For unbuilt roadways, the 2024 BTFP recommends following the Mid-Region Council of Government's (MRCOG) Long Range Bikeway System (LRBS). The City of Albuquerque along with other MRCOG member agencies such as Bernalillo County participate in MRCOG's process to update the LRBS every four years. When updating the LRBS, staff will consider the development context and expected land use intensities when identifying the appropriate proposed bikeway type.

***Goal 7.1 Streetscapes & Development Form: Design streetscapes and development form to create a range of environments and experiences for residents and visitors.***

The 2024 BTFP supports the Goal to design streetscapes and development form to create a range of environments and experiences for residents and visitors by diversifying the transportation system to be more multi-modal and bicycle-friendly. Proposed projects in the 2024 BTFP include on-street bike routes, bike lanes, buffered bike lanes, separated bike lanes, and sidepaths. Each facility type creates a range of



environments and experiences for residents and visitors whether they're walking, biking, driving, or taking transit. When implementing bikeway projects, complementary streetscapes can be incorporated as well such as street trees or plants, street and pedestrian-oriented lighting, wayfinding signage, and/or neighborhood-specific signage. These improvements help to create more people-oriented streets where people will be comfortable traveling to, through, or along, depending on the street context.

**Policy 7.1.3 Priority Street Elements:** *“Design cross sections according to priorities for street elements within each Corridor, including where the Corridor passes through Centers, especially where right-of-way or budgets may be constrained.”*

*Sub-policy a): Follow the priority elements for the Travel Way in Table 7-5 based on the Corridor type and location.*

The 2024 BTFP supports the Policy to design cross sections according to priorities for street elements within each Corridor, including where the Corridor passes through Centers, especially where right-of-way or budgets may be constrained. The 2024 BTFP is also consistent with the Sub-policy to follow the priority elements for the Travel Way in Table 7-5 based on the Corridor type and location because the project team used this table following “bicycle facilities” under the travel way realm in identifying bikeway recommendations in the plan. Table 7-5, the Priority Street Elements Matrix table identifies bicycle facilities as high, medium, or low priority depending on the Corridor and Center Type. The project team also utilized the *Development Process Manual's* Table 7.2.29 Street Element Dimensions to inform recommending bikeways and whether there was enough existing right-of-way to support the proposed bikeway facility type. As per the *Comp Plan's* Table 7-5 footnote, where bicycle facilities were high priority, but there was not adequate right-of-way, the project team proposed a bikeway facility on a parallel corridor within close proximity to the corridor. To address right-of-way and budget constraints, the 2024 BTFP has a focus on identifying projects that can be implemented quickly within the existing right-of-way through the Annual Complete Streets Maintenance Program or a standalone restriping project, which are lower cost than a major roadway reconstruction project that will likely require acquiring right-of-way.

**Goal 10.2 Parks:** *Provide opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents.*

The 2024 BTFP furthers the Goal to provide opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents by proposing low-stress bikeway projects for transportation and recreation. Low-stress bikeways enable people another transportation option to access outdoor education, recreation, and cultural activities. Bicycling in itself is also an opportunity for recreation. Bicycling for transportation or recreation is fun and can enhance the quality of life and promote community involvement for all residents. The 2024 BTFP also furthers this goal because it identifies the importance of continuing to fund existing programs that provide opportunities for outdoor education, recreation, and cultural activities such as various Open Space Division Programs and the Prescription Trails Program.

**Policy 10.2.3 Multi-use Trails:** *“Connect parks by designing, building, and maintaining trails to accepted standards.”*

The 2024 BTFP furthers the Policy to connect parks by designing, building, and maintaining trails to accepted standards by identifying new proposed multi-use trails that can be used for transportation and recreation to

connect people to parks and other everyday destinations. The 2024 BTFP also identifies the importance of maintaining existing multi-use trails and includes an action item to update Parks and Recreation’s maintenance plan, identify additional maintenance staff, and importantly additional maintenance funding. The 2024 BTFP also calls out the importance of considering maintenance needs and costs upfront when scoping to design and build multi-use trails. Based on public feedback, new national guidance, and PRD’s experience in creating and maintaining trails, the plan also recommends updating the *Development Process Manual* to require designing wider trails to better accommodate trail users.

***Goal 13.5 Community Health: Protect and maintain safe and healthy environments where people can thrive.***

The 2024 BTFP furthers the Goal to protect and maintain safe and healthy environments where people can thrive by emphasizing a prioritized and implementable bikeway network that leverages right-of-way within existing facilities rather than new facilities and, therefore, is more resource-efficient. Creating a low-stress on and off-street bikeway network also creates an opportunity for people to travel by bicycle for transportation or recreation and improves access to transit. Research and surveys associated with the 2024 BTFP indicate that if low-stress bikeways exist more people would be willing to use them. Bicycling is a form of active transportation and can help people meet the CDC’s recommended 150 minutes of activity each week. If more people are bicycling for transportation, this could mean fewer automobile drivers on the road, which can improve air quality, and decrease noise pollution and automobile pollutants. It also means less wear and tear on roadways. Additionally, bicycling for more transportation trips can save people money since the cost of automobile ownership and maintenance can be burdensome. In 2024, the average annual cost of owning a car is \$10,728. Research shows that less driving also means fewer fatal and serious injury traffic crashes. Proposed bikeway projects and plan action items are a strategy to protect and maintain safe and healthy environments where people can thrive.

***Policy 13.5.2 Healthful Development: “Encourage public investments and private development that enhance community health.”***

The 2024 BTFP furthers the Policy to encourage public investments and private development that enhance community health because it identifies both projects and programs for public investment and identifies proposed bikeway projects that can be implemented through private development. In addition to proposed bikeway projects, proposed program examples include the creation of e-bike rebate programs and a bike rack program. Bicycling may not appeal to everyone; however, e-bikes may appeal to more people. E-bikes make trips shorter and more convenient and expand the distance that one can easily reach by bike. E-bicycling can also help people meet the CDC’s recommended 150 minutes of weekly physical activity and enhance community health. However, e-bikes can be expensive, so e-bike rebate programs can improve access for the community to purchase e-bikes. Survey respondents in the 2024 BTWD surveys indicated they would be willing to bicycle if safe, easy, and accessible bike parking at both public destinations and private businesses existed. The DPM has bike parking requirements for private development. The creation of a public bike rack could encourage more people to bicycle, which can enhance community health.

***Sub-policy b) Ensure access to parks and open space for all residents by walking, biking, and driving to provide opportunities for passive and active recreation in the outdoors and encourage healthful connections to nature.***

The 2024 BTFP will further the sub-policy to ensure access to parks and open space for all residents by walking, biking, and driving to provide opportunities for passive and active recreation in the outdoors and encourage healthful connections to nature. The 2024 BTFP furthers this sub-policy by making it easier and safer for people to bike to parks and open spaces, which creates an opportunity to bicycle for transportation or recreation and experience the associated health benefits. The plan identified on and off-street bikeway projects that can better connect people to major destinations such as parks and open spaces. Also, one of the project prioritization metrics included access to parks and open space.

### **City Council adopted Plans or Policies**

#### ***Complete Streets Policy (2019)***

**Applicant response:** The 2024 BTFP aligns with the Complete Streets policy and approach. The 2024 BTFP identifies proposed bikeway facilities that can be implemented through repaving or restriping projects, which aligns with the City's existing Annual Complete Streets Maintenance Program. The plan also identifies other larger and longer-term projects to make our streets more complete.

#### ***Vision Zero Year-in-Review/Action Plan Update (2023)***

**Applicant response:** The 2024 BTFP is consistent with and will further the goals of the Vision Zero Year-In-Review/Action Plan Update. The BTFP recommends implementing low-stress, comfortable, and safe on and off-street bikeways, which is a strategy to address safety for vulnerable roadway users, which includes people bicycling. The BTFP also incorporated safety data, the High Fatal and Injury Network (HFIN), and the vulnerability index into the bikeway project prioritization. The BTFP will help the City reach its Vision Zero goals.

#### ***Climate Action Plan (2021)***

**Applicant response:** The 2024 BTFP is consistent with and will further the goals of the Climate Action Plan. The Climate Action Plan established the value of walking and bicycling as a mitigation and resilience strategy and documents community desires to increase pedestrian and bikeway facilities. It also established supports the prioritization of projects that are most likely to increase the share of trips taken by bicycle, producing a reduction in GHG emissions. The BTFP is the mechanism that identifies priority bikeway projects and supports their implementation.

### **6-7(B)(3)(b) The proposed plan or amendment promotes the efficient use or administration of public or quasi-public facilities.**

**Applicant response:** The amended 2024 BTFP promotes the efficient use or administration of public or quasi-public facilities. It also promotes the efficient use of staff time and taxpayer dollars in several ways. The first way is by identifying proposed low-stress on and off-street bikeway types to serve people bicycling for transportation and recreation. The project team investigated each proposed low-stress bikeway type to ensure its feasibility. If a low-stress facility was not feasible along a Comp Plan Corridor or other corridor, a low-stress parallel route to support multi-modal connectivity was identified.

The second way the 2024 BTFP promotes the efficient use or administration of public or quasi-public facilities is by creating a prioritized list of implementable on and off-street bikeway projects that serve people interested in bicycling for recreation and transportation. Identifying proposed facility types and

prioritizing proposed bikeway projects promotes more efficient use of staff time and taxpayer dollars since staff will not need to investigate these items when bikeway implementation funding is identified. Additionally, both the proposed bikeway projects and prioritization went through several rounds of public input, which also promotes more efficient use of public or quasi-public facilities.

Implementing recommendations from the amended 2024 BTFP will concurrently further *Comp Plan* Goals and Policies, the Complete Streets Ordinance, the Vision Zero Action Plan, and the Climate Action Plan, which are also examples of promoting the efficient use of public or quasi-public facilities.

Proposed projects can also be beneficial to people walking and accessing transit because recommended sidepaths, multi-use trails, and improved crossings at major streets benefit people walking too and improve first and last mile of connectivity to/from transit. The amended 2024 BTFP also formalizes evaluation and prioritization criteria to ensure consistency with BTFP goals and objectives. The BTFP leverages the Annual Complete Streets Maintenance program to implement on-street bikeways, utilizes General Obligation bonds and other City funding sources, and identifies opportunities for improvements through private development.

The 2024 BTFP identifies and emphasizes on-street bikeway projects that can be easily implemented through routine maintenance such as restriping or repaving projects or through the Annual Complete Streets Maintenance Program. If funding and staff capacity are available, these projects could be built more quickly (within a few years) and without significant capital costs. For example, between 2021 and 2023, through the Annual Complete Streets Maintenance Program, the City added over 35 miles of new or improved existing on-street bikeways. The 2024 BTFP also identifies longer-term reconstruction projects for both on and off-street bikeways that can be a standalone project or incorporated into larger transportation projects.

**6-7(B)(3)(c) The plan or amendment will promote public health, safety, and general welfare.**

**Applicant response:** The amended 2024 BTFP will promote public health, safety, and general welfare. The amended 2024 BTFP supports public health by supporting improvements to create an accessible all ages, abilities, and backgrounds active transportation network where people can safely walk, bike, and access transit. The Centers for Disease Control and Prevention (CDC) recommends that adults get at least 150 minutes of moderate-intensity physical activity each week. According to the National Household Travel Survey, 45.6% of vehicle trips are three miles or less, which is a distance that could be taken by bicycle. The 2024 BTFP promotes public health by creating a network in which the public can choose active transportation options while also contributing to the recommended 150 minutes of physical activity.

The 2024 BTFP also promotes safety by emphasizing safer conditions for people biking through infrastructure improvements that align with national best practices, and FHWA's proven safety countermeasures and Bikeway Selection Guide. Many local and national surveys indicate that people would be willing to bicycle more if safer bicycling infrastructure existed. The plan also identifies opportunities for public education for both people bicycling and people driving. The plan identifies strategies for improved data collection, analysis, and monitoring of the bikeway network and communication tools such as Story Maps to make this information more accessible to the public.

The 2024 BTFP promotes general welfare by creating a bikeway network that makes bicycling more accessible and safer to everyone, particularly our more vulnerable communities that rely on walking, biking,

and transit to get around to meet daily needs.

## **Public Outreach**

The 2024 BTFP project team used a variety of outreach strategies to raise awareness about the plan development process and gather input from community members on bicycling-related needs and priorities, including but not limited to stakeholder groups, in-person and virtual public meetings, social media, surveys, tabling at existing community events, and utilizing existing community newsletters.

Outreach highlights:

- 3 phases of outreach
- 12+ pop-up meetings at existing community events or locations where people go
- 5 community meetings
- 9 City and Regional committee presentations
- 2 stakeholder working groups had 8 total meetings
- 2 targeted surveys in English and Spanish that reached over 1,200 people
- Flyers in English and Spanish

The project team also assembled two key stakeholder groups that met throughout the plan development, helped steer the plan, helped us get the word out to our communities, and provided key feedback. The Technical Working Group (TWG) included different City Departments and Divisions such as the Department of Municipal Development, Parks and Recreation, Planning, Council Services, ABQ RIDE, Sustainability, and Senior Affairs, and the Mid-Region Council of Governments and Bernalillo County. The Stakeholder Advisory Committee (SAC) included representatives from the City's Greater Albuquerque Active Transportation Committee (GAATC), the Greater Albuquerque Recreational Trails Advisory Committee (GARTC), the Transit Advisory Committee (TAC), and key active transportation and equity groups such as Together 4 Brothers and ABQ CiQlovía, Bike ABQ, Duke City Wheelmen, Albuquerque Public Schools, the University of New Mexico, local businesses, and advocates.

The project team also created a dedicated website that included information about the plan, the planning process and schedule, why it's important, how to get involved, draft documents, and recordings of public meetings. It also included a dedicated email address that the public can email at any time to ask questions or share feedback.

The project team paired the first phase of outreach with National Bike Month in May and the City's Bike to Wherever Day event on May 19, 2023. Phase 1 of engagement focused on understanding bicyclist user needs challenges, opportunities, and general priorities. The project team shared existing conditions information and the level of traffic stress analysis with the public. The project team promoted the plan update and encouraged the public to fill out a survey (available in English and Spanish) and identify locations either on a paper map or an interactive online map for where they would like to see bikeway improvements and what types of facilities the public would like to see. The survey was open from May 1 – June 16, 2023. The project team also tabled at 15 pop-up stops throughout the city as part of Bike to Wherever Day and also tabled at four additional pop-up stops at existing community events or businesses. The project team also hosted an in-person and a Zoom public meeting. The public meeting was recorded and uploaded on the website where the public can view it at any time. The project team included feedback from this phase in the plan to identify solutions to challenges

identified, prioritization metrics, prioritizing preferred facility types, and specific locations for bikeway improvements. A phase 1 engagement summary is in Appendix B.

Outreach phase 2 aligned with the City's Bike Thru Burque Week from October 21-29, 2023. This phase shared the draft proposed bikeway and paved multi-use trail network, including facility types, implementation timelines (near term or long term), and magnitude of cost. The project team put together an interactive survey map that included an exercise in which participants were given a "budget" of virtual tokens and asked to select which potential bikeway projects to prioritize. Projects had a "cost" of one, three, or five tokens to represent the technical feasibility and complexity of a proposed improvement. For in-person tabling events, the project team had a paper version of this prioritization exercise. A total of 662 individuals participated in the project priorities survey map. The survey was open from October 21 – November 30, 2023, and available in English and Spanish. The project team incorporated results into project prioritization as a community input criterion in the bikeway evaluation process. In Phase 2, the project team hosted an in-person and a Zoom public meeting and the recording was posted on the project website. The project team also tabled at Bike in Coffee (twice), ABQ CiQlovía, Canteen Brewhouse, Sierra Club's E-Bike Event, and Day of the Tread. Phase 2 outreach also overlapped with several *Comp Plan* public meetings, so DMD staff provided information about the plan update, the survey, and the website. A phase 2 engagement summary is in Appendix C

Outreach phase 3 occurred from April 22 – May 31, 2024, and included sharing the full draft of the 2024 Bikeway and Trail Facilities Plan. This phase asked for general feedback on the draft plan and people could provide comments through email or take a short survey to provide feedback. On May 14, 2024, the project team hosted a public meeting on Zoom, and the recording was posted on the project website. Additionally, flyers about the draft plan public review period were included at pop-up stops as part of the 2024 Bike to Wherever Day event and in email communications, which includes a listserv of over 4,100 people.

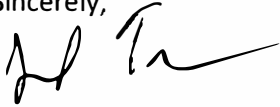
As a result of the comments received during the public meeting, through the survey, and emailed comments, the project team addressed a few gaps identified in the proposed bikeway network and included a new action item in the Implementation Chapter. Generally, public comments were supportive of the plan and aligned with strategies identified in the plan, with several comments supporting proposed projects identified in the plan. Specifically, public comments supported recommendations for separated (protected bike lanes) and bike boulevards, improved crossings for bike boulevards and multi-use trails, improved crossings at intersections, and increased funding to implement proposed bikeways and crossings. All these items are included and addressed in the plan.

## **Conclusion**

This request promotes public health, safety, and general welfare. It also promotes the efficient use or administration of public or quasi-public facilities. Lastly, this request is consistent with the spirit and intent of the *ABC Comp Plan*, as amended, and will further applicable Goals and Policies. The amended Bikeway and Trail Facilities Plan incorporates and is complementary to many other policies and plans adopted by the City Council. The Department of Municipal Development staff in coordination and collaboration with Parks and Recreation and many other City Departments and Divisions, and community stakeholders updated the Bikeway and Trail Facilities Plan to create an implementable plan and vision for bicycling in Albuquerque. Ultimately, the 2024 Plan seeks to better accommodate the needs of people who bike today and attract a new generation of residents and visitors of all ages, abilities, and backgrounds to a form of transportation and recreation that is healthy, economical, sustainable, and fun.

The City of Albuquerque is committed to improving both on and off-street bikeways for transportation and recreation and implementing complementary plans, policies, and programs to make bicycling safe, comfortable, and convenient for people of all ages, abilities, and backgrounds.

Sincerely,

A handwritten signature in black ink, appearing to read 'JL Turner', with a long horizontal flourish extending to the right.

Jennifer Turner, Director

Department of Municipal Development, City of Albuquerque

## C) STAFF INFORMATION



June 25, 2024

TO: Valerie Hermanson, Public Works Strategic Program Manager, DMD

FROM: Robert Messenger, Senior Planner  
Catherine Heyne, Planner  
City of Albuquerque Planning Department

TEL: (505) 924-3847, [rmessenger@cabq.gov](mailto:rmessenger@cabq.gov)  
(505) 924-3310, [cheyne@cabq.gov](mailto:cheyne@cabq.gov)

RE: Bikeway & Trails Facilities Plan (BTFP) 2024, Rank 2 Facility Plan - EPC (PR # PR-2024-010493  
Case # RZ-2024-00032)

---

We've completed a review of your request. We have a few questions and suggestions for the process. Following this review, we will be available to answer any questions. Please provide the following:

⇒ A revised application, justification letter and revisions discussed in the project memo (one electronic copy),

by **9a on Tuesday, July 2, 2024.**

Note: If you have difficulty with this deadline, please let us know.

## 1) Introduction

- A. Although we've done our best for this review, additional items may arise as the case progresses. If so, we will inform you immediately.
- B. Legal description: Not Applicable; this is a Facilities Plan that will be adopted Citywide (the "Plan") and subject to IDO §14-16-6-7(B).
- C. The outcome is a Policy Decision that will be reviewed by City Staff with a recommendation to EPC and heard by EPC during a Public Hearing. EPC will review and make a Recommendation to the City Council who will Review and Decide the case during a Public Hearing (see 6-1: Procedures Summary Table).

## 2) Process

- A. Information regarding the EPC process, including the calendar and current Staff reports, can be found at: <http://www.cabq.gov/planning/boards-commissions/environmental-planning-commission>
- B. Timelines and EPC calendar: the EPC public hearing for July is the 18th. Final staff reports will be available one week prior, on **Thursday, July 11** at: <https://www.cabq.gov/planning/boards-commissions/environmental-planning-commission/epc-agendas-reports-minutes>.

- C. Any materials that need to be reviewed by staff shall be submitted no later than 9 AM on July 8, 2024.
- D. You will be emailed a copy of all received Agency Comments once the deadline for submission closes (July 3) and any late ones will be forwarded to you. Comments from agencies requiring an action will be listed as a condition of approval.

### **3) Notification & Neighborhood Issues**

Notification requirements for the Adoption or Amendment of Facility Plan are explained in IDO §14-16-6-4(K) Public Notice (IDO, p. 409). For applications related to a citywide Policy Decision: all Neighborhood Associations are to be notified (6-4(K)(3)(b)(1)).

- A. All Neighborhood Associations (NAs) and representatives appear to have been notified.
- B. Have you received any outreach from the NAs since your notification went out?
- C. No sign posting is required (see Table 6-1-1).

### **4) Application**

- A. Thank you for the provided Development Review Application Form and Form Z, both appear complete.

### **5) Justification Letter**

The project letter is off to a good start, though we suggest some clarifications:

#### **A. Letter Introduction**

- Please provide a brief summary section that outlines more specifically the changes that have been made between 2015 and 2024 since a redlined plan will not be provided to the EPC. The Commission needs to understand what is changing with the amendment of the 2015 Plan.

#### **B. Review & Decision Criteria**

The Site Plan – EPC shall be approved if it meets all of the criteria presented in 6-7(B)(3)(a-c). Please amend responses in a revised Justification Letter based upon the points below.

##### **1. Responses to 6-7(B)(a):**

- a. The task in a justification is to choose applicable Goals and Policies from the Comprehensive Plan that directly relate to the circumstances of the subject site and demonstrate how the request is consistent with (makes a reality) each applicable Goal and policy.
  - Re-phrasing the requirement itself in the response by tailoring the response to match the wording of the Goal or Policy.

- Furthering is shown by providing explanations in the response by using “because” statements and tailoring the response to match the wording of the Goal or Policy.
  - It is also important not to simply restate the Goal, Policy, or Sub-policy, but make supporting statements as to how the requested amendment would be consistent with the presented Goals and Policies.
  - There is a hierarchy that should be followed. Goals hold more weight than Policies and Sub-policies, and therefore should be a stronger focus.
- b. Please read through your responses to the criteria and be confident that you have provided sound justification for the proposed amendment and tie it back to your request and reasoning. To strengthen all provided responses, it will help to include the language directly from the goals and/ or policies:
- As part of the initial reply to 6-7(B)(3)(a), there is a reference to “...other plans and policies adopted by the City Council, which are listed below.” The table or list was not found below. It would be appropriate to reference p. 12 of the submitted BTFP report, or just list the six+ plans.

#### GOALS

- For Goal 6.5 please explain what you mean by “equity...weighted at 20%”.
- Goal 6.6 indicates that “modes can stimulate and support job creation and business development”. Please elaborate.
- For Goal 7.1 please explain how streetscapes and development create a range of environments and experiences.
- For Goal 13.5, provide more explanation about how the BTFP can “protect and maintain safe and healthy environments”.

#### POLICIES

- Please reread the response to Policy 5.1.11. There seems to be text missing about half way through the reply, starting with “The project team...”
- For Policy 6.2.1, Please elaborate on the where? How many miles? and describe what “complete and well-connected” means. Please also review 6.2.3, 6.2.5, 7.1.3 with the same lens.
- Policy 6.7.2: Did DMD lead the 2024 BTFP coordination? Maybe indicate this in the response.
- For Policy 13.5.2, provide brief verbiage that shows how e-bike programs and bike rack programs “enhance community health”. This can be accomplished with “because” phrases.
- Also, please correct the typo: 13.5.2 sub-policy b) “...transportation or **recreation...**”

## **2. Response to 6-7(B)(3)(b)**

- This response is sufficient. Review for punctuation and grammar.

## **3. Response to 6-7(B)(3)(c)**

- a. This response needs to better address how it promotes public health but is otherwise sufficient.

## **4. Public Outreach**

- a. Adding the month of the National Bike Month and the day of the City's Bike to Wherever Day.
- b. On page 12 of the Justification Letter, there is a sentence that talks about "stops at **exiting** community events or businesses". Might this be a typo? Otherwise, could you elaborate as to what this is?

D) PUBLIC NOTICE

**From:** [webmaster@cabq.gov](mailto:webmaster@cabq.gov)  
**To:** [Hermanson, Valerie](#)  
**Cc:** [Office of Neighborhood Coordination](#)  
**Subject:** Public Notice Inquiry Sheet Submission  
**Date:** Friday, May 31, 2024 1:05:58 PM

---

**[EXTERNAL]** Forward to [phishing@cabq.gov](mailto:phishing@cabq.gov) and delete if an email causes any concern.

Public Notice Inquiry For:

Environmental Planning Commission

If you selected "Other" in the question above, please describe what you are seeking a Public Notice Inquiry for below:

Contact Name

Valerie Hermanson

Telephone Number

505-768-4946

Email Address

vhermanson@cabq.gov

Company Name

City of Albuquerque Department of Municipal Development

Company Address

400 Marquette NW Ste. 303

City

Albuquerque

State

NM

ZIP

87102

Legal description of the subject site for this project:

Amending the City of Albuquerque Bikeway and Trail Facilities Plan (rank II plan)

Physical address of subject site:

Citywide

Subject site cross streets:

Citywide

Other subject site identifiers:

This site is located on the following zone atlas page:

Citywide

Captcha

x

**OFFICIAL PUBLIC NOTIFICATION FORM  
FOR MAILED OR ELECTRONIC MAIL NOTICE  
CITY OF ALBUQUERQUE PLANNING DEPARTMENT**



**PART I - PROCESS**

Use [Table 6-1-1](#) in the Integrated Development Ordinance (IDO) to answer the following:

Application Type: Adoption or Amendment of Facility Plan [6-7(B)]

Decision-making Body: City Council

Pre-Application meeting required: ☐ Yes ☒ No

Neighborhood meeting required: ☐ Yes ☒ No

Mailed Notice required: ☒ Yes ☐ No

Electronic Mail required: ☒ Yes ☐ No

Is this a Site Plan Application: ☐ Yes ☒ No **Note: if yes, see second page**

**PART II – DETAILS OF REQUEST**

Address of property listed in application: N/A

Name of property owner: City of Albuquerque

Name of applicant: City of Albuquerque

Date, time, and place of public meeting or hearing, if applicable: EPC Hearing July 18th, 2024, 8:40 am

<https://cabq.zoom.us/j/2269592859>

Address, phone number, or website for additional information:

<https://www.cabq.gov/planning/boards-commissions/environmental-planning-commission/epc-agendas-reports-minutes>

**PART III - ATTACHMENTS REQUIRED WITH THIS NOTICE**

☐ Zone Atlas page indicating subject property.

☐ Drawings, elevations, or other illustrations of this request.

☐ Summary of pre-submittal neighborhood meeting, if applicable.

☒ Summary of request, including explanations of deviations, variances, or waivers.

**IMPORTANT: PUBLIC NOTICE MUST BE MADE IN A TIMELY MANNER PURSUANT TO [SUBSECTION 14-16-6-4\(K\)](#) OF THE INTEGRATED DEVELOPMENT ORDINANCE (IDO). PROOF OF NOTICE WITH ALL REQUIRED ATTACHMENTS MUST BE PRESENTED UPON APPLICATION.**

I certify that the information I have included here and sent in the required notice was complete, true, and accurate to the extent of my knowledge.

Valerie Hermanson (Applicant signature) June 4, 2024 (Date)

**Note:** Providing incomplete information may require re-sending public notice. Providing false or misleading information is a violation of the IDO pursuant to IDO Subsection 14-16-6-9(B)(3) and may lead to a denial of your application.

**OFFICIAL PUBLIC NOTIFICATION FORM  
FOR MAILED OR ELECTRONIC MAIL NOTICE  
CITY OF ALBUQUERQUE PLANNING DEPARTMENT**



**PART IV – ATTACHMENTS REQUIRED FOR SITE PLAN APPLICATIONS ONLY**

Provide a site plan that shows, at a minimum, the following:

- ☐ a. Location of proposed buildings and landscape areas.
- ☐ b. Access and circulation for vehicles and pedestrians.
- ☐ c. Maximum height of any proposed structures, with building elevations.
- ☐ d. For residential development: Maximum number of proposed dwelling units.
- ☐ e. For non-residential development:
  - ☐ Total gross floor area of proposed project.
  - ☐ Gross floor area for each proposed use.



From: Office of Neighborhood Coordination  
To: [Theresa Wells](#)  
Subject: [Online Public Notice Inquiry Sheet Submission](#)  
Date: Friday, May 31, 2024 2:28:43 PM  
Attachments: [mailinglist](#)

PLEASE NOTE:

The neighborhood contact information listed below is valid for 30 calendar days after today's date.

Dear Applicant:

Please find the neighborhood contact information listed below. Please make certain to read the information further down in this e-mail as it will help answer other questions you may have.

Association Name	Association Email	First Name	Last Name	Email	Alternative Email	Address Line 1	Address Line 2	City	State	Zip	Mobile	Phone
ABC Park NA		Shirley	Lackey	shirleylackey@gmail.com		7501 Sky Court Circle NE		Albuquerque	NM	87109		5057307344
ABCCore Neighborhood Association	abccorena@gmail.com	Tiffany	Mojarro	tiffany.m127@gmail.com		7504 Sky Court Circle NE		Albuquerque	NM	87102		5056262943
ABCCore Neighborhood Association	abccorena@gmail.com	Ken	Sears	ken@cm-wellness.com		400 Gold Ave SW, Ste 130		Albuquerque	NM	87102		5056606070
Academy Estates East NA		Pam	Candelaria	pcandelaria@gmail.com		PO Box 3674		Albuquerque	NM	87103		2678089144
Academy Estates East NA		Larry	Pope	lepope@msn.com		5000 Galaxia Way NE		Albuquerque	NM	87111		5058213077
Academy Estates East NA		James	Santibanez	jsantib@777@yahoo.com		5609 Cometa Court NE		Albuquerque	NM	87111		5054580885
Academy Hills Park NA	academyhillsparkna@gmail.com	Nadine	Wloski	nwloski@comcast.net		9816 Compadre Lane NE		Albuquerque	NM	87111		505621808
Academy Hills Park NA	academyhillsparkna@gmail.com	Walter	Olsen	Chipton44@gmail.com		6015 Los Hermanos CT NE		Albuquerque	NM	87111	5052282165	
Academy North NA	amapresident505@gmail.com	Adam	Warrington	adamwarr@hotmail.com		8400 Farrot Run Road NE		Albuquerque	NM	87109		5056101820
Academy North NA	amapresident505@gmail.com	Debra	Welling	dwelling@outlook.com		8112 Ruidoso NE		Albuquerque	NM	87111		5052807779
Academy Ridge East NA	arena1711@gmail.com	Tom	Arnold	arnoldtom@yahoo.com		10901 Academy Ridge Road NE		Albuquerque	NM	87111	5055730535	
Academy Ridge East NA	arena1711@gmail.com	Ellen	Wilsey	ellenw@comcast.net		10828 Academy Ridge Road NE		Albuquerque	NM	87111		5055033821
Alamosa NA		Jerry	Gallegos	jgallegosvc@gmail.com		5921 Central Avenue NW		Albuquerque	NM	87105	5053855809	50538362976
Alamosa NA		Jeanette	Baca	jeanettebaca73@gmail.com		900 Field SW		Albuquerque	NM	87121	5053792976	50538362976
Altura Addition NA		Jon	Wright	wright_jd@gmail.com		1826 Solares Drive NE		Albuquerque	NM	87110	9808598457	
Altura Addition NA		Denise	Hammer	sarchero@aol.com		1735 Altio Drive NE		Albuquerque	NM	87110		5052681250
Altura Park NA	alturapark@gmail.com	Robert	Jackson	rajackson@msn.com		4125 Hammett NE		Albuquerque	NM	87110		5052104518
Altura Park NA	alturapark@gmail.com	Neal	Sepers	nspeers@bhs.org		4205 Hammett NE		Albuquerque	NM	87110	7346585577	
Alvarado Gardens NA	president@alvaradoneighborhood.com	Olivia	Hunt	president@alvaradoneighborhood.com		2820 Candelaria Road NW		Albuquerque	NM	87107	5053535933	
Alvarado Gardens NA	president@alvaradoneighborhood.com	Michael	Dexter	mdexter49@gmail.com		3015 Calle San Ysidro NW		Albuquerque	NM	87107	5052879648	
Alvarado Park NA		Elissa	Dente	elissa.dente@gmail.com		PO Box 35704		Albuquerque	NM	87176	5055733887	
Alvarado Park NA		Mary	Erwin	maryerw@gmail.com		PO Box 35704		Albuquerque	NM	87176	5052508158	
Antelope Run NA	antelope.run.abcd@gmail.com	James	Robinson	alexrobbin@comcast.net		12023 18th Avenue NE		Albuquerque	NM	87111	5056109641	5052940473
Antelope Run NA	antelope.run.abcd@gmail.com	Kenneth	Fabizak	kfabizak@hsbglobal.net		12021 18th Ave NE		Albuquerque	NM	87111		7732515893
Arroyo Del Oso North NA	adoneneighborhood@gmail.com	Willie	Orer	willieor1@msn.com		7930 Academy Trail NE		Albuquerque	NM	87109	3039105707	
Arroyo Del Oso North NA	adoneneighborhood@gmail.com	Samantha	Darling	sardling713@gmail.com		7819 Academy Trail		Albuquerque	NM	87109		5054536508
Bacteria NA	bacteria@gmail.com	Sean	Petters	seanpetters@icloud.com		205 Iron AVE SW		Albuquerque	NM	87102		5054084116
Bacteria NA	bacteria@gmail.com	George	Franco	gfranco4@outlook.com		1112 Bacteria SW		Albuquerque	NM	87102	5056204513	5052443907
Bear Canyon NA		Brian	Stone	bstone@yahoo.com		5800 La Madera NE		Albuquerque	NM	87109	5057715356	
Bear Canyon NA		Patsy	Beck	patsybeck@aol.com		7518 Bear Canyon Road NE		Albuquerque	NM	87109		5052397897
Bekah NA	board@banam.org	Barb	Johnson	hpc2@juno.com		2700 Hermosa Drive NE		Albuquerque	NM	87110	5053796187	
Bekah NA	board@banam.org	Seeth	Abenewa	seetha@hotmail.com		2838 Marcano Street NE		Albuquerque	NM	87110	5056079314	
Campus NA	campus.neighborhood.assoc@gmail.com	Calvin	Martin	calmartin93@gmail.com		411 Girard Boulevard NE		Albuquerque	NM	87106		5054127609
Campus NA	campus.neighborhood.assoc@gmail.com	Kenny	Stansbury	kenny.stansbury@gmail.com		615 Vassar NE		Albuquerque	NM	87106		5054643476
Cherry Hills Civic Association		Roger	Vaughn	rvaughn-n@comcast.net		6912 Red Sky Road NE		Albuquerque	NM	87111	5056882313	
Cherry Hills Civic Association		Kevin	Smith	ksmith@comcast.net		4815 Red Sky Road NE		Albuquerque	NM	87111	5056314993	
Cibola Loop NA	tearant@aol.com	Julie	Ruel	tearant@aol.com		10700 Del Sol Park Drive NW		Albuquerque	NM	87114	5052318189	
Cibola Loop NA	tearant@aol.com	Ginny	Forrest	gforrest47@comcast.net		4113 Logan Road NW		Albuquerque	NM	87114	5054170373	
Cibola NA	josefne@yahoo.com	Joseph	Freeman	josefne@yahoo.com		13316 Tierra Montanosa Drive NE		Albuquerque	NM	87112	703077929	
Cibola NA	josefne@yahoo.com	Alexander	McIntosh	alexander.mcintosh@gmail.com		2518 Madrid Drive NE		Albuquerque	NM	87111	5052434886	
Cielito Lindo NA	cielito7111@gmail.com	Patricia	Dude	pat.dude.52@gmail.com		3720 Camino Capistrano NE		Albuquerque	NM	87111	5054403735	5052922015
Cielito Lindo NA	cielito7111@gmail.com	Karl	Huttler	khuttler@aol.com		3705 Camino Capistrano NE		Albuquerque	NM	87111	5052506705	
Citizens Information Committee of Martineztown	cicm-na@comcast.net	Kristi	Houde	kristi42898@icloud.com		617 Edith Boulevard NE	NR	Albuquerque	NM	87102	5053661439	
Citizens Information Committee of Martineztown	cicm-na@comcast.net	Renee	Martinez	martinez_renee@gmail.com		515 Edith Boulevard NE		Albuquerque	NM	87102	5054338122	5052474805
Clayton Heights Lomas del Cielo NA		Colonna	Salati	colonna@comcast.net		1720 Buena Vista NE		Albuquerque	NM	87105	5056502414	5052444854
Clayton Heights Lomas del Cielo NA		Eloisa	Molina-Dodge	e_molinaododge@yahoo.com		1704 Buena Vista SE		Albuquerque	NM	87106		5052434322
Comanche Foothills NA	alldirectors@comanchefoothills.org	Olga	Mejencan	president@comanchefoothills.org		3305 Occitillo Court NE		Albuquerque	NM	87111	2294047153	
Comanche Foothills NA	alldirectors@comanchefoothills.org	Sarah	Thomas	vicepresident@comanchefoothills.org		3308 Occitillo Court NE		Albuquerque	NM	87111		505409883
Crestview Bluff Neighbors Association	crestviewneighbors@outlook.com	Colbert	Seibert	colbertseibert@gmail.com		808 Alta Vista Court SW		Albuquerque	NM	87105	5058445528	
Crestview Bluff Neighbors Association	crestviewneighbors@outlook.com	Alfred	Otero	alotero57@gmail.com		414 Crestview Drive SW		Albuquerque	NM	87105		505105749
Del Norte NA		Mary	White	whiteLink@aol.com		4913 Overland Street NE		Albuquerque	NM	87109	5056201353	
Del Norte NA		Mary	Bernard	bernardm@comcast.net		6224 Baker Avenue NE		Albuquerque	NM	87109	5053498113	5058059229
Del Webb Minerveen NA	dewebbnm@gmail.com	Robert	Shaggy	robshaggy@gmail.com		2208 Coburgart Way NW		Albuquerque	NM	87110		5052385033
Del Webb Minerveen NA	dewebbnm@gmail.com	Alison	Gubiny	adabynm@gmail.com		2232 Cebolla Creek Way NW		Albuquerque	NM	87120		9163456063
Delmar NA		Gina	Berna	dmarnaz@gmail.com		5122 Ensenada Place NW		Albuquerque	NM	87107		505540723
Delmar NA		Susan	Carroll	susanpatcarroll@gmail.com		5013 San Luis Place NW		Albuquerque	NM	87107		5055141862
District 4 Coalition of Neighborhood Associations		Griffen	Wright	griffenw@comcast.net	sec_dist4@gmail.com	4030 Cherry Hills RD NE		Albuquerque	NM	87111	5052800382	
District 4 Coalition of Neighborhood Associations		Ellen	Dunneke	edunneke@juno.com		505 Dartmouth Drive SE		Albuquerque	NM	87106	5059808007	
District 6 Coalition of Neighborhood Associations		Patricia	Wilson	info@wilsonstudio.com		505 Dartmouth Drive SE		Albuquerque	NM	87106		5059804265
District 6 Coalition of Neighborhood Associations		M. Ryan	Kious	m.ryankious@gmail.com		1108 Georgia SE		Albuquerque	NM	87108		5059804265
District 7 Coalition of Neighborhood Associations		Michael	Kious	mikekious@aol.com		7901 Palo Duro Avenue NE		Albuquerque	NM	87110	5059778967	
District 7 Coalition of Neighborhood Associations		James	Arnold-Jones	arnoldjones70@gmail.com		7713 Sierra Azul Avenue NE		Albuquerque	NM	87110		5055790002
District 8 Coalition of Neighborhood Associations	district8coalition@gmail.com	Idalia	Lechuga-Tena	jamesarnoldjonesdistrict@gmail.com	idaliah@gmail.com	4405 Prairie Loft Way NE		Albuquerque	NM	87111	5055033868	
District 8 Coalition of Neighborhood Associations	district8coalition@gmail.com	Bob	Fass	robass@comcast.net		5226 Edwards Drive NE		Albuquerque	NM	87112	5052298474	5052935457
District 9 East Gateway Coalition		Michael	Brasher	eastgatewaycoalition@gmail.com		1506 2ma Luna NE		Albuquerque	NM	87111	5053822964	5052888112
District 9 East Gateway Coalition		Julie	Stokke	stokkejulie@comcast.net		13917 Indian School Road NE		Albuquerque	NM	87112	5053218955	5052966270
Downtown Neighborhoods Association		Sylvia	Holgoin	syviaholgoin@yahoo.com		1503 Marble Ave NW		Albuquerque	NM	87104		516849683
Downtown Neighborhoods Association		Danny	Senn	lennn@hsbglobal.net		506 12th Street NW		Albuquerque	NM	87102	5058050770	
Eastrange Piedra Vista NA	erpsaob@gmail.com	Debra	Cranwell	rdbrdrde@aol55@gmail.com		14349 Marquette Drive NE		Albuquerque	NM	87123		5052398245
Eastrange Piedra Vista NA	erpsaob@gmail.com	Jan	Smith	jsmith19@hotmail.com		1119 Desalito DR NE		Albuquerque	NM	87123		267924375
Eastridge NA	tgprussusen@msn.com	Vernity	Gerbis	verngib@yahoo.com		12077 Donna Court NE		Albuquerque	NM	87112		5052966557
Eastridge NA	tgprussusen@msn.com	Gail	Ramusson	tgprussusen@msn.com		12225 Cedar Ridge Drive NE		Albuquerque	NM	87112		5052966557
Edo NA Incorporated		David	Tanner	david@edoab.com		124 Edith Boulevard NE		Albuquerque	NM	87102		5052059229
Edo NA Incorporated		Robert	Anderson	robertanderson@rian-development.com		6300 Riverside Plaza Drive NW	200	Albuquerque	NM	87109	84789774228	
Elder Homestead NA	elderhomesteadna@gmail.com	Sandra	Pruess	sp-wonderwonder@comcast.net		8001 California Street SE		Albuquerque	NM	87108	5052209158	
Elder Homestead NA	elderhomesteadna@gmail.com	M. Ryan	Kious	m.ryankious@gmail.com		1108 Georgia SE		Albuquerque	NM	87108		5059804265
Embudo Canyon NA	ecnamab@gmail.com	Joel	Hardgrave	jhardgrave50@gmail.com		13225 Agnes Court NE		Albuquerque	NM	87112	5052669253	5052506028
Embudo Canyon NA	ecnamab@gmail.com	Julie	Dreike	dreikejulie@comcast.net		18917 Indian School Road NE		Albuquerque	NM	87112	5053218955	5052966270
Fair West NA	abofarwest@gmail.com	Katherine	Tuner	turnerkatherine@outlook.com		616 Valencia Drive NE		Albuquerque	NM	87108	5058188859	
Fair West NA	abofarwest@gmail.com	Nick	Humli	nickh127@icloud.com		800 Materra Drive NE		Albuquerque	NM	87108		7025094740
Four Hills Village Association	fwvaps@gmail.com	Andrew	Lipman	fwvaps@gmail.com		709 Wagon Train Drive SE		Albuquerque	NM	87123		5054809883
Four Hills Village Association	fwvaps@gmail.com	Herb	Wright	herbwright@peoplepc.com		723 Wagacash Road SE		Albuquerque	NM	87123	5055209796	
Gavilan Addition NA	ghaskins1@aol.com	Glenn	Wells	glennw@aol.com		5921 Pauline Street NW		Albuquerque	NM	87107		505444513
Gavilan Addition NA	ghaskins1@aol.com	Bret	Haukins	bhaukins1@aol.com		5912 Pauline Street NW		Albuquerque	NM	87107		5058773893
Glenwood Hills NA		Forest	Owens	woody761@yahoo.com		12812 Cedarbrook NE		Albuquerque	NM	87111		5054537728
Glenwood Hills NA		James	Levy	james.levy@gmail.com		12804 Manatoba NE		Albuquerque	NM	87111		5053034040
Greener Gardens & Montebello NA	ggnaob@gmail.com	David	Wood	wood_cps@msn.com		158 Pleasant Avenue NW		Albuquerque	NM	87107	5052212626	
Greener Gardens & Montebello NA	ggnaob@gmail.com	Heise	Wolkow	hwolkow@hotmail.com		4608 3rd Street NW		Albuquerque	NM	87107		5052940473
Heritage East Association of Residents	hear-president@gmail.com	Paul	Jensen	realtynewmexico@gmail.com		9304 San Rafael Avenue NE		Albuquerque	NM	87109	5053133684	
Heritage East Association of Residents	hear-president@gmail.com	Daniel	Martinez	realtynewmexico@gmail.com		9109 Ridgefield NE		Albuquerque	NM	87109	5052623075	
Highland Business and NA Incorporated	hbanahighland@gmail.com	Omar	Durant	odurant@bellsouth.com		365 Quincy Street NE		Albuquerque	NM	87108		5052648949
Highland Business and NA Incorporated	hbanahighland@gmail.com	Hallee	Rosbach	hallee@comcast.net		413 Adams ST NE		Albuquerque	NM	87		

Loma Del Rey NA		Jessica	Arrijo	jarmij2@outlook.com	3701 Erbebe Street NE	Albuquerque	NM	87111	5054001221
Los Altos Civic Association	losaltoscivic@gmail.com	Adriana	La Rosa	adrianalarosa@yahoo.com	2883 Los Altos Place SW	Albuquerque	NM	87105	5125287088
Los Altos Civic Association	losaltoscivic@gmail.com	David	Solis	dsolis@att.net	815 No Valley Court NW	Albuquerque	NM	87105	5054171560
Los Duranes NA	losduranesneighborhood@gmail.com	William	Herring	billherring@comcast.net	3004 Coca Road NW	Albuquerque	NM	87004	505281553
Los Duranes NA	losduranesneighborhood@gmail.com	Lee	Gambely	lee@igam.com	2412 Miles Road SE	Albuquerque	NM	87106	5054288605
Los Gringos NA	losgringos2012@gmail.com	Mary Beth	Thorn	losgringos2012@gmail.com	4530 San Pedro Street NE	Albuquerque	NM	87107	2526755366
Los Gringos NA	losgringos2012@gmail.com	Senio	Juvel	senio@att.net	3131 Valley View Court NW	Albuquerque	NM	87109	505942000
Los Poblanos NA	mail@lospoblanos.com	Karon	Bout	kibout@gmail.com	1007 Sandia Road NW	Albuquerque	NM	87107	5051456002
Los Poblanos NA	mail@lospoblanos.com	Don	Newman	don.newman@mac.com	5723 Guadalupe Trail NW	Albuquerque	NM	87107	5051443900
Los Volcanes NA		Ted	Trujillo	tedcarr@live.com	6601 Honeycreek Avenue NW	Albuquerque	NM	87121	5058508875
Los Volcanes NA		Doug	Casper	doug@casper.org	16802 Elmhurst Avenue NW	Albuquerque	NM	87121	5051311000
Mark Twain NA		Barbara	Lubbeck	barbaral12@comcast.net	1402 California Street NE	Albuquerque	NM	87110	5052519132
Mark Twain NA		Joel	Woodridge	joel.woodridge@gmail.com	1500 Indiana Street NE	Albuquerque	NM	87110	5053897880
Matthew Meadow NA Incorporated	matthewmeadowna@gmail.com	Henryk	Sloma	henryk.sloma@gmail.com	1515 Camino Encuentre NW	Albuquerque	NM	87107	5053032192
Matthew Meadow NA Incorporated	matthewmeadowna@gmail.com	Stefia	Talibelli	stefia@att.net	1884 Camino Rosa NW	Albuquerque	NM	87107	5054171560
McChulte Twin Parks NA	mpasassociation@gmail.com	Carly	Orate	carlyorate@gmail.com	4203 Avenida La Rosanita NE	Albuquerque	NM	87110	5052325045
McChulte Twin Parks NA	mpasassociation@gmail.com	Carol	Morris	carolamorris@aol.com	4137 Marble Avenue NE	Albuquerque	NM	87110	5056041013
McKinley NA	mckinleyneighbor@gmail.com	Wilfred	Lucero	lucero@willfred@gmail.com	3707 Headgley NE	Albuquerque	NM	87110	5058047411
McKinley NA	mckinleyneighbor@gmail.com	Jesse	Holly	jesseli@att.net	4843 Shepard Road NE	Albuquerque	NM	87110	505998822
Mesa Del Sol NA		David	Mills	dmills44@gmail.com	3400 Cunningham Avenue SE	Albuquerque	NM	87106	5052399521
Mesa Del Sol NA		Cathy	Burns	caburns170@gmail.com	2201 Steigitz Avenue SE	Albuquerque	NM	87106	5051304322
Mile Hi NA		Jean	Davis	jeand246@hotmail.com	1405 Valencia Drive NE	Albuquerque	NM	87110	5054109179
Mile Hi NA		Matt	Carroll	mcarroll92@gmail.com	5137 Summer Avenue NE	Albuquerque	NM	87110	5759106446
Mission Rock NA		Jeff	Yegorov	jeff@yegorov.org	7916 Victoria Drive NW	Albuquerque	NM	87120	5052634269
Mission Rock NA		Michael	Vogel	mvogel75@hotmail.com	6504 Jade Dr NW	Albuquerque	NM	87120	5052634269
Mossman NA	mossmanneighborhoodassociation@gmail.com	Marya	Hegelmeyer	maryaen1@gmail.com	3418 Dakota Street NE	Albuquerque	NM	87110	5052613660
Mossman NA	mossmanneighborhoodassociation@gmail.com	Craig	Degenhardt	mr.craigdegenhardt@gmail.com	3518 San Pedro Dr NE	Albuquerque	NM	87110	5052345611
Near North Valley NA	nearnorthvalleyna@gmail.com	Joe	Sabatini	jsabatini2@gmail.com	3514 6th Street NW	Albuquerque	NM	87109	5058057405
Near North Valley NA	nearnorthvalleyna@gmail.com	Jeff	Bohrlert	nearnorthvalleyna@gmail.com	PO Box 6653	Albuquerque	NM	87107	5052634308
Netherwood Park NA	netherwoodpark@gmail.com	William	Gannon	wgannon@burn.edu	1726 Notre Dame NE	Albuquerque	NM	87106	5052457906
Netherwood Park NA	netherwoodpark@gmail.com	Sara	Mills	saramills@comcast.net	2629 Cutler Avenue NE	Albuquerque	NM	87106	5054506712
Nob Hill NA	netherwoodhill-nm.com	Gary	Expier	gexpier1@gmail.com	316 Anshett Drive NE	Albuquerque	NM	87106	5058911388
Nob Hill NA	netherwoodhill-nm.com	Chris	Chodoff	chodoff@att.net	512 Fontana Place NE	Albuquerque	NM	87108	5050616583
Nor Este NA		Uri	Bassan	uri.bassan@noretex.com	9000 Modesto Avenue NE	Albuquerque	NM	87122	5054179990
Nor Este NA		Gina	Prokinto	gprokinto003@gmail.com	PO Box 9415	Albuquerque	NM	87109	5052385495
North Campus NA	northcampusna@gmail.com	Tim	Davis	tdavis@nm.com	2404 Hannett NE	Albuquerque	NM	87106	5052643524
North Campus NA	northcampusna@gmail.com	Maria	Mullen	mmullen@att.net	1400 Hannett Ave NE	Albuquerque	NM	87110	5057151160
North Domingo Baca NA		Judie	Pellegrino	judy@pellegrino.org	8515 Murrelet Drive NE	Albuquerque	NM	87113	5058218516
North Domingo Baca NA		Lorna	Howerton	lhowerton937@gmail.com	7201 Pennington Road NE	Albuquerque	NM	87113	5057157895
North Eastern Association of Residents	near_neighborhood@gmail.com	Andrew	Burnett	aburnett505@gmail.com	9734 Morrow AVE NE	Albuquerque	NM	87112	5053280953
North Eastern Association of Residents	near_neighborhood@gmail.com	Madal	Michael	madal@att.net	1829 Main St NE	Albuquerque	NM	87110	5057157886
North Valley Coalition	nvcabo@gmail.com	Peggy	Norton	peggy@norton@yahoo.com	3810 11th Street NW	Albuquerque	NM	87107	5053455667
North Valley Coalition	nvcabo@gmail.com	James	Salazar	jalsalazarm@gmail.com	5025 Guadalupe Trail NW	Albuquerque	NM	87107	5054895040
Onate NA	resident@onatenegborhood.org	Alex	Rahimi	alexanderahimi@yahoo.com	1816 Page Place NE	Albuquerque	NM	87112	5053303320
Onate NA	resident@onatenegborhood.org	Sharon	Ratz	sharonr14@gmail.com	1822 Page Place Northwest	Albuquerque	NM	87112	5052345611
Oso Grande NA	info@osoandena.org	Bob	Foss	rob@foss.com	5238 Edwards Drive	Albuquerque	NM	87113	5052394774
Oso Grande NA	info@osoandena.org	Jane	McGuigan	janemc0@gmail.com	4924 Puncoti Drive NE	Albuquerque	NM	87111	5059511884
Paloma Del Sol NA	palomaspark@gmail.com	Bob	McEaney	bob.mceaney@yahoo.com	5009 San Timoteo Avenue NW	Albuquerque	NM	87114	3121218454
Paloma Del Sol NA	palomaspark@gmail.com	Roland	Quintana	rolandq@gmail.com	10412 Calle Centeno NW	Albuquerque	NM	87114	5052637220
Paloma Park NA	palomaspark@gmail.com	David	March	dmarch17@comcast.net	7504 Lester Avenue NE	Albuquerque	NM	87109	5054511644
Paradise Hills Civic Association	phcascod@gmail.com	Ann	Wagner	annwagner10@gmail.com	7209 Galland Avenue NE	Albuquerque	NM	87109	5053622418
Paradise Hills Civic Association	phcascod@gmail.com	Elizabeth	Haley	elizabethhaley@gmail.com	6005 Chaparral Circle NW	Albuquerque	NM	87114	5054074381
Parkland Hills NA	phnacommunications@gmail.com	Kym	Fleck	kym.fleck@gmail.com	10216 La Paz Dr NW	Albuquerque	NM	87114	5052708886
Parkland Hills NA	phnacommunications@gmail.com	John	Schick	johnschickcommunications@gmail.com	725 Van Buren Place SE	Albuquerque	NM	87108	5052390239
Parkland Hills NA	phnacommunications@gmail.com	Peter	Kalitos	peterkalitos@gmail.com	921 Pampas Drive SE	Albuquerque	NM	87108	5054634356
Parkway NA	parkwaypoint@yahoo.com	V. D.							
Parkway NA	parkwaypoint@yahoo.com	Michael	Shynkar	parkwaypoint@yahoo.com	8023 Waterbury Avenue NW	Albuquerque	NM	87120	5052641631
Pat Hurley NA	parkwaypoint@yahoo.com	Sierra	Barbara	vicepresident.phna@gmail.com	8023 Waterbury AVE NW	Albuquerque	NM	87105	5052668855
Pepper Tree Royal Oak Residents Association	a.verardo@comcast.net	Julie	Radoslovich	president.phna@gmail.com	636 Atisco Drive NW	Albuquerque	NM	87105	5053524440
Pepper Tree Royal Oak Residents Association	a.verardo@comcast.net	Art	Verardo	a.verardo@comcast.net	235 Mescal Circle NW	Albuquerque	NM	87105	5053524440
Piedra Marcadas NA	pmaabog@gmail.com	Arny	Pacheco	arnypacheco@gmail.com	11901 San Victoriano Avenue NE	Albuquerque	NM	87111	5052966602
Piedra Marcadas NA	pmaabog@gmail.com	Debbie	Koray	debbie.koray@gmail.com	6104 Rensselaer Court NE	Albuquerque	NM	87111	5053328205
Piedra Marcadas NA	pmaabog@gmail.com	Robert	Lowlor	rlowlor19@gmail.com	9323 Rensselaer Court NE	Albuquerque	NM	87114	5059919621
Pueblo Alto NA	pnaabog@gmail.com	Tina	Valentine	autismym@msn.com	4805 Mikel Court NW	Albuquerque	NM	87114	2063275444
Pueblo Alto NA	pnaabog@gmail.com	Tyler	Reicher	tylerreicher@gmail.com	916 Madison Street NE	Albuquerque	NM	87110	5059480760
Quaker Heights NA	quakerheightsna@gmail.com	Orlando	Martinez	orlandomartinez@gmail.com	801 Madison NE	Albuquerque	NM	87110	5052392903
Quaker Heights NA	quakerheightsna@gmail.com	Vannesa	Alarid	valarid@gmail.com	5808 Jones Place NW	Albuquerque	NM	87120	5053602508
Quigley Park NA	quigleypark@gmail.com	Lisa	Whalen	lisa.whelen@gmail.com	3404 Grande Vista NW	Albuquerque	NM	87120	5055030640
Quigley Park NA	quigleypark@gmail.com	Maureen	Maher	mrmaher@gmail.com	2713 Cardenas Drive NE	Albuquerque	NM	87110	5052770268
Quintessence NA	qna.abog@gmail.com	Laundrea	Board	president.qna.abog@gmail.com	2935 Cardenas Drive NE	Albuquerque	NM	87110	5058851811
Quintessence NA	qna.abog@gmail.com	QINA	Board	qna.abog@gmail.com	10012 Condado Avenue NE	Albuquerque	NM	87123	5057972466
Rancho Sereno NA	board@abprna.com	Debra	Cox	debracox46@comcast.net	4325 25th St NE	Albuquerque	NM	87154	4325381535
Rancho Sereno NA	board@abprna.com	Alan	Schwartz	aschwartz47@comcast.net	8209 Rancho Paraiso NW	Albuquerque	NM	87120	5052388563
Raynolds Addition NA	raynoldsneighborhood@gmail.com	James	Maure	jamemaure@gmail.com	4409 Rancho Cento Court NW	Albuquerque	NM	87120	5058807142
Raynolds Addition NA	raynoldsneighborhood@gmail.com	Muano	Perrigo	perrigo.muano@gmail.com	886 Los Arbores NW	Albuquerque	NM	87109	8427079645
Rio Grande Boulevard NA		David	Michalski	chowch81@gmail.com	1325 Park Ave SW	Albuquerque	NM	87103	4048259765
Rio Grande Boulevard NA		Doyle	Kimbrough	newmexna@aol.com	3533 Luke Circle NW	Albuquerque	NM	87107	5054807675
River View Heights NA		Cyrus	Tall	tolloose1@gmail.com	2327 Campbell Road NW	Albuquerque	NM	87104	5052490938
River View Heights NA		John	Clark	clarkj4@gmail.com	1806 River View Drive NW	Albuquerque	NM	87105	5052052513
Route 66 West NA		Cherie	Quarada	cheriequarada@yahoo.com	3825 River View Drive NW	Albuquerque	NM	87105	5052119108
Route 66 West NA		Paul	Fava	pauffava@gmail.com	10304 Paso Fino Place SW	Albuquerque	NM	87121	5052631178
Sandia High School Area NA		John	Kious	nikkio@att.net	505 Panelli Drive SW	Albuquerque	NM	87121	5053853202
Sandia High School Area NA		James	Jones	james.jones.sm@gmail.com	7901 Paso Duro Avenue NE	Albuquerque	NM	87110	5056778667
Santa Barbara Martinestown NA	sbmartintown@gmail.com	Loretta	Narajo Lopez	lnarajo@gmail.com	7113 Santa Fe NE	Albuquerque	NM	87110	5056041935
Santa Barbara Martinestown NA	sbmartintown@gmail.com	Andrew	Talita Leverett	valencia2@gmail.com	1127 Walter NE	Albuquerque	NM	87102	5052707716
Santa Fe Village NA	sfvna2014@gmail.com	Irene	Libretto	jlibretto@gmail.com	1528 Edith Blvd NE	Albuquerque	NM	87102	5056152086
Santa Fe Village NA	sfvna2014@gmail.com	Wynne	Whitig	wynne@sfvna2014@gmail.com	6917 Sweetwater Avenue NW	Albuquerque	NM	87120	5164286382
Swamli Area NA	swamlinneighbor@gmail.com	Mari	Kempston	mari.kempston@gmail.com	6708 Lamar Avenue NW	Albuquerque	NM	87109	5057201449
Swamli Area NA	swamlinneighbor@gmail.com	Amanda	Browne	browne.amanda.jane@gmail.com	1305 Claire Court NW	Albuquerque	NM	87104	6122260658
Siesta Hills NA	siesta2na.pes@gmail.com	Rachel	Baca	siesta2na.pes@gmail.com	1314 Claire Court NW	Albuquerque	NM	87104	6097600743
Siesta Hills NA	siesta2na.pes@gmail.com	Nick	Franchini	nickfranchini@gmail.com	1301 Odium SE	Albuquerque	NM	87108	5055630156
Siesta Hills NA	siesta2na.pes@gmail.com	Jacquelin	Oben	siesta2na.pes@gmail.com	2621 Ridgmont Drive	Albuquerque	NM	87108	5059349230
Silver Hill NA	silverhillabog@gmail.com	James	Montalbano	ja.montalbano@gmail.com	1117 Ridgmont Loop SE	Albuquerque	NM	87108	5059106725
Silver Hill NA	silverhillabog@gmail.com	Eva	Blaylock	ewarokstar@gmail.com	1409 Silver Avenue NE	Albuquerque	NM	87106	50524330827
Singing Arrow NA	absqna@gmail.com	Sarah	Orlando	sarahorlando@gmail.com	1920 Gold SE	Albuquerque	NM	87106	5054808098
Singing Arrow NA	absqna@gmail.com	Reg	Beck	regbeck1@gmail.com	12608 Tomlinson Dr SE	Albuquerque	NM	87123	5152699221
South Broadway NA	absqna@gmail.com	Frances	Arrijo	farrjo@gmail.com	12801 Pine Boulevard SE	Albuquerque	NM	87109	5034892967
South Broadway NA	absqna@gmail.com	Onadine	Jaramillo	onadine@gmail.com	915 William SE	Albuquerque	NM	87102	5054003473
South Guadalupe Trail NA	jalsalazarm@gmail.com	Nicole	Gonzalez	nigonzalez021@gmail.com	212 Avenida Cesar Chavez SE	Albuquerque	NM	87102	5052345156
South Guadalupe Trail NA	jalsalazarm@gmail.com	James	Salazar	jalsalazarm@gmail.com	1500 Douglas MacArthur Road NW	Albuquerque	NM	87107	5753036897
South Los Altos NA	contact@slanarim.com	Debbie	Conger	debbie@ewcp.com	5025 Guadalupe Trail NW	Albuquerque	NM	87107	5054895040
South Los Altos NA	contact@slanarim.com	Jim	Alfred	notice@slanarim.com	425 Espejo Street NE	Albuquerque	NM	87123	5054060493
South San Pedro NA		Maria	Mullen	mmullen@att.net	304 General Bradley NE	Albuquerque	NM	87123	6139874121
South San Pedro NA		Aaron	Wilson	talles@gmail.com	724 Cardenas Drive NE	Albuquerque	NM	87108	5052759663
South West Alliance of Neighborhoods (SWAN Coalition)		Gerardine	Ullbrin	gerulbrin@gmail.com	609 Valencia Dr SE	Albuquerque	NM	87108	5053632192
South West Alliance of Neighborhoods (SWAN Coalition)		Lorenzo	Olivero	housalchome@gmail.com	9009 Starboard NW	Albuquerque	NM	87121	5059706851
Southeast Heights NA	sehna.membership@gmail.com	Fate	Wright	fatewright@comcast.net	1413 Hilda Ct NW	Albuquerque	NM	87105	5058512521
Southeast Heights NA	sehna.membership@gmail.com	Pete	Belletto	pmbelto@yahoo.com	1007 Glenville Lane SE	Albuquerque	NM	87108	5052354398
Spruce Park NA	emailbrown@aol.com	Peter	Switt	pswitt@comcast.net	902 Valverde Drive SE	Albuquerque	NM	87108	5052064957
Spruce Park NA	emailbrown@aol.com	Hendi	Brown	emailbrown@aol.com	613 Ridge Place NE	Albuquerque	NM	87106	5051793201
Stardust Skies Park NA		Ann	Lovely Peake	lovelypeak@aol.com	1613 Sigma Chi Road NE	Albuquerque	NM	87106	5052641783
Stardust Skies Park NA		Matt	Stratton	matt.stratton@gmail.com	2708 Bellrose NE	Albuquerque	NM	87110	5052687969
Stinson Tower NA	stnapes@outlook.com	Bruce	Ruizen	stnapes@outlook.com	7309 Bellrose NE	Albuquerque	NM	87110	5054170004
Stinson Tower NA	stnapes@outlook.com	Emilio	Chavez	echavez49@gmail.com	1225 Rail Street SW	Albuquerque	NM	87121	5055858096
Stronghurst Improvement Association Incorporated		William	Sabatini	wsabatini@gmail.com	3670 Tower Rd SW	Albuquerque	NM	87121	5056487034
Stronghurst Improvement Association Incorporated		Mark	Unser	abert@comcast.net	2994 Arno Street NE	Albuquerque	NM	87107	5052504097
Summit Park NA	summitparkna@gmail.com	Joe	Brooks	joebrooks@homebncabq.com	3010 Arno Street NE	Albuquerque	NM	87107	5056773474
Summit Park NA	summitparkna@gmail.com	Jen	Esquibel	jen.esquibel@gmail.com	1418 Wellesley Drive NE	Albuquerque	NM	87106	5059773474
Support Rock NA	admin@super-rock.org	Kathleen	Schneider Wright	kschneider@comcast.net	1405 Calle del Rancho NE	Albuquerque	NM	87123	5052752710
Support Rock NA	admin@super-rock.org	Chris	O'Leary	cmoleary@gmail.com	407 Monte Largo Drive NE	Albuquerque	NM	87123	5052669675
Sycamore NA		Richard	Vigilano	richardvigilano.net	680 Vista Abate Drive NE	Albuquerque	NM	87123	5052669675
Sycamore NA		Mardon	Garfield	malowdow@gmail.com	1282 Spirit Trail NE	Albuquerque	NM	87106	505809613
Taylor Ranch NA	president@trna.org	Rene	Horvath	horvath11@gmail.com	1205 Copper NE	Albuquerque	NM	87106	5058436154
Taylor Ranch NA	president@trna.org	Larlyn	Peters	lpeters@earthlink.net	411 Maple Street NE	Albuquerque	NM		

Vista Del Norte Alliance	vistadelnorte@me.com	James Souter	james@souter@msn.com		6928 Via del Cerro NE		Albuquerque	NM	87113		5052506866
Vista Grande NA	bradykloverlady@gmail.com	Richard Schaefer	Schaefer@unm.edu		3578 Sequoia Place NW		Albuquerque	NM	87120	5059179809	
Vista Grande NA	bradykloverlady@gmail.com	Brady Lorenzady	bradykloverlady@gmail.com		3508 Sequoia Road NW		Albuquerque	NM	87120		5053792553
Vista Magnifica Association		Tom Salas	beatfeet17@yahoo.com		1704 Cliffside Drive NW		Albuquerque	NM	87105		5058364571
Vista Magnifica Association		Anna Solano	madmiles@msn.com		1616 Bluffside Place NW		Albuquerque	NM	87105		5054532587
Wells Park NA	wellsparkna@gmail.com	Doreen McKnight	doreenmcknightm@gmail.com		1426 7th Street NW		Albuquerque	NM	87102		5056152937
Wells Park NA	wellsparkna@gmail.com	Edwina Kiro	edwina.kiro@yahoo.com		1013 Lynett Court NW		Albuquerque	NM	87104		5054805925
West Mesa NA	westmesaneighborhoodassociation@googlegroups.com	Michael Quintana	westmesad1@gmail.com		301 63rd Street NW		Albuquerque	NM	87105	5059380277	
West Mesa NA	westmesaneighborhoodassociation@googlegroups.com	Lorenzo Otero	houseofchrome@gmail.com		1413 Hilda Ct NW		Albuquerque	NM	87105		5053851251
West Old Town NA	westoldtownna@gmail.com	Gil Clarke	g.clarke45@comcast.net		2630 Alyssia Lane NW		Albuquerque	NM	87104		5058426620
West Old Town NA	westoldtownna@gmail.com	Robert Norman	robertnorman@sunshinehomes.com		2704 Corte Miraflores Rd NW		Albuquerque	NM	87104		9282376610
West Park NA	westparkna@gmail.com	Kelly White	csalwhite@gmail.com		2219 New York Avenue SW		Albuquerque	NM	87104		
West Park NA	westparkna@gmail.com	Melvin Andrews	melvin.andrews@gmail.com		2219 New York Avenue SW		Albuquerque	NM	87104	5057101363	
Westgate Heights NA	westgate9901@gmail.com	Matthew Archuleta	mattearchuleta1@hotmail.com		1628 Summerfield Place SW		Albuquerque	NM	87121	5054016849	
Westgate Heights NA	westgate9901@gmail.com	Christopher Sedillo	navmed@aol.com		605 Shire Street SW		Albuquerque	NM	87121	6193155051	
Westside Coalition of Neighborhood Associations		Aene Jernyeth	abowd11@gmail.com		5515 Palomero Drive NW		Albuquerque	NM	87120	5059852391	5058982114
Westside Coalition of Neighborhood Associations		Elizabeth Haley	elizabethhaleyhaley@gmail.com		6005 Chaparral Circle NW		Albuquerque	NM	87114	5054074381	
Wildflower Area NA		Rebecca Hall	kbhb@hotmail.com		8908 Bluegrass Court NE		Albuquerque	NM	87113	5052500343	
Wildflower Area NA		Glen Garcia	ggarcia103@comcast.net		4901 Goldenthread NE		Albuquerque	NM	87113		5052697832
Yale Village NA	yalevillage@comcast.net	Kim Love	klove726@gmail.com		2122 Cornell Drive SE		Albuquerque	NM	87106	5056882169	
Yale Village NA	yalevillage@comcast.net	Donald Love	donaldlove08@comcast.net		2125 Stanford Drive SE		Albuquerque	NM	87106	5054807175	

The ONC does not have any jurisdiction over any other aspect of your application beyond this neighborhood contact information. We can't answer questions about sign postings, pre-construction meetings, permit status, site plans, buffers, or project plans, so we encourage you to contact the Planning Department at 505-924-1857. Option #1, e-mail: [shelbier@cabq.gov](mailto:shelbier@cabq.gov), or visit: <https://www.cabq.gov/planning/online-design-development/public-notice> with these types of questions.

Please note the following:

- You will need to e-mail each of the listed contacts and let them know that you are applying for an approval from the Planning Department for your project.
- Please use this online link to find the required forms you will need to submit your permit application: <https://www.cabq.gov/planning/urban-design-development/public-notice>
- The Checklist form you need for notifying neighborhood associations can be found here: [https://documents.cabq.gov/planning/online-forms/PublicNotice/CABQ-Official\\_public\\_notice\\_form-2019.pdf](https://documents.cabq.gov/planning/online-forms/PublicNotice/CABQ-Official_public_notice_form-2019.pdf)
- The Administrative Decision form you need for notifying neighborhood associations can be found here: [https://documents.cabq.gov/planning/online-forms/PublicNotice/CABQ-Administrative\\_Decision\\_Fillable.pdf](https://documents.cabq.gov/planning/online-forms/PublicNotice/CABQ-Administrative_Decision_Fillable.pdf)
- Once you have e-mailed the listed contacts in each neighborhood, you will need to attach a copy of those e-mails AND a copy of this e-mail from the ONC to your application and submit it to the Planning Department for approval.

If your application requires you to offer a neighborhood meeting, you can click on this link to find required forms to use in your e-mail to the neighborhood association(s):

<https://www.cabq.gov/planning/urban-design-development/neighborhood-meeting-requirement-in-the-integrated-development-ordinance>

If your application requires a pre-application or pre-construction meeting, please plan on utilizing virtual platforms to the greatest extent possible and adhere to all current Public Health Orders and recommendations. The health and safety of the community is paramount.

If you have questions about what type of notification is required for your particular project or meetings that might be required, please click on the link below to see a table of different types of projects and what notification is required for each:

[https://data.cabq.gov/integrated-development-ordinance/sdo?documents=1&active\\_page=6-43727&view=full-screen&v=207446](https://data.cabq.gov/integrated-development-ordinance/sdo?documents=1&active_page=6-43727&view=full-screen&v=207446)

Thank you,

Suzie



**Suzie Flores**

Senior Administrative Assistant

Office of Neighborhood Coordination (ONC) | City Council Department | City of Albuquerque

(505) 768-3334 Office

E-mail: [suzanalflores@cabq.gov](mailto:suzanalflores@cabq.gov)

Website: [www.cabq.gov/neighborhood](http://www.cabq.gov/neighborhood)

From: [webmaster@cabq.gov](mailto:webmaster@cabq.gov) <webmaster@cabq.gov>

Sent: Friday, May 31, 2024 1:06 PM

To: Hermanson, Valerie <hermanson@cabq.gov>

Cc: Office of Neighborhood Coordination <onc@cabq.gov>

Subject: Public Notice Inquiry Sheet Submission

**[EXTERNAL]** Forward to [shelbier@cabq.gov](mailto:shelbier@cabq.gov), and delete if an email causes any concern.

Public Notice Inquiry For:

Environmental Planning Commission

If you selected "Other" in the question above, please describe what you are seeking a Public Notice Inquiry for below:

Contact Name:

Valerie Hermanson

Telephone Number:

505-768-4946

Email Address:

[shermanson@cabq.gov](mailto:shermanson@cabq.gov)

Company Name:

City of Albuquerque Department of Municipal Development

Company Address:

400 Marquette NW Ste. 303

City:

Albuquerque

State:

NM

ZIP:

87102

Legal description of the subject site for this project:

Amending the City of Albuquerque Bikeway and Trail Facilities Plan (rank II plan)

Physical address of subject site:

Citywide

Subject site cross streets:

Citywide

Other subject site identifiers:

This site is located on the following zone atlas page:

Citywide

Capcha:

x

[Note: Items with an asterisk (\*) are required.]

## Public Notice of a Hearing in the City of Albuquerque for a Policy Decision

Date of Notice\*: 6/4/24

This notice of an application for a proposed project is provided as required by Integrated Development Ordinance (IDO) [IDO §14-16-6-4\(K\)](#).<sup>1</sup>

- ☒ Emailed / mailed notice to Neighborhood Association Representatives on the attached list from the Office of Neighborhood Coordination.\*
- ☐ Mailed notice to Property Owners within 100 feet of the Subject Property.

### Information Required by [IDO §14-16-6-4\(K\)\(1\)\(a\)](#)

1. Subject Property Address\* City-wide  
Location Description \_\_\_\_\_
2. Property Owner\* City of Albuquerque
3. Agent/Applicant [if applicable] Department of Municipal Development
4. Application(s) Type\* per IDO [Table 6-1-1](#) [mark all that apply]  
☐ Zoning Map Amendment \_\_\_\_\_ (EPC or Council)  
☒ Other: Adoption or Amendment of Comprehensive Plan or Facility Plan [IDO 6-7(B)]

Summary of project/request<sup>2</sup>\*:

EPC to review and recommend City Council approval of the 2024 Bikeway and Trail Facility Plan (2024 BTFP)

<https://www.abqbikeplan.com/>

5. This application will be decided at a public hearing by\*:

☐ Environmental Planning Commission (EPC) ☒ City Council

This application will be first reviewed and recommended by:

☒ Environmental Planning Commission (EPC) ☐ Landmarks Commission (LC)

☐ Not applicable (Zoning Map Amendment – EPC only)

Hearing Date/Time\*: (EPC Hearing) 8:40 am July 18th, 2024

Location\*<sup>3</sup>: <https://cabq.zoom.us/j/2269592859> or by calling the following number: 1 301 715 8592 and entering Meeting ID: 226 959 2859

<sup>1</sup> Please mark as relevant. See [IDO Table 6-1-1](#) for notice requirements.

<sup>2</sup> Attach additional information, as needed to explain the project/request.

<sup>3</sup> Physical address or Zoom link

[Note: Items with an asterisk (\*) are required.]

Agenda/meeting materials: <http://www.cabq.gov/planning/boards-commissions>

To contact staff, email [devhelp@cabq.gov](mailto:devhelp@cabq.gov) or call the Planning Department at 505-924-3860 and select the option for “Boards, Commissions, and ZHE signs.”

6. Where more information about the project can be found\*:

Preferred project contact name: ABQ Bike Plan Update

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Online website or project page: <https://www.abqbikeplan.com/>

Attachments: \_\_\_\_\_

**Information Required for Mail/Email Notice by [IDO §14-16-6-4\(K\)\(1\)\(b\)](#):**

1. Zone Atlas Page(s)\*<sup>4</sup> n/a; City-wide
2. A Pre-submittal Neighborhood Meeting was required by [Table 6-1-1](#): ☐ Yes ☒ No  
Summary of the Pre-submittal Neighborhood Meeting, if one occurred:

---

---

---

---

[Note: The meeting report is required to be provided in the application materials.]

**Additional Information from IDO Zoning Map<sup>5</sup>:**

1. Area of Property [typically in acres] \_\_\_\_\_
2. IDO Zone District \_\_\_\_\_
3. Overlay Zone(s) [if applicable] \_\_\_\_\_
4. Center or Corridor Area [if applicable] \_\_\_\_\_
5. Current Land Use(s) [vacant, if none] \_\_\_\_\_

**NOTE:** Pursuant to [IDO §14-16-6-4\(L\)](#), property owners within 330 feet and Neighborhood Associations within 660 feet may request a post-submittal facilitated meeting up to 15 calendar days before the public hearing date. Contact the Planning Department at [devhelp@cabq.gov](mailto:devhelp@cabq.gov) or 505-924-3860 and select the option for “Boards, Commissions, and ZHE signs.”

**Integrated Development Ordinance (IDO):** <https://ido.abc-zone.com>

<sup>4</sup> Available online here: <http://data.cabq.gov/business/zoneatlas>

<sup>5</sup> Available here: <https://tinyurl.com/idozoningmap>

# Language Access Notice:

We provide free interpretation services to help you communicate with us. If you need help, you can request interpretation at any service counter in our Department, located in the Plaza Del Sol building, 600 2nd Street NW, Albuquerque, NM 87102.

## **Notificación de Acceso Lingüístico.**

Ofrecemos servicios gratuitos de interpretación para ayudarlo a comunicarse con nosotros. Si necesita ayuda, puede solicitar servicios de interpretación en cualquier mostrador de servicio de nuestro Departamento, ubicado en el edificio Plaza Del Sol, 600 2nd Street NW, Albuquerque, NM 87102.

**語言輔助通知。我們提供免費口譯服務，以幫助你與我們溝通。如果你需要幫助，你可以在我們部門的任何服務台請求口譯，服務台位於 Plaza Del Sol大樓，600 2nd Street NW，阿爾伯克基，NM 87102。**

**Thông báo về cách Tiếp cận Ngôn ngữ. Chúng tôi cung cấp các dịch vụ thông dịch miễn phí để giúp quý vị giao tiếp với chúng tôi. Nếu quý vị cần giúp đỡ, quý vị có thể yêu cầu thông dịch tại bất cứ quầy dịch vụ nào trong Sở của chúng tôi, tọa lạc tại tòa nhà Plaza Del Sol, 600 2nd Street NW, Albuquerque, NM 87102.**

**Saad Hadahwiis'a O'oolkaah bee dah na'astsooz. Nihi bik'inaasdzil t'aadoo baahilinigoo 'ata' hashne' tse'esgizii ach'i' dzaadi! Dzaadi! Danihi dahootahgoo bee nihi-. Daa' danihi bidin nishli dzaadi! Dzaadi! Danihi bineesh'a yinishkeed 'ata' hashne' -di t'aa biholniihgoo tse'esgizii ket'aaz -di nihihigii dah diikaah, -k'eh -di tsin Plaza Del Sol Kiniit'aagoo, 600 2nd Kiniit'aa NW, Albuquerque, NM 87102.**



# CITY OF ALBUQUERQUE



Timothy Keller, Mayor

June 4, 2024

Dear Neighborhood Association Representatives:

**This letter is to advise you that the City of Albuquerque's Environmental Planning Commission will hold a Hearing on the 2024 Bikeway and Trail Facilities Plan on July 18th, 2024.** You are receiving this letter because the Integrated Development Ordinance (IDO) requires notification to all Albuquerque Neighborhood Associations, pursuant to IDO Subsection 14-16-6-7(B) Adoption or Amendment of Facility Plan. Please pass this information along to your membership.

The City of Albuquerque's Department of Municipal Development is amending the 2024 Bikeway and Trail Facilities Plan (2024 BTFP), which was last adopted in 2015. Since November 2022, staff from DMD and Parks and Recreation (PRD) worked with other City Departments, City Council staff, and with advocates and community representatives to update the 2015 Bikeway and Trail Facilities Plan.

Practices for bikeway facility design have evolved significantly since the City last took a comprehensive look at its bicycling infrastructure and the needs of people who bike. The City has prioritized the safety of its most vulnerable road users through *Vision Zero*. Additionally, the City has identified sustainability goals through the *Climate Action Plan* and adopted major new policies and regulatory documents, including the *Albuquerque/Bernalillo County Comprehensive Plan*, *Development Process Manual*, the *Integrated Development Ordinance*, and *Complete Streets* policies.

The 2024 BTFP creates consistency with recently adopted plans and policies and provides a mechanism to implement goals and policies identified in the *Albuquerque/Bernalillo County Comprehensive Plan*. It focuses on the needs of underserved communities and ensures an equitable distribution of bikeways across the city. The 2024 BTFP also identifies key planning, policy, and programmatic actions that are complementary to and will enhance the proposed bikeway networks.

After three phases of public input and engagement, the most recent public comment period for the draft 2024 Bikeway and Trail Facilities Plan ended on May 31. We appreciate and thank you for all the feedback and comments!

Public Comment will also be heard at the EPC hearing at the date and time listed below. The content of this notice provides additional information related to the proposed Amendment and the hearing.

## **Environmental Planning Commission Hearing Date, Time, and Location**

**Date:** July 18<sup>th</sup>, 2024

**Time:** Hearing begins 8:40 am - see agenda for order of cases

**Location:** Via Zoom: <https://cabq.zoom.us/j/2269592859>

# CITY OF ALBUQUERQUE



Timothy Keller, Mayor

*Notice to Persons with Disabilities:* If you have a disability and require special assistance to participate in this meeting, please contact TTY at 1-800-659-8331 at least three (3) days prior to the meeting/hearing date.

Interpretation in languages other than English is available if requested at least three (3) days prior to the meeting/hearing date. Please call 505-924-3932 and be sure to note which language you are requesting if you leave a voicemail message.

Information attached to this email include:

- Public Notice of a Proposed Project in the City of Albuquerque for Policy Decisions Mailed/Emailed to a Neighborhood Association
- Official Public Notification Form for Mailed or Electronic Mail Notice

To view the EPC Hearing Agenda, visit <http://www.cabq.gov/planning/boards-commissions>.

For additional information regarding the 2024 BTFP, visit <https://www.abqbikeplan.com/>

Sincerely,

*Valerie Hermanson*

Valerie Hermanson  
Public Works Strategic Program Manager  
Department of Municipal Development  
City of Albuquerque







U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE

Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage

Postmark  
Here

Total Postage and Fees

Sent To Stephanie Gilbert 908 Alta Vista Ct - 8W  
Street and Apt. No., or PO Box No.

City, State, ZIP+4®  
Albuquerque, NM 87108

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE

Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage

Postmark  
Here

Total Postage and Fees

Sent To Elena Parkway Neighborhood Association  
Street and Apt. No., or PO Box No.  
8023 Wagonburg Ave NW  
City, State, ZIP+4®  
Albuquerque, NM 87120

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7016 2070 0000 0202 9102  
8672 2066 0000 9007 7499

**From:** [Hermanson, Valerie](#)  
**To:** [Hermanson, Valerie](#)  
**Bcc:** [board@bananm.org](#); [board@bananm.org](#); [campus.neighborhood.assoc@gmail.com](#); [campus.neighborhood.assoc@gmail.com](#); [learrael@aol.com](#); [learrael@aol.com](#); [josefree@yahoo.com](#); [josefree@yahoo.com](#); [clna87111@gmail.com](#); [clna87111@gmail.com](#); [cicm-na@comcast.net](#); [cicm-na@comcast.net](#); [alldirectors@comanchefoothills.org](#); [alldirectors@comanchefoothills.org](#); [crestviewneighbors@outlook.com](#); [crestviewneighbors@outlook.com](#); [dwmnanm@gmail.com](#); [dwmnanm@gmail.com](#); [district8coalition@gmail.com](#); [district8coalition@gmail.com](#); [erpvaabq@gmail.com](#); [erpvaabq@gmail.com](#); [tgrasmussen@msn.com](#); [tgrasmussen@msn.com](#); [elderhomesteadna@gmail.com](#); [elderhomesteadna@gmail.com](#); [ecnainabq@gmail.com](#); [ecnainabq@gmail.com](#); [abqfairwest@gmail.com](#); [abqfairwest@gmail.com](#); [fhvapres@gmail.com](#); [fhvapres@gmail.com](#); [bhaskins1@aol.com](#); [bhaskins1@aol.com](#); [ggnaabq@gmail.com](#); [ggnaabq@gmail.com](#); [hear.president@gmail.com](#); [hear.president@gmail.com](#); [hbanahighland@gmail.com](#); [hbanahighland@gmail.com](#); [zoning@albuquerqueoldtown.com](#); [zoning@albuquerqueoldtown.com](#); [hcnalert@gmail.com](#); [hcnalert@gmail.com](#); [inezneighassn@yahoo.com](#); [inezneighassn@yahoo.com](#); [johnb.robertna@comcast.net](#); [johnb.robertna@comcast.net](#); [lamesainternationaldistrict@gmail.com](#); [lamesainternationaldistrict@gmail.com](#); [lsgna67@gmail.com](#); [lsgna67@gmail.com](#); [laderawestna@gmail.com](#); [laderawestna@gmail.com](#); [laslomasNA@gmail.com](#); [laslomasNA@gmail.com](#); [lasterrazasna@yahoo.com](#); [lasterrazasna@yahoo.com](#); [laurelwoodna@gmail.com](#); [laurelwoodna@gmail.com](#); [losaltosneighborhood.abq@gmail.com](#); [losaltosneighborhood.abq@gmail.com](#); [losduranenneighborhood@gmail.com](#); [losduranenneighborhood@gmail.com](#); [losgriegosna2022@gmail.com](#); [losgriegosna2022@gmail.com](#); [mail@lospoblanosna.com](#); [mail@lospoblanosna.com](#); [matthewmeadowna@gmail.com](#); [matthewmeadowna@gmail.com](#); [mtpassociation@gmail.com](#); [mtpassociation@gmail.com](#); [mckinleyneighbor@gmail.com](#); [mckinleyneighbor@gmail.com](#); [mossmanneighborhoodassociation@gmail.com](#); [mossmanneighborhoodassociation@gmail.com](#); [nearnorthvalleyyna@gmail.com](#); [nearnorthvalleyyna@gmail.com](#); [netherwoodpark@gmail.com](#); [netherwoodpark@gmail.com](#); [theboard@nobhill-nm.com](#); [theboard@nobhill-nm.com](#); [northcampusna@gmail.com](#); [northcampusna@gmail.com](#); [near.neighborhood@gmail.com](#); [near.neighborhood@gmail.com](#); [nvcabq@gmail.com](#); [nvcabq@gmail.com](#); [president@onateneighborhood.org](#); [president@onateneighborhood.org](#); [info@osograndena.org](#); [info@osograndena.org](#); [palomaspark@gmail.com](#); [phcassoc@gmail.com](#); [phcassoc@gmail.com](#); [phnacommunications@gmail.com](#); [phnacommunications@gmail.com](#); [parkwaypoint@yahoo.com](#); [parkwaypoint@yahoo.com](#); [a.verardo@comcast.net](#); [a.verardo@comcast.net](#); [pmnaabq@gmail.com](#); [pmnaabq@gmail.com](#); [panaabq@gmail.com](#); [panaabq@gmail.com](#); [quigley.park@gmail.com](#); [quigley.park@gmail.com](#); [qna.abq@gmail.com](#); [qna.abq@gmail.com](#); [board@abqrsna.com](#); [board@abqrsna.com](#); [raynoldsneighborhood@gmail.com](#); [raynoldsneighborhood@gmail.com](#); [sbmartineztown@gmail.com](#); [sbmartineztown@gmail.com](#); [sfvna2014@gmail.com](#); [sfvna2014@gmail.com](#); [sawmillneighbor@gmail.com](#); [sawmillneighbor@gmail.com](#); [siesta2na.pres@gmail.com](#); [siesta2na.pres@gmail.com](#); [silverhillabq@gmail.com](#); [silverhillabq@gmail.com](#); [abqsana@gmail.com](#); [abqsana@gmail.com](#); [abqsbna@gmail.com](#); [abqsbna@gmail.com](#); [jasalazarnm@gmail.com](#); [jasalazarnm@gmail.com](#); [contact@slanm.org](#); [contact@slanm.org](#); [sehna.membership@gmail.com](#); [sehna.membership@gmail.com](#); [emailbrowns@aol.com](#); [emailbrowns@aol.com](#); [stnapres@outlook.com](#); [stnapres@outlook.com](#); [summitparkNA@gmail.com](#); [summitparkNA@gmail.com](#); [admin@supper-rock.org](#); [admin@supper-rock.org](#); [president@trna.org](#); [president@trna.org](#); [thecourtyardsabq@gmail.com](#); [thecourtyardsabq@gmail.com](#); [info@tresvolcanesna.org](#); [info@tresvolcanesna.org](#); [tuscanylandscape@me.com](#); [tuscanylandscape@me.com](#); [info@uhanm.org](#); [info@uhanm.org](#); [abqcorena@gmail.com](#); [abqcorena@gmail.com](#); [academyhillsparkna@gmail.com](#); [academyhillsparkna@gmail.com](#); [annapresident505@gmail.com](#); [annapresident505@gmail.com](#); [arena87111@gmail.com](#); [arena87111@gmail.com](#); [alturapark@gmail.com](#); [alturapark@gmail.com](#); [president@alvaradoneighborhood.com](#); [president@alvaradoneighborhood.com](#); [antelope.run.abq@gmail.com](#); [antelope.run.abq@gmail.com](#); [adonneighborhood@gmail.com](#); [adonneighborhood@gmail.com](#); [barelalna505@gmail.com](#); [barelalna505@gmail.com](#); [valle.prado.na@gmail.com](#); [valle.prado.na@gmail.com](#); [vdb87105@gmail.com](#); [vdb87105@gmail.com](#); [victoryhills505@gmail.com](#); [victoryhills505@gmail.com](#); [vineyardestates.na@gmail.com](#); [vineyardestates.na@gmail.com](#); [bradyklovelady@gmail.com](#); [bradyklovelady@gmail.com](#); [wellsparkna@gmail.com](#); [wellsparkna@gmail.com](#); [westmesaneighborhoodassociation@googlegroups.com](#); [westmesaneighborhoodassociation@googlegroups.com](#); [westoldtownna@gmail.com](#); [westoldtownna@gmail.com](#); [westparkna@gmail.com](#); [westparkna@gmail.com](#); [westgate9901@gmail.com](#); [westgate9901@gmail.com](#); [valevillage@comcast.net](#); [valevillage@comcast.net](#); [shirleylockyer@gmail.com](#); [tiffany.m1274@gmail.com](#); [ken@cbm-wellness.com](#); [pcandelaria@gmail.com](#); [lepo@msn.com](#); [dukecity777@yahoo.com](#); [nwaslosky@comcast.net](#); [Chipolson44@gmail.com](#); [adamjwar@hotmail.com](#); [dwehling@outlook.com](#); [arnoldtom@yahoo.com](#); [ellielw@comcast.net](#); [jgallegoswccdg@gmail.com](#); [jeanettebaca973@gmail.com](#); [wright.js@gmail.com](#); [archhero@aol.com](#); [rajackso@msn.com](#); [nspero@phs.org](#); [president@alvaradoneighborhood.com](#); [medexter49@gmail.com](#); [elissa.dente@gmail.com](#); [marybe9@gmail.com](#); [alexlrnm@comcast.net](#); [kfabiszak@sbcglobal.net](#); [willieorr1@msn.com](#); [sdring8713@gmail.com](#); [bna@seanpotter.co](#); [gcolts66@outlook.com](#); [bstone@yahoo.com](#); [patsybeck@aol.com](#); [flops2@juno.com](#); [ions82@hotmail.com](#); [calmartin93@gmail.com](#); [kenny.stansbury@gmail.com](#); [rvaughn.rv@gmail.com](#); [k2riley@msn.com](#); [learrael@aol.com](#); [gforrest47@comcast.net](#); [josefree@yahoo.com](#); [michael.alexander@altadt.com](#); [pat.duda.52@gmail.com](#); [khattler@aol.com](#); [kris042898@icloud.com](#); [martinez.renee@gmail.com](#); [boyster2018@gmail.com](#); [e.molinadodge@yahoo.com](#); [president@comanchefoothills.org](#); [vicepresident@comanchefoothills.org](#); [alotero57@gmail.com](#); [white1ink@aol.com](#); [fourseven@comcast.net](#); [mnietoshogry@gmail.com](#); [adabneymmix@gmail.com](#); [dmmarz@gmail.com](#); [susanpatcarroll@gmail.com](#); [mgriffie@noreste.org](#); [edueweke@juno.com](#); [info@willsonstudio.com](#); [m.rvankious@gmail.com](#); [mikekious@aol.com](#); [jearnoldjones70@gmail.com](#); [lamesainternationaldistrict@gmail.com](#); [nobullbob1@gmail.com](#); [eastgatewaycoalition@gmail.com](#); [dreikeja@comcast.net](#); [sylvia4quality@gmail.com](#); [1senn@sbcglobal.net](#);

robertdebra4055@gmail.com; jrsphil1@hotmail.com; verrityg@yahoo.com; tgrasmussen@msn.com; david@edoabq.com; irobertson@titan-development.com; sp-wonderwoman@comcast.net; m.ryankious@gmail.com; jhardgrave505@gmail.com; dreikeja@comcast.net; Turner.katherine@outlook.com; nick@127tech.net; fhvapres@gmail.com; herbwright@peoplepc.com; slernst@aol.com; bhaskins1@aol.com; Faith Willmott; james.levy@gmail.com; wood\_cpa@msn.com; jiwalkiw@hotmail.com; willpawl@msn.com; realtyofnewmexico@gmail.com; omdurant@yahoo.com; hallierossbach@gmail.com; reynolds@unm.edu; emh@adexec.com; president@albuquerqueoldtown.com; secretary@albuquerqueoldtown.com; austenwalsh@gmail.com; malloryabq@msn.com; padamsko@hotmail.com; smurfmom@comcast.net; debzallen@ymail.com; brenda.marks648@gmail.com; annlouisacarson@gmail.com; bsturge@gmail.com; Lynne Martin; ron Zawis@abq.com; donna.yetter3@gmail.com; yemaya@swcp.com; ericshirley@comcast.net; bluestealth93@gmail.com; suzy0910@comcast.net; larswells@yahoo.com; Richard & Carrie Lujan; andrea\_pentell@hotmail.com; bakieaikin@comcast.net; kande0@yahoo.com; dwillems2007@gmail.com; valerie4nm@live.com; 5058041113rw@gmail.com; lamesainternationaldistrict@gmail.com; kellypetre@gmail.com; lsgna67@gmail.com; slcnaibq@aol.com; heckert@swcp.com; r.griego04@comcast.net; annes@swcp.com; steidley@centurylink.net; dvoth@uark.edu; wiseolga@gmail.com; laurelwoodna@gmail.com; abroyer1@msn.com; nissapatterson@gmail.com; oronacarol@hotmail.com; jarmijo12@outlook.com; athenalaroux@yahoo.com; darlenesolis.laca@gmail.com; billherring@comcast.net; lee@lqanm.com; losgriegosna2022@gmail.com; lqna505abq@gmail.com; kboutz@gmail.com; don.newman@mac.com; nedcarla@live.com; douglascooper@hotmail.com; bardean12@comcast.net; joel.c.wooldridge@gmail.com; henryksloma@gmail.com; staborel@q.com; drakelavellfamily@gmail.com; carolamorris@aol.com; lucerowilfred@gmail.com; jesselholly@gmail.com; dmills544@gmail.com; catburns87106@gmail.com; jbd2946@hotmail.com; mbcarr92@gmail.com; jillyeagley@swcp.com; vigilm75@hotmail.com; maryasena1@gmail.com; Mr.CraigDegenhardt@gmail.com; jsabatini423@gmail.com; nearnorthvalleyyna@gmail.com; wgannon@unm.edu; saramills@comcast.net; meyster1@me.com; chrisafaith@icloud.com; uri.bassan@noreste.org; rpmartinez003@gmail.com; tdavisnm@gmail.com; maiamullen@gmail.com; judiepellegriano@gmail.com; hhowerton9379@msn.com; Aburnett505@gmail.com; MMuddpi@gmail.com; peggynorton@yahoo.com; jasalazarm@gmail.com; alexanderrahimi@yahoo.com; sharonr1492@gmail.com; nobullbob1@gmail.com; janiemc07@gmail.com; bob.mcelearney@yahoo.com; rq1dq1@gmail.com; wmarsh7@comcast.net; annwagner10@gmail.com; elizabethkayhaley@gmail.com; kym.fleck@gmail.com; phnacommunications@gmail.com; peterkalitsis@gmail.com; parkwaypoint@yahoo.com; vicepresident.phna@gmail.com; president.phna@gmail.com; a.verardo@comcast.net; inapacheco@gmail.com; debbie.a.koranyi@gmail.com; rlawlor619@gmail.com; auntiesym@msn.com; tyler.richter@gmail.com; lillog2002@yahoo.com; valarid@gmail.com; lisa.whalen@gmail.com; mo01llama@gmail.com; president@qna-abq.org; gna.abq@gmail.com; debracox62@comcast.net; aschwartz74@comcast.net; janet.manry@gmail.com; perego.mauro@gmail.com; chowski83@gmail.com; newmexmba@aol.com; tollhouse1@msn.com; djclink2@msn.com; cherquezada@yahoo.com; paulfava@gmail.com; mikekious@aol.com; john.l.jones.nm@gmail.com; lnjalopez@msn.com; salamdezia@gmail.com; jilibretto@gmail.com; joannewright1949@gmail.com; mari.kempton@gmail.com; browne.amanda.jane@gmail.com; siesta2napres@gmail.com; franchini3@gmail.com; jolsen1204@gmail.com; ja.montalbano@gmail.com; evarockstar@msn.com; Sarah Delgado; 123mbeck@gmail.com; fparmijo@gmail.com; onastine@gmail.com; nicgonzales0218@gmail.com; jasalazarm@gmail.com; debsla@swcp.com; notices@slananm.org; tmenprises1@gmail.com; tallest@gmail.com; gerulibbarri1@gmail.com; housealbchome@gmail.com; jpate@molzencorbin.com; peter belletto; pnsnswift@comcast.net; emailbrowns@aol.com; lovelypeake@comcast.net; mateo.stratton@gmail.com; stnapres@outlook.com; epchavez49@gmail.com; wqsabatini@gmail.com; aberdaber@comcast.net; joebrooks@homesinabq.com; jen.esquibel@gmail.com; Kathleen Schindler-Wright; kmotheirish@gmail.com; richard@vigliano.net; mabdowa@gmail.com; aboard111@gmail.com; rioreal@earthlink.net; jaubele1012@comcast.net; jackiecooke@comcast.net; gstone@swcp.com; laurah067@gmail.com; jwierzba@comcast.net; daniwammy@gmail.com; t0m2pat@yahoo.com; randm196@gmail.com; vistadelnorte@me.com; hlhen@comcast.net; sricdon@earthlink.net; mandy@theremedyspa.com; jlbeutler@gmail.com; valle.prado.na@gmail.com; vdb87105@gmail.com; drewjara72@gmail.com; info@willsonstudio.com; altheathernton@gmail.com; djesmeek@comcast.net; zarecki@aol.com; dproach@sandia.gov; Chris Crum; vistadelnorte@me.com; Jim Souter; Schaefer@unm.edu; bradyklovelady@gmail.com; beatfeet17@yahoo.com; madmiles@msn.com; doreenmcknightnm@gmail.com; Edwina Kiro; westmesa63@gmail.com; housealbchome@gmail.com; g.clarke45@comcast.net; rnorman@sunpinehomes.com; cealeach1@gmail.com; melvin.andrewsrn@gmail.com; mattearchuleta1@hotmail.com; navrmc6@aol.com; aboard111@gmail.com; elizabethkayhaley@gmail.com; kbbh@hotmail.com; ggarcia103@comcast.net; klove726@gmail.com; donaldlove08@comcast.net; sec.dist4@gmail.com; idalialt@gmail.com; idalialt@gmail.com; marybethorn@gmail.com; hnorfleet009@gmail.com; julieradoslovich@gmail.com; rizzierinm@gmail.com; 63aberdaber@gmail.com; mg411@q.com; tuscanylandscape@me.com; tuscanylandscape@me.com

**Subject:** Notice of EPC hearing on July 18 for 2024 Bikeway and Trail Facilities Plan  
**Date:** Tuesday, June 4, 2024 3:29:00 PM  
**Attachments:** [image001.png](#)  
[Emailed-Mailed-Notice-PolicyDecisions-PrintFill BTFP.pdf](#)  
[ONC Notifying Letter BTFP.pdf](#)  
[CABQ-Official public notice form BTFP.pdf](#)

---

Good afternoon Neighborhood Association contacts,

This email is to advise you that the City of Albuquerque's Environmental Planning Commission (EPC) will hold a Hearing on the 2024 Bikeway and Trail Facilities Plan on July 18th, 2024. Because this

request is for the adoption or amendment of a City-wide Rank II Facility Plan, we are required to notify all Neighborhood Association Representatives. Please see attached package for more detailed information. Please pass this information along to your membership.

To view the 2024 Bikeway and Trail Facilities Plan and additional information, please visit:

<https://www.abqbikeplan.com/>

Thank you,  
Valerie



**VALERIE HERMANSON**

Pronouns: she/her

Public Works Strategic Program Manager

**e** [vhermanson@cabq.gov](mailto:vhermanson@cabq.gov)

**o** 505.768.4946

[cabq.gov/dmd](http://cabq.gov/dmd)



E) PUBLIC INFORMATION MEETING REPORT



# BIKEWAY AND TRAIL FACILITIES PLAN

## Public Meeting Summary

Tuesday, May 14, 2024, 6 – 7 pm

Zoom

## Meeting Overview

The Project Team hosted a final informational meeting to answer questions and spread awareness about the public review draft of the *2024 Bikeway and Trail Facilities Plan*, which was open to public comment from April 22, 2024 through May 31, 2024. The meeting was structured as an online webinar in which members of the Project Team provided an overview presentation of the plan purpose and contents before holding a discussion and question and answer period. The meeting was recorded and posted online. A total of 14 community members attended all or part of the meeting.

Key content shared during the presentation included an overview of the plan purpose and goals, outcomes of earlier phases of public outreach, the principles behind the development of the proposed bikeway network, recommended bikeway and trail improvements, and complementary programs and policies that the City should pursue.

## Questions and Discussion

**Q: There are lots of good recommendations about new crossings and signals. Does the plan discuss improvements to traffic signals and bicycle signal detection?**

- *Those issues are not discussed in the plan and are addressed on a project by project basis. Many of the City's traffic signals require upgrades to be able to add things such as bicycle detection or leading pedestrian (or bike) intervals, which gives people biking and walking a head start to cross the street. The City is aware of the importance to improve crossings at traffic signals. Since traffic signal upgrades are costly, these types of improvements are generally addressed as part of larger transportation projects.*

**Q: Councilor Baca is working on bike lanes along Central Ave in Downtown, but I don't see those reflected in the plan.**

- *The Project Team is coordinating with Council Services on the study along Central Ave. If bike lanes emerge from that study, then the proposed bike lanes will be incorporated into the plan.*

**Q: What sort of challenges do you expect to see at the Environmental Planning Commission?**

- *The Project Team hopes to demonstrate that the plan included several rounds of public outreach and that the feedback the project team received has been incorporated into the document and plan recommendations. The Project Team also hopes to demonstrate that we tried to get creative in our outreach by attending existing community events or locations and businesses where there many community members would be. We also participated in and presented at existing community meetings. We welcome any additional comments from community members in support of the plan, letters of support, and support to increase funding for bikeway improvements.*

**Q: Have you considered Dutch-style intersections for Albuquerque streets?**

- *The City is interested in applying protected intersection treatments, but they are applied on a case-by-case basis and the plan is not this prescriptive. Depending on the intersection, right-of-way may be needed and this plan did not look at right-of-way. However, the City is aware of this treatment type and pursuing protected intersections at 2<sup>nd</sup> St and Montañó Rd.*

**Q: Has there been coordination with NMDOT on projects along I-25?**

- *The City has been in coordination with NMDOT on the I-25/Montgomery interchange and the I-25 S-Curve study. Interstates are major barriers and NMDOT has been a great partner in addressing those challenges. NMDOT representatives have presented their projects at recent GAATC meetings.*

**Comment: Historically folks would ride through Expo New Mexico, but this was closed off several years ago. A path through or around Expo New Mexico could be a low stress facility in very disenfranchised communities. This seems a gap that could fulfill a lot of the plan's goals.**

- *The plan does not recommend improvements through Expo New Mexico since it is owned by the State and would require further coordination. Expo New Mexico creates a significant gap, and we are aware of the challenges. **The project team will investigate opportunities to include this as an action item in the Implementation Chapter – for the City to coordinate with the State to identify potential connectivity solutions through Expo.***

**Q: Is there a plan for installing drinking water facilities for bicyclists?**

- *That level of detail is not addressed in this plan and is addressed by Parks and Recreation on a case-by-case basis as part of trail improvement projects.*

**Q: What are the plans for crossing the I-25 frontage roads (e.g., Martin Luther King Jr. Blvd and Gibson Blvd)? Those locations seem like good candidates for protected bike lanes.**

- *Community members are encouraged to provide those comments to NMDOT. Intersection improvements have come up as part of the Gibson interchange project, which is still early in the design phase. Interchange improvements are managed by NMDOT and are not immediately under City jurisdiction.*
- *There is a high level of regional coordination among NMDOT, Bernalillo County, and City of Albuquerque staff through regional transportation boards and committees, and separate meetings as needed.*



F) PUBLIC COMMENT



Tim Keller, Mayor

## Greater Albuquerque Active Transportation Committee (GAATC)



Jonathan R. Hollinger, Chair  
Environmental Planning Commission  
c/o City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

June 10, 2024

Dear Chair Hollinger:

The City of Albuquerque's Department of Municipal Development is amending the 2024 Bikeway and Trail Facilities Plan (2024 BTFP), which was last adopted in 2015. Since November 2022, staff from DMD and Parks and Recreation (PRD) worked across City Departments, and with advocates and community representatives, including GAATC, to update the 2015 Bikeway and Trail Facilities Plan.

Practices for bikeway facility design have evolved significantly since the City last took a comprehensive look at its bicycling infrastructure and the needs of people who bike. For example, separated (protected) bike lanes have become more commonplace in cities along with e-bikes. There is more emphasis in creating a safe, comfortable, low-stress bike network not only for recreation but also essential transportation needs.

The 2024 BTFP creates consistency with recently adopted plans and policies such as the *Vision Zero Action Plan*, the *Climate Action Plan*, and the Complete Streets Ordinance. The 2024 BTFP also provides a mechanism to implement goals and policies from the *Comprehensive Plan*. The 2024 BTFP focuses on the needs of underserved communities and ensures an equitable distribution of low-stress bikeways to serve people of all ages, abilities, and backgrounds across the city. The 2024 BTFP identifies and prioritizes low-stress on and off-street bikeway projects and locations for improved midblock crossings, which creates a roadmap and sets the city up to implement these meaningful projects through restriping or integrating them into larger transportation projects. The 2024 BTFP also identifies key planning, policy, and programmatic actions that complement and enhance the proposed bikeway networks.

Ultimately, the 2024 BTFP seeks to better accommodate the needs of people who bike today and attract a new generation of residents and visitors of all ages, abilities, and backgrounds to a form of transportation and recreation that is healthy, economical, sustainable, and fun.

The Greater Albuquerque Active Transportation Committee (GAATC) supports the 2024 Bikeway and Trail Facilities Plan amendment and respectfully encourages EPC to approve the plan and recommend plan approval to the City Council.

Sincerely,

Ryan Mast, Vice Chair  
Greater Albuquerque Active Transportation Committee

Jonathan R. Hollinger, Chair  
Environmental Planning Commission  
c/o City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

June 18, 2024

Dear Chair Hollinger:

The City of Albuquerque's Department of Municipal Development is amending the 2024 Bikeway and Trail Facilities Plan (2024 BTFP), which was last adopted in 2015. Since November 2022, staff from DMD and Parks and Recreation (PRD) worked across City Departments, and with advocates and community representatives, including GARTC representatives, to update the 2015 Bikeway and Trail Facilities Plan.

Practices for bikeway facility design have evolved significantly since the City last took a comprehensive look at its bicycling infrastructure and the needs of people who bike. For example, wider multi-use trails and enhanced mid-block crossings have become more of a focus in cities to create comfortable facilities for people walking and biking. There is more emphasis on creating a safe, comfortable, low-stress bike network (both on and off street) for recreation and transportation.

The 2024 BTFP addresses these emerging best practices by identifying and prioritizing low-stress on and off-street bikeway projects and locations for improved midblock crossings. Identifying and prioritizing projects creates a roadmap and sets the city up for success in implementing these meaningful projects to serve people of all ages, abilities, and backgrounds and people biking (and walking) for transportation and recreation. The 2024 BTFP also identifies key planning, policy, and programmatic actions that complement and enhance the proposed bikeway networks such as additional maintenance activities, data collection, and e-bikes. Lastly, the 2024 BTFP creates consistency with recently adopted plans and policies such as the *Vision Zero Action Plan*, the *Climate Action Plan*, and the Complete Streets Ordinance. The 2024 BTFP serves as a mechanism to implement goals and policies from the *ABC Comprehensive Plan*.

Ultimately, the 2024 BTFP seeks to better accommodate the needs of people who bike today and attract a new generation of residents and visitors of all ages, abilities, and backgrounds to a form of transportation and recreation that is healthy, economical, sustainable, and fun.

The Greater Albuquerque Recreational Trails Advisory Committee (GARTC) supports the 2024 Bikeway and Trail Facilities Plan amendment and respectfully encourages EPC to approve the plan and recommend plan approval to the City Council.

Sincerely,

  
Eric Sorte (Jun 18, 2024 17:49 MDT)

Eric Sorte

ACU  
Acting chair

Greater Albuquerque Recreational Trails Advisory Committee






# 2024 BTFP GARTC letter of support GARTC

Final Audit Report

2024-06-18

Created:	2024-06-18
By:	Whitney Phelan (wphelan@cabq.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAABfiHvvraSMwzolZ_tz2Ox7dO0NQdrOum

## "2024 BTFP GARTC letter of support GARTC" History

-  Document created by Whitney Phelan (wphelan@cabq.gov)  
2024-06-18 - 11:34:07 PM GMT
-  Document emailed to Eric Sorte (egsorte@gmail.com) for signature  
2024-06-18 - 11:34:11 PM GMT
-  Email viewed by Eric Sorte (egsorte@gmail.com)  
2024-06-18 - 11:48:49 PM GMT
-  Document e-signed by Eric Sorte (egsorte@gmail.com)  
Signature Date: 2024-06-18 - 11:49:28 PM GMT - Time Source: server
-  Agreement completed.  
2024-06-18 - 11:49:28 PM GMT



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Environmental Planning Commission  
c/o City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

July 18, 2024

Dear Environmental Planning Commission,

Bicycling in Albuquerque today is a tale of two cities. On the one hand, our relatively mild weather combined with our network of arroyos, multi-use trails, and bike boulevards allows for excellent and practical cycling year-round, where that infrastructure exists. On the other, our bicycle facilities—particularly our low-stress facilities—are limited and fragmented, with many destinations nominally connected by bike routes unsatisfactorily divided by uncontrolled crossings across high-speed, high-traffic roads.

The 2024 update to the city's Bikeways and Trail Facilities Plan promises to mitigate this inequity. This plan proposes a practical and ambitious roadmap for improving all Burqueños' ability to bike safely and conveniently to wherever they wish to go. In addition to the new and upgraded facilities in the proposed bike network, the plan also improves connectivity through safer road crossings, and provides a toolkit for designing effective bike boulevards and multi-use trails within our city.

Studies and personal experience repeatedly show that safety is the number one concern preventing people from cycling. We need only look at the Bosque Trail and the North Diversion Channel—the latter especially during Balloon Fiesta—to recognize that when given the opportunity to bike safely, Burqueños take it. The network and crossings envisioned in this plan will substantially increase both the total mileage of safe bikeways and the number of destinations that can be reached using safe bikeways, and in doing so enhance the utility of the existing safe bikeway network.

In recent years, Albuquerque has adopted a Vision Zero Action Plan to reduce traffic fatalities, a Complete Streets ordinance to ensure streets are designed for all Burqueños, and a Climate Action Plan to reduce our greenhouse gas emissions. Increased bicycle usage is core to the success of all these goals, as personal motor vehicle use is a primary source of air pollution in the city and the predominant cause of traffic fatalities.

We strongly support the proposed Bikeways and Trail Facility Update vision of bicycling infrastructure in Albuquerque, and encourage the EPC to approve the plan and recommend plan approval to the City Council.



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Signed,

The BikeABQ Board:

Susan Gautsch  
Cameron Frigon  
Theresa Dunn  
Steve Pilon  
Patrick Martin  
Eric Biedermann  
Leila Murrieta  
Scott Nowiki  
Keith Stubbs

Members of the Public, with supporting comments as to why this is important to them:

Virginia Borncamp (87043): My husband and I love biking in Albuquerque just as we had in Minnesota, Washington, Utah and California where we bike commuted to work and road many miles for pleasure! A big challenge here is that the many bike lanes are not connected so very difficult to plan a nice 15-30 mile ride through the city. While the Burque Trail and Diversion Channel trails are great, it gets a bit boring to ride them day after day. Thank you for all continued efforts to make our bike lanes safe and hopefully continuous!

David Fisch (87048): Cycling is green energy and needs to be safe

Jim Thomas (87048) — Free Bikes 4 kids New Mexico: I prefer riding my bike to driving. It would be great to be able to ride all over Albuquerque safely!

Tom Spross (87048): Biking facilitates better health for individuals and a better environment for society. Make it easier and safer for all.

Brad Otis (87102): Bicycling on Albuquerque streets is dangerous. Please approve this plan for our safety.

Brian Helfrich (87102): Protected bike infrastructure helps everyone (less traffic and frustration, safer roads). Bike traffic needs to be separate from vehicle traffic.

Carlos Michelen Strofer (87102): The city has added hundreds of bike lanes, especially after the adoption of VisionZero and the Complete Streets ordinance. The increase in biking has been sluggish, however. The real metric should be the increase in biking trips and biking miles, not the increase in installed lane miles. Some of these bike lanes are so unsafe (with just a few feet



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



separating you from traffic at fatal speeds) that they are not used at all by anyone on a bike. The proposed updated Biking and Trail facilities focuses on the type of improvements that will lead to increased cycling and use of these facilities. It does so by focusing on safe, low stress facilities that appeal to a wider range of the population, and by focusing on connectivity so that the system connects to places people actually want to go to. Adopting this update plan will supplement Vision Zero and Complete Streets by focusing their efforts on projects that will have the most immediate and long term impact.

John Kortz (87102): Reduce pollution

Marion Cook (87102): I am a cyclist and also a drive when I have to, so am enthusiastically in support of increasing safety for everyone on the road. I want to see more of my taxes go to making bike routes for what could be our primary transportation, not the alternative.

Scott Striegel (87102): I ride to work and I'd like to ride more places but many routes feel very unsafe!

Tamara Righettini (87102): Too many cyclist injuries and deaths occur in ABQ streets. It's very important to make our streets safer.

Thea Garrett (87102): I want so much better and safer for Albuquerque. I was an avid cyclist/commuter and have lived in communities across the US. I biked ABQ joyously throughout 2020, with significantly reduced traffic. But traffic is back in full swing and I miss feeling safe on the roads here. I would love for better, safer, more connected options so that it was an easy "yes" to hop on my bike and run errands, meet up with friends, and get to work. Right now, I get nervous and often opt to walk or drive in the absence of reliably safe options.

Trisha Elias (87102)

Dan Majewski (87104): I've been biking in Albuquerque for many years. I also frequently drive in our city. Implementing this plan will benefit all people in our city, no matter how they get around. I'm tired of seeing us on the top of the list when it comes to traffic fatalities. This plan could go a long way in increasing safety, while also increasing access for those who bike.

David Jarrett (87104)

Kara McArthur (87104): Good for the environment, good for health, good for families and community

Rhea Trotman (87104): Avid cyclist, experienced a cycling accident resulting in broken hip and collar bone last year.





## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Alec Jackson (87105): Cycling is an efficient and productive way to get around the city. Safe, dedicated bike routes enable all pathway and roadway users to transit in peace. Improved bike infrastructure helps everyone!

Eric Husman (87105): Cycling is a great way to maintain physical fitness, connect communities, reduce pollution, reduce vehicle traffic, and access other modes (train, bus). Streets that are safer for cyclists are safer for pedestrians, children, and people with disabilities. Albuquerque needs to look forward and incorporate all of these rather than propagating the failed infrastructure philosophy of the 1950s: cars, cars, cars.

Esther Fredrickson (87105): In our household we try to make every weekend a "no car weekend" and travel by bike to meet friends and go to breweries, restaurants, and grocery stores. I also bike often in Austin, TX where I work ~7 weeks a year and keep a bicycle at a friend's house to get around while I'm there. The protected bike lanes and dedicated bike signals I get to experience on my Austin commute are AMAZING. I feel much safer on those streets than I do in Abq. So many of our bike lanes are too narrow, faded, located on roads with high speed limits and start and end randomly. Abq drivers are also ranked some of the worst in the country, and lifted trucks and heavily tinted windows are the norm here. Bicyclists need some help from infrastructure to be seen!!

Kenneth Delapp (87105) — Abq Joinery: I frequently commute by bicycle, and ride for fun too. I'd like to be able to ride to more places in abq, but many destinations are basically off-limits to any one who doesn't have a death wish. I want to see serious investment in dedicated bike infrastructure: protected two-way bike lanes, pedestrian bridges over the most dangerous intersections, and good maintenance to keep people riding safely. This city's greatest flaw is it's car-centric design, and i believe part of the remedy for that is to enable its citizens to experience the city without getting into a car.

Vianeidy Pratt (87105) — Sandia National Laboratories: Safe bike paths for our kids and families

Amy Skorheim (87106): A strong and working system of infrastructure for bikes is vital to a healthy, thriving city. I am never more happy than when I can travel by bike in a safe and efficient manner. I've talked to a number of people who said they would bike more if it were safer. Anything we can do to stre

Andrew Fearnside (87106): Access! Lots of Abq citizens use bikes because motorized vehicles are out of reach financially, and public transit is slow. Health! We ride because moving is good on all levels. Helps me with depression Sx; with cardiovascular health, and more. Community! Riding a bike, I am not separated from the neighborhoods I ride through by a metal shell, as I am when driving. Riding helps me practice being a neighbor. Climate change! I may not be able to re-write the deal between Facebook and its host municipalities, but I can reduce my carbon





## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



footprint. Riding is good for the planet. Build more Zero Car pathways! Build more bike lanes! Enforce speed limits in Albuquerque! Thank you.

Eva Tipps (87106): I love biking and exploring this city and these bikeways will allow me to get around Albuquerque safely and see more of the city

Jackie Davis (87106): I bike in our city on a regular basis and would like to be able to safely get anywhere I want to go!

Jeff Tomlinson (87106) — Flock of Moons Brewing Company: As a cyclist I feel more and safer cycling routes throughout our city are an essential part of any plan to modernize our transportation systems and make them more equitable.

Jen Gaudioso (87106): I commute by bike and leave exploring the city in 2 wheels. Better infrastructure would make it so much better.

Marshall Klee (87106): Having safe biking infrastructure is incredibly important to me. When I ride my bike, I want to feel secure and confident that I'll reach my destination without any close calls or accidents. Well-designed bike lanes and traffic-calming measures make a huge difference, not just for my safety but also for my peace of mind. Knowing that my community values and invests in cycling infrastructure encourages me to bike more often, contributing to a healthier lifestyle and a cleaner environment. It's not just about convenience; it's about creating a safe, welcoming space for everyone who chooses to ride.

Martin Doviak (87106)

Milton Ospina (87106): Bike for HEALTH (mental and physical health)

Nicholas Curtright (87106): Bicycling is a fun and practical way to get around and can be done safely. A large number of roadway fatalities are preventable with thoughtful design changes. We can and must do better to protect cyclists and pedestrians. Thank you for making our city safer.

Stasia Ruskie (87106): More biking= less driving, then less road repairs needed. Saves lives, saves city money. Win-win.

Victor de Souza (87106): Improved bike infrastructure is crucial to allow more people to discover active transportation which leads to better health for the individual as well as less pollution and CO2.

Christopher Stubbs (87106): Good cycling infrastructure in Albuquerque is crucial for promoting sustainable transportation, improving public health, and enhancing overall quality of life. It ensures safe and accessible routes for cyclists, reducing the risk of accidents and encouraging



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



more people to choose biking over driving. This shift can decrease traffic congestion, lower pollution levels, and contribute to a cleaner environment. Additionally, well-designed cycling infrastructure can foster a sense of community, support local economies by increasing foot traffic to businesses, and provide equitable transportation options for all residents, regardless of income or mobility.

Barbara Titus (87107) — NM Touring Society Cycling Club: Albuquerque should be one of the top cycling cities in the US, and we can be! Cycling leads to less traffic on the road, healthy people, active families- but it needs to be safe. Please support improving cycling infrastructure.

Cail Cron (87107): ABQ is a notoriously dangerous city for bikers. After years of commuting by bike in other cities, I hardly bike here for fear of being killed. I want my friends and i to be able to navigate this beautiful place and stay alive!!

Gregory Sandoval (87107) — Sandoval Moots Architects: We must facilitate options for transportation in the City - pedestrian - bicycle - train - bus - electric rail to address needs of citizens who cannot afford to own vehicles and to stop reliance on fossil fuel vehicles for lowering CO2 emissions and stop increase of climate change.

Gregory Titus (87107)

Kirsi Gaulden (87107)

Lance Chilton (87107): I bicycle to almost everywhere in Albuquerque, to help save the environment, to get exercise, to patronize Albuquerque businesses. Having bicycled here for 50 years, I am adequately comfortable with sharing streets with Albuquerque drivers... most of the time. But those who bicycle less frequently may not feel comfortable with some of the gaps (example: Claremont at San Mateo NE). The Bikeways and Trail Facility Update a decided move in the rright direction.

Lester Gyongyosi (87107): I am a lifelong cyclist. I am also a frequent commuter. While Abq has a basic and somewhat effective network of bike friendly routes, we need to stay focused on this and continue to expand and maintain this effort to make it safer and convenient for our community to chose a bike instead of a car to get around. There are still still many dangerous and compromised areas for cyclists that need addressed. Let's stay the course and continue our path in making bicycling infrastucture in this city outstanding! Thank you.

Natasha Souther (87107)

Amos Hayes (87108): Basically, I like cycling and dislike driving. I want to be safe while I'm commuting and recreating.



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Billy Keeney (87108): Bicycling is the most environmentally friendly mode of wheeled transportation. It should be prioritized over vehicle traffic at every and any instance. In order for that to happen, cycling should be made safer and cycling paths/lanes/boulevards should have cycling prioritized over car traffic. That means more protected bike lanes, better street crossings, and better connections to public transportation.

Brent Chapman (87108): I believe that using bikes for reliable, safe, healthy transportation is a fundamental component of a healthy, more connected and more productive community.

Elsa Goossen (87108)

Emily Rees (87108)

John VanderLaan (87108): Bike infrastructure is key to the city's attractiveness to health and fitness minded folks and is great for those trying to travel to work safely without vehicles.

Jon Van Oast (87108): would love to see more and more burqueños choose to travel around our city by bicycle, especially younger members of our community. safer routes and better infrastructure will help make this a reality.

Josh Vaive (87108): Biking is such a practical and affordable form of transportation, but it can be unnecessarily dangerous in this city. My wife bikes to work every day, and I don't would do whatever it takes to make sure her commute is stress free and safe. This plan sounds like a great step forward in that direction

Kelli Howie (87108) — Penultimates Cycling:

Micah Estrada (87108): Cheaper, healthy, grounded transportation is needed for this place

Natalie Hamren (87108): People deserve access to safe bike lanes.

Neal Jones (87108): Our family (and many others) are both recreational commuter cyclists, so improving Albuquerque's cycling infrastructure is important to us for the sake of safety, convenience, and a more healthy future for our community and environment.

Paul McGuire (87108): Improving the cycling infrastructure and connectivity will lead to healthier population and a healthier environment.

Rick Compton (87108) — UNM: My E-bike and "acoustic" bikes are clean and would ride them more with this updated plan. Please support me and my family and friends.

Sage Byrne (87108): I want bike commuting to be the norm and for everyone to feel safe



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Sara Friederich (87108): I ride my e-trike almost every day on city streets!

Thomas Buchheit (87108) — Penultimates: I have a health condition, biking (moving) is a great way to slow its progression. Trails, well positioned signal light buttons greatly help me navigate around the city on a bike.

Thomas Harjo (87108): I'm a bike rider!

Alan Loo (87109): I commute on bicycle to work

Christi Bachmann (87109): Safety of riders and accessibility

David Cdebaca (87109): For the safety of my community, half the streets in my neighborhood don't even have sidewalks, with lots of fast vehicle traffic, yet people still walk around it everyday. It would benefit the quality of life here and allow better access to the nearby schools and businesses, giving people more options to do so.

David Hall (87109): I use bicycles to commute to work everyday. This update would add to my safety and would calm my family's concern for my well-being.

Tyler Jordan (87109) — Strong Towns: Safer bike infrastructure not only protects cyclists, but improves traffic, promotes healthy lifestyles, and gives people the freedom to travel without requiring a car.

Adam Schwitters (87110): I want my kids to grow up in an Albuquerque that's safe and easy for them to get around without driving.

Aimee Macpherson (87110): It's a ten min bike ride to my daughter's school. But we have to cross six lanes of traffic. This makes us drive when we would rather bike.

Alexandra Scrymgeor (87110): Avid cyclist and can't stress how important it is to have infrastructure to keep cyclists safe. Essential for the next generation.

Brenton Elisberg (87110): Additional bike infrastructure is necessary for modernizing Albuquerque, improving safety, and creating green alternatives to transport. I live less than 2 miles from UNM, Nob Hill, local gyms and grocery stores, and most of my daily destinations. I should be able to travel easily and safely in my local area without a car, and yet many streets still prioritize motor vehicles. Electric bikes and scooters are becoming more accessible and we need to encourage the use of these alternatives, but this won't happen if people don't feel safe on our streets. Make bike infrastructure a priority in ABQ!



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Codie Vilen (87110)

Diane Wesner (87110)

Drew Zampella (87110): Love cycling in this city

Eric Jantz (87110): Global warming is an existential threat to Albuquerque and the world. Planning for low/no carbon transportation that is both convenient and equitable (i.e. accessible to all, irrespective of where they live or their income) is a critical component of keeping our city livable in the decades to come. The Bikeways and Trail Facility Update is an important step toward a decarbonized, equitable transportation system for Albuquerque.

Erika Robers (87110): Currently because many of the bike routes lack connectivity with other bike routes and let off bikers into busy intersections, I don't commute by bike. With new connections, I'd definately swap out my car for biking. Please consider how important it is to make ABQ a safe, bikeable city!

Erin Smith (87110): If we are too spread out to have a walkable community, at least let's work on having bike-able community.

Gina Drysol (87110): I'd like to be able to ride my bike to work or to the store without being afraid I might die. I'm sure others feel the same.

Jane Ripple (87110): I always try to consider riding my bike to do errands, if there is not a safe continuous route I drive! Add more bike paths!

Jared McDonald (87110) — 3D Glass Solutions: This plan creates a safe and connected bike network for all Albuquerque residents, reducing traffic fatalities, air pollution, and promoting a healthy lifestyle. This aligns with our Vision Zero, Complete Streets, and Climate Action goals. Thank You!

Jessica Hejny (87110): I want to be able to bike everywhere in Albuquerque!

Nicholas Winowich (87110): I am a long time bicycle commuter and recreational rider here in Albuquerque; I've lived/bicycled here for 43 years and expect to live here the rest of my life. I fully support the proposed "Bikeways and Trail Facility Update" vision and hope it will be enthusiastically adopted by the city. In my 70s, I no longer feel comfortable mixing it up with motor vehicles and restrict my riding to lanes and trails. I expect to bicycle as long as I am able. More thru lanes and major road crossings are what I hope for and expect will allow me to get around town on my bike as I become less athletic and more timid. Thank you.



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Sean Smith (87110): Biking is an affordable environmentally friendly way to get around. It should also be safe and accessible for everyone.

Selena Otero (87110): This would help with my commute to work.

Walker Boyd (87110)

Brandi Thompson (87110) — Strong Towns ABQ: I want to have freedom from the auto, oil/gas, and climate ruining industries that are making our city hostile. I also don't want to participate in traffic. By supporting this broad bicycle plan, the City of ABQ is supporting me as a citizen to have choice. It is also building a healthier, more vibrant city for future generations! As a nurse in the ED, I have seen too many times the danger that riding bicycles in ABQ exposes. I'm tired of watching my neighbors die. By supporting this plan, the City is helping to increase safety for bicycle riders. Please support this plan!

Eric Biederman (87111)

Gerald Oakland (87111): It is important to have safe routes for cycling. New Mexico rates last in safety for both bicycles and motor vehicles in the US. Not a good look. Let's change that for our citizens and our reputation.

Guy Dahms (87111): I have commuted by bicycle to work for over 20 years. A safe and efficient bicycle infrastructure is necessary for people to commute by bicycle in lieu of cars.

Laura Biedermann (87111): I encourage the EPC and City Council to adopt this Bikeways plan. I do recommend two changes. First, signalization should give greater priority to cyclists and pedestrians. I've learned that the pedestrian signals will respond quickly (<30 sec) to cyclists/pedestrians very early in the morning (e.g. 5:30 am). But when traffic is busier, the pedestrian signals are practically ineffective, requiring cyclists/pedestrians to wait >2 minutes to cross, exposing them to danger. Please update the signalization to reduce wait times to <1 min at all times of the day. This shorter pedestrian delay will also calm traffic. Second, I strongly oppose the introduction of an "Idaho stop law" allowing cyclists to run red lights. Streets are safer when we all behave predictably. Encouraging cyclists to run red lights will result in much greater unpredictability and danger. The few cyclists I know who support the "Idaho stop law" are in the ~5% who are most comfortably riding on high-stress streets and, honestly, can easily afford any traffic fine as being comparable to the price of a new pair of lycra shorts. Please focus on making cycling safer for the 95%.

Mark Bruening (87111): Safety for our children, let alone adults

Matthew Foiles (87111)





## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Michael Lawler (87111): Little mention is made of preserving bicycle lanes for bicyclists, which will require a sustained effort by City law enforcement to ticket vehicles parked in those lanes. This most certainly will be important to and enhance safe riding experiences for Albuquerque bicyclists.

Mike Thorsoon (87111): Building a great trail system throughout the city making it one of the best and hopefully safest cities to bike in would get more people to commute to work and use a bike for more of their day to day transportation.

Reggie Clark (87111): For the reasons stated. I love cycling and wish for improved riding paths and safety

Scott West (87111): I'm a recent transplant from uber-bike-friendly Portland OR, and i am amazed at the number of quality bike lanes available here in ABQ. But even small gaps in continuity of bike corridors lead to major safety risks, and so I'm excited about the prospect of improvements to glue the lanes together as a true system!

Mara Steinkamp (87111) — The Penultimates Cycling Team: Biking is a great way to get around ABQ. It helps the environment and our physical and mental wellbeing. We should make it easier for everyone to enjoy biking!

Allyn Harad (87112): I bike several times per week, either commuting to work or getting a good workout. I am very careful of how I ride looking into the driver's eyes at a traffic light and not running red lights even if there is not any cross traffic for miles. There are times I have come across limited safe crossing yet driver's seem aware of me, because I check them out by looking at them directly into their eyes. I am not sure how to mitigate cars who seem to run us off the road. They drive in the bike lane OR really close to us. As if we are a nuisance? Or they just have to make a point of their personal anger? thank you

Amy Fidel (87112) — Westside Wanderers: As a cyclist I would love to see more and safer bike paths and bike lanes in our city. There are some instances with our current structures where bike lanes just randomly end, giving cyclists no choice but to ride in a traffic lane, which is not a safe option. With more structure, there would also be less frustrated motorists in sharing the road with cyclists.

Benjamin Shultz (87112): Creating a bikeable environment helps create better access to the city without a car!

Jon McCorkell (87112) — NM Touring Society: If people feel they are riding in a safe environment, they are more likely to choose a bike to get them to their destination.



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Stephen Othling (87113): I am an avid bike rider. We need better paths, infrastructure and legislation to support bike safety

Chelsi Wieland (87114): I love cycling! My husband and I very much enjoy the road cycling around this lovely city, but are often hampered by incomplete routes. Implementing the type of road friendly cycling so common in Colorado would enhance this city so much and make it that much easier to share with friends or attract new residents! Please consider this plan.

David Chapman (87114): Bicycling is a great way to get places and is environmentally friendly and is good for health.

Karen Ann Smith (87114): Bicycling is a fun and enjoyable recreational activity. In addition, every errand or trip done by bike means one less car/truck on the road. This decreases congestion for every road user. There is no downside to improving bicycling access and routes.

Artie Davidson (87120) — West Side Wanderers: Safe access to trails and roads for road bikes, and updating of Bosque bike path and maintenance of cracks on the the surface of the Bosque bike path. I DON'T think E-bikes should be allowed on the Bosque bike path!!! They go way to fast and put road bikes and walking pedestrians in danger.

Bryan Dombrowski (87120): Albuquerque is the deadliest city for cyclists and pedestrians (per capita) our citizens deserve better. They all deserve to get home alive and safe - regardless of their mode of transportation.

Carmen Inigo (87120): This important because biking on street is getting much more risky

Jim Brewster (87120): There are too many cars and roads, and not enough bike paths. If people had more safe bike paths to use, more would ride their bikes instead of driving their cars. Thus, existing roads would be safer (fewer cars) with the addition of more safe bike paths and routes. This would be a win for everyone.

Patricia Elliot (87120): Biking is a great recreational activity for both adults and families. In addition, it can be beneficial to tourism as the biking community on the US continue to expand and look for more places to ride safely.

Susan Brewster (87120): I have been biking around Albuquerque as my main transportation method for 13 years. In that time cars have grown to be monstrous, 4 of 5 drivers are regularly distracted and "rush hour" is all times of day. Now, I am less safe on my bike (or in my car or on foot!) then ever just trying to get to my destination. It behooves all Albuquerque, on many levels, to encourage alternatives to owning and operating a car/truck but lack of safe infrastructure is what keeps most interested cyclists (and pedestrians) stuck in their cars. This is not even considering the 1/3 of people who cannot drive a car for some reason. A relatively small





## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



investment in safe bike infrastructure relative to car infrastructure, creates real options to car ownership/operation. When you create a safe bike environment on roads, you make it safer for everyone regardless of transportation mode (car, foot, bus, bike).

Tobin Oruch (87120): Bicycling is much more common in cities where people want to live or vacation, and improved infrastructure is key to that. Please support this plan for everyone's benefit -- safety, environment, health, the local economy!

Derick Castillo (87121): Transportation should be safe for everyone regardless of the mode of transportation they choose. Cycling is healthier, cleaner, and nearly as fast as travel by passenger car.

Charlie Otto (87122): I am very much in support of the Bikeways plan for the safety of cyclists, which will increase number cycling in our city, for the physical and mental health benefit of the cyclists, reducing traffic on our city streets, and the environment by reducing pollution and CO2 emissions.

Kent Hootman (87122): Bicycling is good for health and for the environment when used as a means for commuting. Many people avoid cycling in Albuquerque because of dangerous traffic routes. If we can make it safer, more people will participate.

Rochelle Larson (87122): There are many cyclists choosing to ride to work and ride for enjoyment. Traveling through the City isn't always enjoyable but any effort toward improvement will go a long way.

Abby Winowich Garrett (87123): So I can bike safely with my family !

Jack Cheney (87123)

Michaél Zbrozek (87123): I have commuted by bicycle and by foot in Albuquerque since moving here in 2014. Commuting by bicycle adds joy to my life and keeps me fit and healthy. However, when attempting to encourage others to join, they are quick to cite safety concerns. This plan, when implemented, will be a great step forward in creating safer streets for everyone, and may also increase the efficiency and timeliness of commutes by reducing the mileage required to find safe routes and avoid dangerous intersections. Please consider supporting this plan, and take steps to make Albuquerque, safer, quieter and more accessible for everyone. Let's be a leader!

Nathan Murray (87123)

Walter Kruse (87123): With electric powered bicycles becoming more accessible and affordable, cycling is becoming a more practical method of getting around the city. However, it's hard to



## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
[info@bikeabq.org](mailto:info@bikeabq.org)



ignore the safety concerns. More and better cycling infrastructure will keep Albuquerque moving in the right direction.

Del Duncan (87144): I've cycled the Albq area for many years and would love to see a more complete and safe network

Steve Dietzel (87144)

Tom Holley (87222): Bicycling is both good for us and good for our planet. We need safe and accessible bike paths for anyone riding to make their bicycle their zero emission transportation

Carl Koop: This plan takes a major step in improving bicycling safety in the Duke City and also helps to eliminate more traffic!

Dennis Dinger



Jonathan R. Hollinger, Chair  
Environmental Planning Commission  
c/o City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

**Active Living Partners:**

- International District Healthy Communities Coalition (IDHCC)
- Health Equity Council (HEC)
- Presbyterian Community Health (PCH)
- Groundwork Studio
- UNM Prevention Research Center (UNM PRC)

**Healthy Here** represents a collective effort to improve the health of Hispanic/Latino and American Indian communities in the South Valley and International District. Healthy Here is funded (in part) through the Centers for Disease Control and Prevention through the Racial and Ethnic Approaches to Community Health (REACH) initiative. The views expressed in these comments do not, necessarily, reflect the official policies of the Department of Health and Human Services.



June 26, 2024

Chair Hollinger:

The City of Albuquerque's Department of Municipal Development is amending the 2024 Bikeway and Trail Facilities Plan (2024 BTFP), which was last adopted in 2015. Since November 2022, staff from DMD and Parks and Recreation (PRD) worked across City Departments, and with advocates and community representatives. A few Active Living Workgroup members served on the Stakeholder Advisory Committee that helped to steer the creation of this plan.

Practices for bikeway facility design have evolved significantly since the City last took a comprehensive look at its bicycling infrastructure and the needs of people who bike. For example, separated (protected) bike lanes have become more commonplace in cities along with e-bikes. There is more emphasis on creating a safe, comfortable, low-stress bike network for recreation and active transportation. Access to low-stress bikeways has many implications for not only public health and opportunities to meet the CDC's recommended 150 minutes of activities each week but also environmental, community, safety, access to everyday needs, and economic.

The 2024 BTFP creates consistency with recently adopted plans and policies such as the Vision Zero Action Plan, the Climate Action Plan, and the Complete Streets Ordinance. The 2024 BTFP also provides a mechanism to implement goals and policies from the Comprehensive Plan. The 2024 BTFP centers the needs of underserved communities and ensures an equitable distribution of low-stress bikeways to serve people of all ages, abilities, and backgrounds across the city – prioritizing projects in areas that do not have existing low-stress bikeways and midblock crossings such as the International District. The 2024 BTFP creates a roadmap and sets the city up to implement these meaningful projects through restriping or integrating them into larger transportation projects. The 2024 BTFP also identifies key planning, policy, and programmatic actions that complement and enhance the proposed bikeway networks.

Ultimately, the 2024 BTFP seeks to better accommodate the needs of people who bike today and attract a new generation of residents and visitors of all ages, abilities, and backgrounds to a form of transportation and recreation that is healthy, economical, sustainable, and fun.

The Active Living Workgroup supports the 2024 Bikeway and Trail Facilities Plan amendment and respectfully encourages EPC to approve the plan and recommend plan approval to the City Council.

Sincerely,

*Healthy Here's Active Living Workgroup*





## BikeABQ

P.O. Box 4119  
Albuquerque, NM 87196-4119  
info@bikeabq.org



Jonathan R. Hollinger, Chair  
Environmental Planning Commission  
c/o City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

July 18, 2024

Dear Chair Hollinger,

I am writing on behalf of BikeABQ in support of both the adoption and implementation of the Bikeways and Trail Facilities Plan 2024 Update. This plan proposes a practical and ambitious roadmap for improving all Burqueños' ability to bike safely and conveniently to wherever they wish to go. In addition to the new and upgraded facilities in the proposed bike network, the plan also improves connectivity through safer road crossings, and provides a toolkit for designing effective bike boulevards and multi-use trails within our city.

Studies and personal experience repeatedly show that safety is the number one concern preventing people from cycling. We need only look at the Bosque Trail and the North Diversion Channel—the latter especially during Balloon Fiesta—to recognize that when given the opportunity to bike safely, Burqueños take it. The network and crossings envisioned in this plan will substantially increase both the total mileage of safe bikeways and the number of destinations that can be reached using safe bikeways, and in doing so enhance the utility of the existing safe bikeway network.

In recent years, Albuquerque has adopted a Vision Zero Action Plan to reduce traffic fatalities, a Complete Streets ordinance to ensure streets are designed for all Burqueños, and a Climate Action Plan to reduce our greenhouse gas emissions. Increased bicycle usage is core to the success of all these goals, as personal motor vehicle use is a primary source of air pollution in the city and the predominant cause of traffic fatalities.

BikeABQ is a 501(c)3 nonprofit that has a mission to make bicycling in Albuquerque a safe, enjoyable, and convenient mobility option for all. For 25 years, we have been engaging residents through activities, programs, and education. We strongly support the proposed Bikeways and Trail Facility Update vision of bicycling infrastructure in Albuquerque, and encourage the EPC to approve the plan and recommend plan approval to the City Council, and moreover encourage the City to take strong efforts to provide the funding and staffing to ensure its implementation and maintenance.



## **BikeABQ**

P.O. Box 4119  
Albuquerque, NM 87196-4119  
[info@bikeabq.org](mailto:info@bikeabq.org)



Sincerely,

Susan Gautsch

President, BikeABQ

G) PROPOSED 2024 BIKEWAY & TRAIL FACILITIES PLAN





# CITY OF ALBUQUERQUE

# 2024 Bikeway and Trail Facilities Plan





# Acknowledgments

## City of Albuquerque

- Timothy Keller, Mayor
- Samantha Sengel, Chief Administrative Officer
- Patrick Montoya, Chief Operating Officer

## City Council

- District 1 – Louie Sanchez
- District 2 – Joaquín Baca
- District 3 – Klarissa Peña
- District 4 – Brook Bassan
- District 5 – Dan Lewis, Council President
- District 6 – Nichole Rogers
- District 7 – Tammy Fiebelkorn
- District 8 – Dan Champine
- District 9 – Renée Grout, Vice President

## Environmental Planning Commission

- Council District 1 – Daniel Aragon
- Council District 2 – Adrian Carver
- Council District 3 – Joseph Cruz
- Council District 4 – Jarrod Likar
- Council District 5 – Giovanni Coppola
- Council District 6 – Gary Eyster, P.E. (Ret.), Vice-Chair
- Council District 7 – Renn Halstead
- Council District 8 – Timothy J. MacEachen
- Council District 9 – Jonathan R. Hollinger, Chair

## Department of Municipal Development

- Jennifer Turner, Director, 2024
- Patrick Montoya, Director, 2023

## Parks and Recreation

- Dave Simon, Director, 2024

## Greater Albuquerque Active Transportation Committee (GAATC)

- Aaron Hill, Chair, 2024
- Ryan Mast, Vice Chair, 2024
- Alex Applegate, 2024
- Dr. Naomi George, 2024
- Josiah Hooten, 2024
- Lanny Toning, 2024
- Richard Meadows, 2023
- In memory of Dan Jensen, former chair

## Greater Albuquerque Recreational Trails Committee (GARTC)

- Maggie Ramirez, 2024
- Cathy Inteman, 2024
- Melanie Buchanan Farmer, 2023
- Cameron Frigon, 2023
- Jay Flowers, 2023

## Technical Working Group Participants

- Carrie Barkhurst, ABQ RIDE
- Hally Bert, City of Albuquerque (CoA) Planning Department
- Tim Brown, PE, PTOE, CoA Department of Municipal Development
- Tara Cok, Mid-Region Council of Governments
- Matthew Cox, AICP, CoA City Council Services
- Bridgette Garrett, CoA, Department of Municipal Development
- Hugh Hulse, CoA Parks and Recreation Department, Esperanza Bicycle Safety Education Center
- Albert Lee, CoA Sustainability Office
- Julie Luna, Bernalillo County Public Works
- Joel Mahoney, CoA Department of Senior Affairs
- Richard Meadows, AICP Bernalillo County Public Works
- Eric Michalski, PE, CoA Department of Municipal Development
- Whitney Phelan, CoA Parks and Recreation Department
- Shanna Schultz, CoA City Council Services (formerly), Mayor's Office (current)
- Cheryl Somerfeldt, CoA Parks and Recreation Department
- Willy Simon, Mid-Region Council of Governments
- Seth Tinkle, CoA Planning Department

## Stakeholder Advisory Committee Participants

- Shawn Arruti, UNM, Parking & Transportation Services
- Katrina Arndt, AICP, BikeABQ (formerly)
- Cordell Bock, Albuquerque Public Schools Vision Zero
- Jennifer Buntz, Duke City Wheelmen
- Baruch Campos-Gallardo, Together 4 Brothers
- Luis Colunga, Together 4 Brothers
- Rosie Dudley, UNM University Planner
- Tatiana Falcón Rodríguez, Presbyterian Healthcare Services, Co-Director of ABQ CiQlovía
- Jay Flowers, GARTC member
- Scot Key, Advocate, former GAATC member
- Dan Majewski, Advocate, former chair of GAATC
- Patrick Martin, TAB member
- Ryan Mast, GAATC member
- Barbara Morck, UNM, Parking & Transportation Services
- Rikk Murphy, TAB member
- Kian Nydle, Presbyterian Healthcare Services
- Steve Pilon, BikeABQ
- Terra Reed, Advocate
- Jamie Schwebach, Advocate, Bike to Wherever Day working group member
- Maurice Williams, Jr., UNM/NMDOT Traffic Safety Partnership/Look for Me Program
- Sarah Young, Albuquerque Public Schools

## Parks and Recreation Department Staff

- Whitney Phelan
- Cheryl Somerfeldt

## Planning Department Staff

- Judith Gray
- Robert Messenger

## Department of Municipal Development Staff

- James Foty
- Valerie Hermanson, AICP

## Consultant Team

- Toole Design Group
- WSP

*Thank you to the hundreds of community members that participated in the 2024 Bikeway and Trail Facilities Plan Update process by attending community meetings, completing surveys, and visiting with the Project Team at pop-up events.*

# Table of Contents

## **Introduction and Plan Overview .....8**

What is the 2024 Bikeway & Trail Facilities Plan? .....	9
A Strong Foundation for Bicycling in Albuquerque.....	10
Applying Emerging Approaches and Best Practices to Bikeway Facility Selection and Network Development .....	13
What is (and is Not) Included in the 2024 Plan? .....	16
Vision Statement and Goals .....	21
Vision Statement .....	21
Goals and Priorities.....	21

## **Existing Conditions and Programs.....24**

Overview .....	25
Key Policy Priorities and Programs .....	25
Existing Bikeway and Trail Facilities.....	34
Other Multi-Use Trails.....	36
How Well Does the Bikeway Network Meet the Needs of Albuquerque Community Members Today? .....	37

## **Community and Stakeholder Outreach .....42**

Overview .....	43
Key Takeaways .....	44
Phases of Outreach.....	45
Public Engagement Strategies .....	46

## **Facility Types: Definitions and Considerations .....52**

Bike Boulevard.....	55
Enhanced Bike Route.....	56

Bike Lanes.....	57
Buffered Bike Lanes .....	58
Separated Bike Lanes.....	59
Paved Multi-Use Trails.....	60
Sidepaths .....	61
Raised Bike Lanes .....	62
Two-Way Cycle Track .....	62
Unpaved Trails.....	63

## **Proposed Bikeways and Trails Network.....64**

Chapter Overview .....	65
Components of the Proposed Bikeways and Trails Network .....	65
Bikeway Network Development Process .....	72
Bikeway Improvement Strategies .....	79

## **Implementation and Recommendations .....94**

Chapter Overview.....	95
Project Prioritization .....	95
Potential Implementation Timeframes .....	102
Means of Implementation.....	103
Planning, Policy, and Programmatic Recommendations .....	105
Programmatic Recommendations .....	117
Funding .....	125

## **Acronyms and Definitions.....138**

Acronyms .....	139
Definitions .....	140

# List of Figures

<b>Figure 1</b>	<b>Three Types of Bicyclists.....</b>	<b>13</b>	<b>Figure 15</b>	<b>Bikeway Network Development Process Flow Chart .....</b>	<b>72</b>
<b>Figure 2</b>	<b>Bikeway and Trail Facilities Plan Study Area .....</b>	<b>18</b>	<b>Figure 16</b>	<b>Streets in Albuquerque Where Separated Bikeways and Buffered Bike Lanes Would be Required to Meet Best Practices in Facility Design .....</b>	<b>75</b>
<b>Figure 3</b>	<b>Proposed Segments for Albuquerque Rail Trail .....</b>	<b>28</b>	<b>Figure 17</b>	<b>Locations Where Uncertainty Over Right-of-Way Limits Near-Term Implementation of Bikeway Projects (Shaded Area) .....</b>	<b>76</b>
<b>Figure 4</b>	<b>Existing Bikeways and Trails .....</b>	<b>34</b>	<b>Figure 18</b>	<b>Existing Buffered Bike Lanes (Top) and Option for Separated Bike Lanes (Bottom).....</b>	<b>84</b>
<b>Figure 5</b>	<b>Current LTS Levels of all Albuquerque Streets .....</b>	<b>37</b>	<b>Figure 19</b>	<b>Transitioning from Bike Routes to Bike Boulevards.....</b>	<b>88</b>
<b>Figure 6</b>	<b>LTS Levels along Existing Bikeways.....</b>	<b>38</b>	<b>Figure 20</b>	<b>Projects in the 2024 Plan by Prioritization Score.....</b>	<b>98</b>
<b>Figure 7</b>	<b>Vulnerability Index and Existing Low-Stress Bikeways.....</b>	<b>40</b>			
<b>Figure 8</b>	<b>Bicycle Network Analysis Results .....</b>	<b>41</b>			
<b>Figure 9</b>	<b>Public and Stakeholder Outreach Infographic .....</b>	<b>43</b>			
<b>Figure 10</b>	<b>Destinations People Would Like to Bike To, Bike to Wherever Day Survey .....</b>	<b>50</b>			
<b>Figure 11</b>	<b>Preferred Bikeway Facility Type Based on Roadway Speed and Volume .....</b>	<b>54</b>			
<b>Figure 12</b>	<b>Proposed On-Street Bikeway and Paved Multi-Use Trail Network</b>	<b>67</b>			
<b>Figure 13</b>	<b>Proposed Enhanced Crossings along Bike Boulevards and Paved Multi-use Trails .....</b>	<b>69</b>			
<b>Figure 14</b>	<b>Existing and Proposed Network Spines .....</b>	<b>70</b>			

# List of Tables

<b>Table 1</b>	<b>Key Components of the 2024 Plan and Differences from the 2015 Plan .....</b>	<b>17</b>	<b>Table 13</b>	<b>Bikeway Improvement Strategies Summary Table .....</b>	<b>80</b>
<b>Table 2</b>	<b>Bikeway Enhancements Completed Through the Annual Complete Streets Maintenance Program, 2021-2023 .....</b>	<b>27</b>	<b>Table 14</b>	<b>Guidelines for the Appropriateness of Road Diets on Albuquerque Roads .....</b>	<b>82</b>
<b>Table 3</b>	<b>Applicability of Relevant Plans and Policies and Opportunities for Further Progress .....</b>	<b>29</b>	<b>Table 15</b>	<b>Minimum Widths by Street Element (Project Identification Purposes) .....</b>	<b>82</b>
<b>Table 4</b>	<b>Definitions of On-Street Bikeway and Paved Trail Facility Types and Current Mileage .....</b>	<b>35</b>	<b>Table 16</b>	<b>Enhanced Crossing Types and Applications .....</b>	<b>86</b>
<b>Table 5</b>	<b>Phases of Public Outreach .....</b>	<b>45</b>	<b>Table 17</b>	<b>Evaluation Criteria Categories and Purpose .....</b>	<b>96</b>
<b>Table 6</b>	<b>Composition of the Technical Working Group and Stakeholder Advisory Committee .....</b>	<b>47</b>	<b>Table 18</b>	<b>Bikeway Evaluation Process Criteria Summary Table .....</b>	<b>97</b>
<b>Table 7</b>	<b>Boards and Committees Involved in Plan Outreach Efforts .....</b>	<b>48</b>	<b>Table 19</b>	<b>Highest Priority Projects from the 2024 Plan .....</b>	<b>99</b>
<b>Table 8</b>	<b>Components of the Proposed Bikeways and Trails Network .....</b>	<b>66</b>	<b>Table 20</b>	<b>Summary of Means of Implementation for Bikeway and Trail Projects Led by the City of Albuquerque .....</b>	<b>103</b>
<b>Table 9</b>	<b>Mileage of New or Enhanced Bikeways by Facility Type .....</b>	<b>66</b>	<b>Table 21</b>	<b>Categories of 2024 Plan Recommendations .....</b>	<b>105</b>
<b>Table 10</b>	<b>Enhanced Crossings by Type along Paved Multi-Use Trails and Bike Boulevards .....</b>	<b>68</b>	<b>Table 22</b>	<b>Standard E-bike Classes and Definitions .....</b>	<b>114</b>
<b>Table 11</b>	<b>Connection Between 2024 Plan Goals and Bikeway Network Design Principles .....</b>	<b>73</b>	<b>Table 23</b>	<b>Recommendations from the League of American Bicyclists (2020) and Progress to Date .....</b>	<b>118</b>
<b>Table 12</b>	<b>Components of Projects Proposed in the 2024 Plan .....</b>	<b>78</b>	<b>Table 24</b>	<b>Summary of Planning, Policy, and Programmatic Recommendations .....</b>	<b>127</b>





# 1. Introduction and Plan Overview

# What is the 2024 Bikeway & Trail Facilities Plan?

Albuquerque boasts many on and off-street biking facilities for both transportation and recreation, yet there are significant barriers and safety concerns that limit the number of people who are willing to travel by bicycle. It has been nearly a decade since the City took a comprehensive look at its bicycling infrastructure and the needs of people who bike. In that span of time, practices for bike-way facility design have evolved significantly, and the City has prioritized reversing the rise in traffic fatalities and addressing the safety of its most vulnerable road users. Since the previous plan was last updated in 2015, the City has also adopted major new policies and regulatory documents, including the *Comprehensive Plan, Development Process Manual*, and the *Integrated Development Ordinance*.

The 2024 *Bikeway and Trail Facilities Plan* (2024 Plan) aligns with these recently adopted plans and policies and presents an opportunity to center the needs of historically underserved communities and ensure an equitable distribution of bikeways across the city. The 2024 Plan also identifies critical improvements that can make bicycling across the City of Albuquerque safer, more comfortable, and accessible to more people while

establishing a clear vision for how to prioritize and implement proposed projects.

The 2024 Plan focuses on projects that are plausible in the near term—pending available funding and staff resources—and provides a road map for the City to build out a dense network of high-comfort facilities that connects to everyday destinations. Recommendations

include an array of bikeway facilities and crossing treatments that create useful and comfortable connections and encourage more people to choose bicycling as a mode of transportation, creating a virtuous cycle where drivers become more cognizant of bicyclists and safety increases.

## Plan Background

In 2015, the City of Albuquerque adopted the *Bikeways and Trails Facility Plan*, which combined and updated the City's two bicycle and trail plans – the *Trails and Bikeways Facility Plan* (1993), and the *Comprehensive On-Street Bicycle Plan* (2000). By combining these two plans, the City was able to better manage the growth of on-street bikeways and multi-use trails and promote a well-connected, and safer non-motorized transportation system. The 2015 Plan recommended regular updates to address the evolving challenges and opportunities related to walking and biking.

While some of the 2015 Plan text will remain and is still relevant, the 2024 Plan identifies targeted updates to reflect emerging best practices in planning for and implementing a bikeway and trail system that can support both transportation and recreational

bicycling activities. The 2024 Plan focuses specifically on City-led improvements to **on-street bikeways**, including bike boulevards and various forms of bike lanes, and **paved multi-use trails**, with an emphasis on enhanced crossings where trails intersect with major roads.

## An Update to the City's Rank II Plan

The City of Albuquerque uses a system of ranked plans, starting with the Rank I *Comprehensive Plan*, which sets a vision, goals, and overall policies. Lower-ranked plans must comply with the intent, policies, and goals of the higher-ranked plans. The 2024 Plan is a Rank II Facility Plan and serves as a policy document that provides direction for the City's infrastructure investments and is a mechanism for implementing the *Comprehensive Plan*.





*Ultimately, the 2024 Plan seeks to better accommodate the needs of people who bike today and attract a new generation of residents and visitors of all ages, abilities, and backgrounds to a form of transportation and recreation that is healthy, economical, sustainable, and fun.*

## Recent Accomplishments

Between 2021 and 2022, the City installed four pedestrian hybrid beacons (PHBs), with eight additional PHBs or rectangular rapid flashing beacons (RRFBs) currently being designed.

Between 2021 and 2023, the City installed over 9 miles of bike lanes and 17.3 miles of buffered bike lanes through the Annual Complete Streets Maintenance Program.

In Fall 2023, the City completed a 1.7-mile portion of the multi-jurisdictional Alameda Drain Trail from Fourth Street to Montañó Blvd.

## A Strong Foundation for Bicycling in Albuquerque

The 2024 Plan builds upon expansive networks of on-street bikeways and paved multi-use trails, policies that support safety and increasing rates of bicycling, and a strong culture of bicycling and outdoor recreation around the City of Albuquerque.

**Quality Infrastructure:** Albuquerque is particularly notable for its network of paved multi-use trails, including the Paseo del Bosque Trail and the North Diversion Channel Trail, which offer both long-distance spines for everyday transportation purposes and high-quality recreational amenities.

Over time, the City has expanded the network of on-street bikeways through direct investments and innovative techniques for implementing projects. Particularly noteworthy is the Annual Complete Streets Maintenance Program, which incorporates Complete Streets design principles during annual repaving and restriping efforts and resulted in 16.5 miles of new or enhanced bikeways in 2023 alone.

The city also features an emerging network of bike boulevards—neighborhood streets that include traffic calming to slow motor vehicles, discourage through-vehicle traffic, and provide enhanced crossings at major intersections.

Other key investments include numerous sidepaths—multi-use trails at sidewalk level—across the western portion of the city as part of larger roadway improvement projects.

Existing bikeways and trails are complemented by major planned infrastructure investments, including the Rail Trail, an eight-mile loop and signature urban trail that will connect various regional destinations and activity centers in the greater downtown area, including the Paseo del Bosque Trail, and the Alameda Drain Trail, a partially constructed paved multi-use trail - with further design and construction ongoing - which will ultimately run nine miles north-south from I-40 to the northern end of 2nd Street.



*The City of Albuquerque was named a silver-level Bicycle Friendly Community by the League of American Bicyclists in 2020, an upgrade from bronze status.*







*The Bosque Trail was recognized in 2023 by Travel & Leisure magazine as one of the best urban bike trails in the United States.*





**Policy Support:** Over the last five years, the City of Albuquerque has passed various policies that support the adoption of active modes of travel and increase the safety and quality of facilities for people walking and biking. The 2024 Plan is an opportunity to create consistency among recently approved plans and policies. Key initiatives include:

- The **Vision Zero Action Plan**, through which the City aspires to eliminate traffic fatalities by 2040.
- The **Climate Action Plan**, which identifies GHG emissions reduction strategies including greater use of and investments in alternative modes.
- The **Complete Streets Ordinance**, which codifies an emphasis on the needs of bicyclists and pedestrians during street design.
- The **City of Albuquerque-Bernalillo County Comprehensive Plan** and the long-range **Mid-Region Metropolitan Planning Organization (MRMPO) before Metropolitan Transportation Plan**, developed by the Mid-Region Metropolitan Planning Organization, both emphasize investing in a wider range of transportation options and development patterns that reduce the distances needed to access destinations.
- Policy priorities from the Comprehensive Plan have been integrated into the

**Development Process Manual**, the City's infrastructure design standards document.

See **Chapter 2: Existing Conditions and Programs** for a complete list relevant plans and policies and **Appendix A: Planning & Policy Framework** for a comprehensive summary of these documents.

**Culture of Bicycling and Outdoor Recreation:** Participants in the plan development process highlighted the culture around bicycling as a reason for optimism. Pleasant weather means that bicycling is an option year-round, and various community groups and organizations play an integral role in supporting bicycling by advocating for improved bikeways and bicycle-friendly policies and hosting bicycling-related events and programs. Notable community-driven events that encourage people to ride include the CiQlovía open streets festival and the annual Halloween-themed Day of the Tread. The City oversees Bike to Wherever Day each May and Bike thru Burque Week each October and supports community programs through the Esperanza Bicycle Safety Education Center, which provides trainings and free tune-ups for Albuquerque residents.

## A Commitment to Saving Lives

Albuquerque features some of the highest pedestrian and overall traffic fatality rates in the U.S. Safety is a critical issue for people bicycling as well; between 2016 and 2020, 14 people died while biking on Albuquerque roads, and over 700 people suffered traffic-related injuries while biking. Many of these severe and fatal crashes occurred on lower-comfort bicycle facilities—including streets with bike lanes—that coincide with the City's High Fatal and Injury Network (HFIN).

The City of Albuquerque is committed to Vision Zero and actively working to eliminate traffic deaths and serious injuries through a variety of strategies, including creating connected, quality bike infrastructure that increases the level of comfort and safety for all riders. Updating the Bikeway and Trail Facilities Plan is an important step toward this goal.



# Applying Emerging Approaches and Best Practices to Bikeway Facility Selection and Network Development

Creating safe places for people to bike and increasing the number of people who choose to bike as an everyday form of transportation requires an understanding of the needs of a wide range of potential users, the application of best practices in street design, and creative means of implementation so that the impacts of bikeway investments can be felt sooner rather than later.

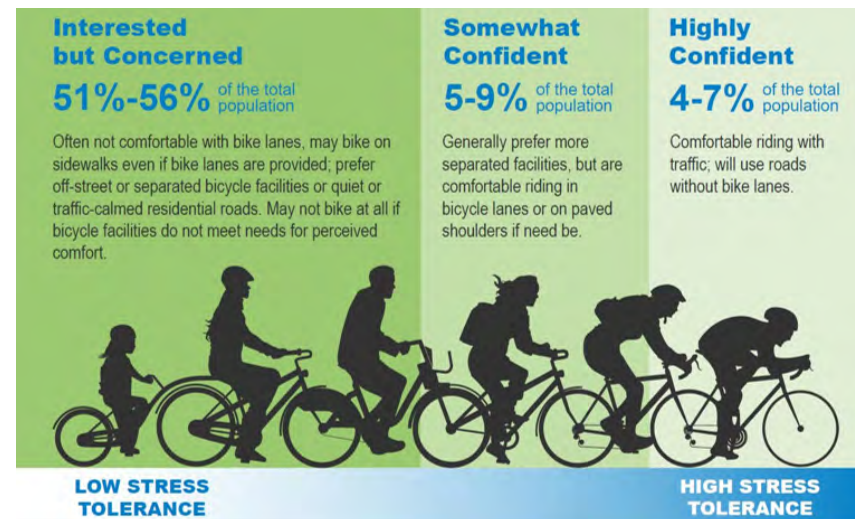


Figure 1. Three Types of Bicyclists

## Addressing the Needs of Bicyclists of All Ages, Abilities, and Backgrounds

The City of Albuquerque is committed to providing quality transportation options for all community members and for users of all modes. The 2024 Plan strives to consider the needs for different user types and to make each trip as safe, comfortable, and efficient as possible by providing a connected network of low-stress, high-comfort on- and off-street options for people of all ages, abilities, and backgrounds. The 2024 Plan also intends to prioritize bikeway investments in areas that have not had their fair share of investment in the past.

## Bicyclist User Types

National surveys indicate that two-thirds of the population are interested in riding a bicycle, even if they don't do so today. These existing and prospective bicyclists can be categorized into three general user types (see Figure 1). Interested, but concerned bicyclists make up more than half of the total population. These prospective bicyclists feel most comfortable using paved multi-use trails, sidepaths, low-volume neighborhood streets with safe crossings or bicycle facilities completely separated from motor vehicle traffic by physical barriers, and often choose not to bike if these facilities are not present. Somewhat confident and highly confident bicyclists feel comfortable using a broader range of bikeway



facility types, though even more confident bicyclists tend to prefer as much separation from motor vehicles as possible.

Demand for a safe, comfortable network of bikeways is higher than ever in Albuquerque. However, not all of Albuquerque's existing bikeways appeal to the broad range of residents and visitors who are interested in biking. The recommendations from the 2024 Plan focus on creating densely connected networks that create more opportunities for people to ride – and present a variety of options for bicyclists depending on their comfort level.

## Other Types of Trail Users

### Pedestrians or People Walking

This group includes all travel that is primarily foot-powered, including walkers, joggers, runners, and skaters. People walking are typically looking for facilities that provide connections to destinations for utilitarian trips or longer continuous facilities for exercise-related trips. Key facilities for pedestrians include travel ways with a smooth travel surface and infrastructure that helps enhance safety at roadway crossings. The City also must provide adequate access and opportunities for individuals with disabilities to use the multi-use trails and trail system facilities.

### Other Wheeled Trail Users

Other types of trail users may have slightly different needs. These users include in-line and roller-skates, long skateboards, skateboards, and kick scooter users travel at speeds comparable to bicycles, as well as people with baby strollers and individuals in wheelchairs. These users tend to prefer a surface that is smooth without major cracks and often move at a slower pace than other wheeled trail users.

### Equestrians

As with pedestrians and bicyclists, the needs of equestrians vary with experience and relative levels of urbanization and trail development. In areas of higher use, equestrians prefer facilities that provide adequate separation from other user types that may spook horses (e.g., bicyclists or in-line skaters) and an unpaved trail.

### Needs of People of Different Ages and Ability Levels, Genders, and Races

The level of comfort for people bicycling can vary depending on a person's age, gender, and even race. This plan strives to consider the needs for different user types and to make each trip as safe, comfortable, and efficient as possible by providing a connected network of low-stress, high-comfort on- and off-street options for people of all ages, abilities, and backgrounds. This plan also intends to prioritize bikeway investments in areas that

have not had their fair share of investment in the past.

**Ages and Ability Levels:** Child bicyclists, older adults, women, and adults beginning to bicycle may prefer lower-stress, higher-comfort multi-use trails because there is no vehicular traffic or low-stress on-street bikeways such as bike boulevards or separated bike lanes that have greater separation from vehicular traffic. Individuals who cannot afford to drive a car or who choose to live without a car may have preferences that are not as easily classified.

**Gender:** In contrast to northern European countries where half or more of bicyclists are women, in the United States approximately 72% of bicycle commuters are men. Research has shown there are a variety of reasons for this gender gap in bicycling in the United States, including but not limited to lack of safe infrastructure, social or cultural expectations, and concerns over harassment. Trip patterns also vary by gender, as women are often responsible for a disproportionate share of domestic chores and tend to have more complex trip patterns, including dropping their kids off at school before going to work or stopping by the grocery store before picking up an older parent to take them to an appointment.

While there is no silver bullet for achieving gender parity in bicycling, cities that invest in premium infrastructure such as separated





bikeways have seen the largest increases in the number of women who choose to bicycle. A recent study found that when New York City built new separated bike lanes, the project resulted in more overall people bicycling and between a 4-6% increase in women bicycling.

**Race:** It is important to recognize that not all people can move through our communities in the same way and that the mobility for Black, Indigenous, or people of color (BIPOC) can be different because of structural racism in the planning, policy, enforcement, and design of our communities. Past examples that continue to impact today's built environment and communities include redlining, in which the Federal Housing Administration refused to insure mortgages in and near black and brown communities, and the intentional construction of the Interstate Highway System through communities of color, which led to many communities being demolished or bisected.

Historically, BIPOC communities have been intentionally left out and have not had their fair share of infrastructure investments such as sidewalks, bike lanes, or other amenities. City and staff, in collaboration with the community, can intentionally include everyone, particularly BIPOC communities, in the planning and project development processes.



*The City installed buffered bike lanes along San Pedro Drive as part of a road diet in which one lane of traffic was removed in each direction to reduce travel speeds and create safer conditions for people walking and biking.*

## **A Critical Review of Albuquerque Bikeways**

The City of Albuquerque features an extensive system of paved multi-use trails and has greatly expanded its network of on-street bikeways in recent years. However, many of these bikeways are located along high-speed and high-volume roadways that provide important connections but are unlikely to appeal to less confident bicyclists. The

layout of the city and the roadway network also create significant barriers; in addition to the relatively modest number of bridges over the Rio Grande and the Interstates, major street intersections can be challenging or unsafe to cross and limit the ability to reach key destinations.

The 2024 Plan differs from past planning efforts by prioritizing **high-comfort bikeways** that provide as much separation as possible between bicycles and motor vehicles and



**enhanced crossings** that can make biking a safer and more appealing option for a wide range of individuals, including people who do not bike on City streets today.

## ***A Focus on Quicker Implementation***

The 2024 Plan emphasizes projects that are technically feasible and could be implemented in the near term, provided that sufficient funding, staff time, and other resources are available. This approach recognizes that bikeways cannot be implemented on all streets without major reconstruction efforts that are both costly and take place infrequently.

Rather, targeted changes to Albuquerque streets can make an immediate impact and can provide significant benefits in terms of safety and bicyclist user comfort. These lower-cost, high-impact projects include changes within existing curb lines to install new bikeways or enhance existing facilities, and utilizing neighborhood streets that run parallel to busy, higher-stress streets and that still provide useful connections to major destinations.

## **What is (and is Not) Included in the 2024 Plan?**

### ***Targeted Updates to the Previous Plan***

The *2015 Bikeways and Trails Facility Plan*, initially developed in 2012 and updated in 2015, covered a wide range of bicycle, pedestrian, and trail-related issues. Key recommendations from the 2015 Plan have been accomplished, including numerous bikeway improvements, while elements from the Design Manual chapter of the 2015 Plan have been integrated into the City's *Development Process Manual*.

The 2024 Plan focuses specifically on recommendations related to on-street bikeways and paved multi-use trails, including ways to reconfigure existing roads to make bikeways more comfortable, and replaces those elements from the 2015 Plan. Major changes include a revised approach to project identification and prioritization, updated project priority lists, as well as policy and programmatic recommendations and considerations for accommodating e-bikes on paved trails and sidepaths. After adoption, 2024 Plan recommendations are intended to be integrated into the regional Long Range Bikeway System, maintained by the Mid-Region Council of Governments (MRCOG).

The 2024 Plan does not consider certain elements covered in the 2015 Plan, namely unpaved trails, equestrian needs, and recreational facilities within City parks and open space. These items are maintained with the 2024 Plan; however, there are opportunities to revise additional chapters or sections of the 2024 Plan as needed in the future. MRCOG will continue to lead recommendations on unbuilt future roads.



Table 1. Key Components of the 2024 Plan and Differences from the 2015 Plan

Included in the 2024 Plan	Not Included in the 2024 Plan
Conditions along <b>existing bikeways and trails</b> <b>Enhancements to existing bikeways</b> <b>New on-street bikeways</b> , including a range of facility types Proposed <b>paved multi-use trails</b> within City limits <b>Crossing enhancements</b> for paved multi-use trails and bike boulevards Bicycle-related <b>policy and programmatic recommendations</b> Recommendations for <b>sidepath and trail design to better accommodate e-bike users</b> . Updated <b>bikeway evaluation and prioritization process</b> that considers equity and safety	<b>Equestrian and pedestrian considerations</b> : Maintained from the 2015 Plan <b>Bikeways along future roads</b> : Refer to the MRCOG Long Range Bikeway System for alignments and proposed facility types <b>Unpaved trails</b> : Maintained from the 2015 Plan <b>Bikeway improvements outside City limits</b> or the 2024 Plan study area <b>Recreational facilities</b> within parks and open space parcels <b>Trail Maintenance and Operations</b> : Maintained from the 2015 Plan See <b>Appendix H: Additional Considerations for Multi-Use Trails</b> for further information.

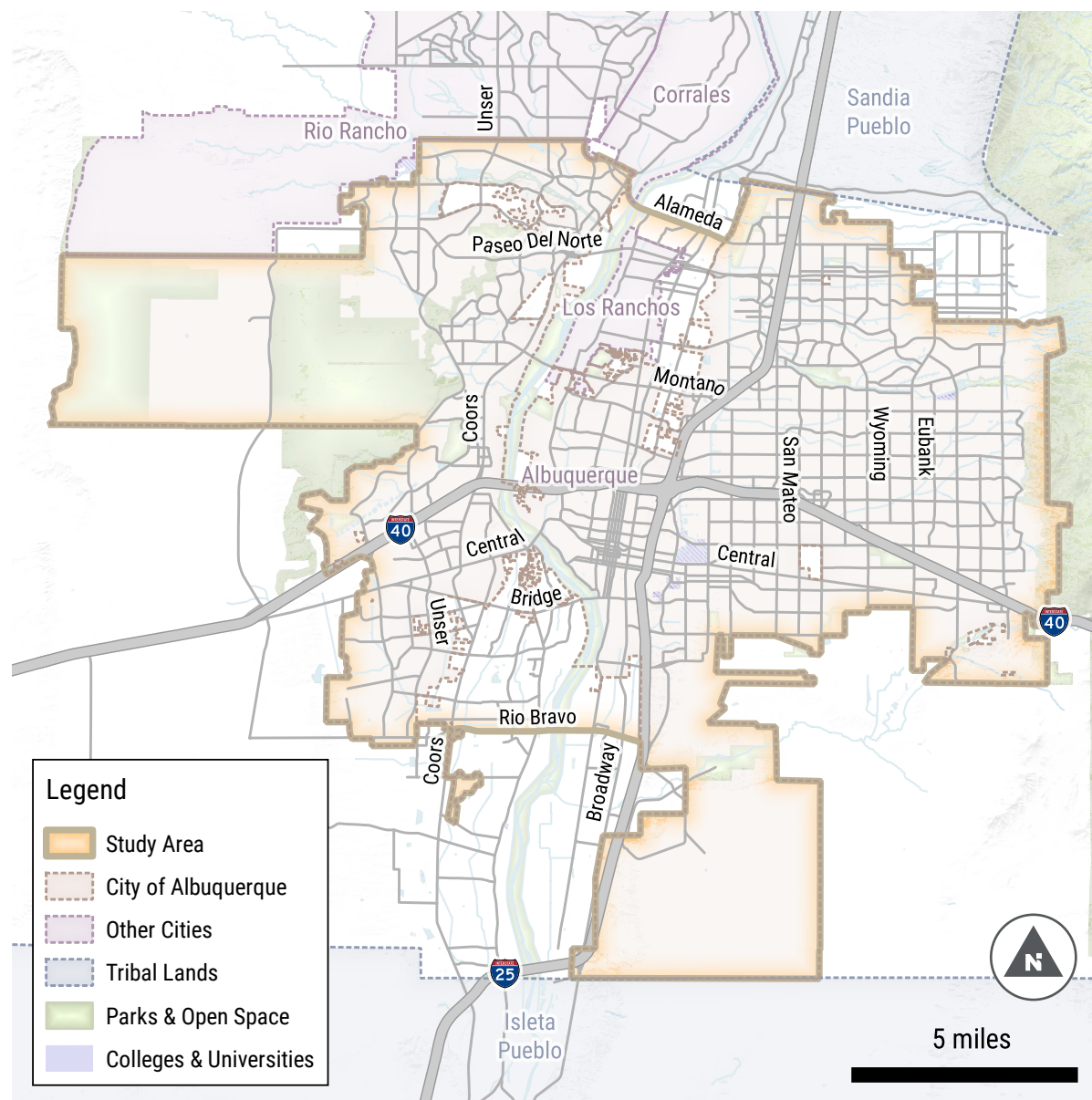




## Study Area

The study area for the 2024 Plan is the extent of the incorporated City of Albuquerque as well as areas between Rio Bravo Boulevard and Alameda Boulevard outside of city limits. Recommendations for unincorporated portions of the study area and the Village of Los Ranchos focus on regional connections that bolster City-led improvements by creating an integrated network that crosses major barriers through the North and South Valley. The 2024 Plan is not intended to replace more detailed local plans and defers to those resources for potential improvements to streets in other jurisdictions, such as the Bernalillo County *Bicycle and Pedestrian Safety Action Plan*.

Figure 2. Bikeway and Trail Facilities Plan Study Area



## Plan Components and Products

In addition to the **formal plan**, the 2024 Plan is accompanied by **online story maps** that present existing conditions analyses and details on priority projects in an accessible format. These online story maps are intended to be user-friendly and easy to access, and can be more easily updated to remain relevant in the coming years.

Key components of the 2024 Plan include:

### 1. Introduction and Plan Overview –

Summarizes the purpose of the plan as well as the vision statement and goals that will guide investments in bikeway infrastructure across the City of Albuquerque.

### 2. Existing Conditions and Programs –

Provides an overview of existing bikeways and paved multi-use trails, including comfort level of existing facilities using a Bicycle Level of Traffic Stress assessment, equity considerations, and the connection between the 2024 Plan and existing city plans and policies, such as Complete Streets and Vision Zero.

- The **Existing Conditions Story Map** shows the streets and paved multi-use trail corridors that appeal to a broad range of people interested in bicycling, as well as the streets where only the

most confident bicyclists are willing to ride.

### 3. Community and Stakeholder Engagement

– Summarizes the phases of community outreach, including engagement strategies and key takeaways from community surveys, as well as the role of stakeholder advisory groups in the plan development process.

### 4. Facility Types –

Outlines the design components and appropriate contexts for bikeway facility types that are present in the City of Albuquerque today and proposed in the 2024 Plan.

### 5. Proposed Bikeways and Trails Network

– Documents the process for identifying potential projects and developing the proposed bikeway and trail networks. For each proposed project, the 2024 Plan indicates the facility type, potential means of implementation, and planning-level cost estimates.

- The **Proposed Network Story Map** displays proposed projects, including information about facility types and project prioritization.

### 6. Implementation –

Documents the process for prioritizing projects, the mechanisms the City can utilize for implementing bikeway improvements, and policy and programmatic recommendations to support bicycle-friendly street design and

further create a culture around bicycling for recreation and transportation.

**Appendices** – A collection of supporting guidance and reference documents for the 2024 Plan and the 2015 Plan. These documents include findings from community surveys, the methodology behind the Bikeway Evaluation Process, a comprehensive set of policy recommendations, and documents that support plan implementation, including a Bike Boulevard Toolkit and profiles of a subset of projects to support project scoping and development.



## Why Bicycling?

Bicycling is both an essential element of the transportation system and a popular activity for recreation. Building physical infrastructure that encourages people to take advantage of these opportunities has numerous benefits for Burqueños and the city as a whole.

**Access to Destinations.** Investing in on-street bikeways and paved multi-use trails increases transportation options and improves access to jobs and services. Over 50 percent of trips in the U.S. are under three miles, and almost 30 percent of trips are under a mile. Bicycling is a practical mode of transportation for trips of these distances, and a wide range of people choose to make shorter trips by bike when safe and comfortable options for doing so are available. Increased adoption of e-bikes make shorter trips that much more convenient and expands the distance that one can easily reach by bike.

**Equity.** Bicycling is an affordable mode of transportation. Many individuals and families struggle to afford the full costs of driving, which includes purchasing, maintaining, insuring, and fueling a car. A network of high-comfort bikeways and trails provides a less expensive transportation option that can connect people to transit and serve individuals who either cannot or choose not to drive.

**Health. Studies** indicate that bicycling provides overall health benefits and is associated with a lower risk of cardiovascular disease and adverse cancer outcomes.

**Well-being.** Bicycling on trails is a great way to experience nature, which can have a positive impact on mental health. **Research** has shown that spending two hours a week in nature can tremendously benefit overall well-being.

**Climate.** Riding a bike is one way to help address a changing climate. Replacing motor vehicle trips with bicycling trips in urban environments reduces carbon dioxide emissions and improves a city's air quality.

**Safety. Research** indicates that cities where more people bike are safer for all road users, with even greater benefits when separated bike lanes are utilized. Choosing to bike generally makes streets safer by reducing the number of vehicles on the road, which can in turn reduce the number of severe injuries and fatalities resulting from crashes. Enhanced crossings for bike boulevards and paved trails also provide direct benefits for pedestrians and improve access to transit.

**Quality of Life.** Interest in biking in Albuquerque has grown in recent years. Popular bike-oriented events go hand in hand with community support to improve and expand bicycling infrastructure. For over 15 years, the City has hosted Bike to Work Day (now Bike to Wherever Day) and recently added a fall event called Bike Thru Burque Week. Burqueños embraced bicycling even more during the COVID-19 pandemic, and that interest appears to be continuing.



# Vision Statement and Goals

This 2024 Plan centers around a clear, bold vision for expanding bicycling options for Burqueños. The vision statement and goals reflect established policy priorities for the City of Albuquerque and input from stakeholders and community members who were involved in the 2024 Plan development process. The goals and objectives provide an overarching purpose and structure for the analysis, prioritization framework, and recommendations contained in the 2024 Plan.

## Vision Statement

Albuquerque is a city that embraces bicycling by implementing convenient on-street bikeways and paved multi-use trail facilities that enhance safety and appeal to people of all ages, abilities, and backgrounds. Over the next decade, the City will increase the range of transportation options and enable a greater share of trips to be made by bicycle by expanding and improving bikeways and multi-use trails into a comfortable and well-connected network.

## Goals and Priorities

### 1. **Equitable: Increase access to on-street bikeways and multi-use trails for all people in Albuquerque.**

- Create opportunities for traveling by bicycle to be a safe and convenient everyday activity by investing in bikeways and trails that appeal to users of all ages and abilities.
- Ensure an equitable distribution of bikeways across the City to provide opportunities for all people to travel and recreate by bicycle.
- Prioritize infrastructure improvements in areas that have not had bikeway investment and/or have a high level of social vulnerability.

### 2. **Connected: Improve and expand the on-street bikeway and multi-use trail networks so they are intuitive, convenient, and well-connected.**

- Increase the extent of the on-street bikeways and multi-use trail networks by implementing new facilities and filling in network gaps.
- Improve crossing opportunities at intersections with major roads and

barriers such as the Interstates and the Rio Grande.

- Create a network of low-stress corridors that connect to enable a wider range of trips to be taken by bicycle.

### 3. **Useful: Create networks of on-street bikeways and multi-use trails that can be used for both recreational and everyday transportation purposes.**

- Improve the quality of existing bikeways and trails to increase user comfort levels and encourage bicycle trips to be made by residents and visitors of all ages and abilities.
- Provide access to a range of everyday locations, recreational sites, and significant community destinations via the on-street bikeway and multi-use trail networks.
- Increase access to Rail Runner and ART stops and major transit station areas.

### 4. **Integrated: Integrate on-street bikeway and multi-use trail development into the City and regional transportation planning processes to increase overall travel options and support health, economic, climate, and environmental efforts throughout the City.**



- Incorporate plan recommendations into city and regional long-range planning efforts and the City’s development review process.
- Support the local economy by increasing bikeway and multi-use trail access to commercial districts and activity centers.
- Support goals from the Comprehensive Plan and Climate Action Plan to reduce transportation costs and transportation-related greenhouse gas emissions through increased opportunities for residents and visitors to travel across Albuquerque without a private vehicle.
- Support the City’s Vision Zero goals of eliminating traffic fatalities and serious injuries by 2040 by implementing high-quality facilities that promote user safety and comfort.

**5. Prioritized: Use an objective, data-driven process for selecting bikeway and multi-use trail improvement projects.**

- Formalize and adopt the use of the City’s Bikeway Evaluation Process and the Bicycle and Trail Crossing Guide as part of the 2024 Plan.
- Emphasize equity considerations among project selection criteria, including demographic characteristics and socioeconomic measures such as

access to vehicles and median household income.

**6. Implementable: Identify feasible improvements that can improve upon and expand the current bikeway and trail networks.**

- Improve bikeway comfort levels by providing separation from motor vehicles as part of street reconfiguration efforts and the design of new streets.
- Ensure maintenance needs of existing multi-use trails and on-street bikeways are met prior to constructing new facilities.
- Continue to incorporate bikeway improvements through the annual Complete Streets Maintenance Program and other transportation projects.
- Consider technical feasibility as part of proposed improvements, including parallel route options if space is not available to enhance existing bikeways.
- Partner with adjacent jurisdictions and transportation agencies to implement improvements for bikeways and multi-use trails that support regional trips across municipal boundaries.



THIS PAGE IS INTENTIONALLY LEFT BLANK.







## 2. Existing Conditions and Programs



## Overview

The 2024 Plan public outreach process revealed that if given quality bicycle infrastructure, there would be a greater demand for everyday bicycling. That public demand is supported through various initiatives and policies that seek to further build out the City's bicycling infrastructure. This chapter provides an overview of the current bicycle planning context, including key city priorities and how they relate to bicycle planning, as well as the existing bikeways and trails network. This chapter also outlines various analyses used in the 2024 Plan to consider how well existing bikeway facilities meet the needs of community members. See the [Existing Conditions Online Story Map](#) for detailed maps and additional information on existing bikeways.

## Key Policy Priorities and Programs

The 2015 Plan guided the implementation of numerous bikeway improvements and outlined bicycle design considerations that have subsequently been integrated into the *Development Process Manual*, the City's infrastructure design document. This section highlights key issues and policy priorities that support investments in bikeway infrastructure, as well as implementation measures

that are helping to create safe streets that meet the needs of all users. See Table 2 for a full overview of relevant plans and policies, including how the 2024 Plan will build on these documents, and **Appendix A: Planning & Policy Framework** for detailed summaries.

### Safety

Albuquerque has some of the highest traffic fatality rates in the U.S. and people walking and biking are especially vulnerable. Following an executive order and Vision Zero pledge that established safety as a policy priority, the City developed an initial [Vision Zero Action Plan](#) (2021) and [Vision Zero Year in Review Report/Action Plan Update](#) that outline areas of improvement for the City of Albuquerque and identifies strategies for eliminating traffic fatalities and serious injury crashes by 2040, including safe multimodal street designs and a shift to active modes. The report also emphasizes the need to address safety in vulnerable communities, defined as parts of the city where individuals are more likely to rely on walking, bicycling, and taking transit.

To support Vision Zero policies, the City is using a one-time City Council funding allocation to fund a range of safety projects and initiatives, including improvements along Louisiana Boulevard and other High Fatal and Injury Network (HFIN) corridors. The inauguration of an automated speed enforcement

program in 2022 has resulted in meaningful reductions in speed along corridors with high crashes, including locations documented on the City's HFIN. Other efforts include the implementation of a Downtown Safety Zone with reduced speed limits to 20 mph and the installation of enhanced pedestrian crossings—a major priority for the 2024 Plan—along corridors such as Central Avenue.

### Complete Streets

Through various policies, implementation programs, and updates to the *Development Process Manual*—the City's roadway design standards document—the City has integrated Complete Streets principles into its transportation decision-making processes and investment decisions. This focus begins with the City's [Complete Streets Ordinance](#), originally passed in 2015 and updated in 2019, which commits the City of Albuquerque to consider the needs of people walking and biking as part of all roadway projects, including rehabilitation and new road construction. The Ordinance cites the need to create a well-connected transportation network that serves all roadway users and to implement and prioritize improvements equitably by examining neighborhood factors, such as low-to-moderate income, the number of older residents, people with disabilities, and traffic fatalities.





## Implementation

Recently developed design documents and programs provide the City with tools for implementing high-quality bikeways and enhanced crossings.

The [\*Development Process Manual\*](#) (DPM), updated in 2020, is the City's technical standards document and provides design standards and guidance on public infrastructure that is installed or improved as part of public capital improvement projects or privately-funded site development, including bikeway and trail facility type definitions and design elements. The DPM update incorporates best practices in facility design and encourages wider bike lanes and buffers to the extent feasible. The DPM defers to the *Bikeway and Trail Facilities Plan* for facility selection.

The [\*Bicycle and Trail Crossings Guide\*](#) is used as a reference by City staff when identifying locations for a crossing and appropriate crossing types and complements the street design guidance contained in the DPM. Depending on the context, recommended crossing treatments range from simple crosswalk markings to more robust treatments such as rectangular rapid flashing beacons (RRFB) or pedestrian hybrid beacons (PHB). Several PHBs have been installed in recent years along corridors such as Central Avenue and Lomas Boulevard.



*Recently installed PHB along Central Avenue near the International District Library*



The **Annual Complete Streets Maintenance Program** serves as a primary mechanism for implementing the Complete Streets Ordinance by incorporating design techniques that support the needs of people walking and biking into restriping plans when roads are resurfaced. The program has led to tangible changes to the configuration of roads in Albuquerque; in 2023 alone, the program resulted in 16.5 miles of new or enhanced bikeways. Because the program installs bikeways across the city, community members see multi-modal facilities in all neighborhoods, increasing awareness and expectations about the presence of people walking and biking.

**Table 2. Bikeway Enhancements Completed Through the Annual Complete Streets Maintenance Program, 2021-2023**

<b>Bikeway Improvement</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>Three-Year Total</b>
<b>New Bike lane miles</b>	1.4	5.4	2.5	9.3
<b>New buffered bike lane miles</b>	3.3	5.3	8.7	17.3
<b>Miles of existing bike lanes expanded to meet or exceed current minimum width of 5'</b>	3.6	2.7	5.3	11.6
<b>New road miles of bike routes (shared lane markings)</b>	0.0	4.0	0.6	4.6
<b>Road lane miles where the driving lane was narrowed</b>	11.4	18.2	6.2	35.8
<b>Road lane miles where striped parking was added to narrow the roadway</b>	2.3	11.0	1.5	14.8
<b>Miles of road diets</b>	1.6	1.0	2.5	5.1
<b>Intersections where daylighting was added</b>	0	79	24	103
<b>New or refreshed crosswalks</b>	0	48	68	116





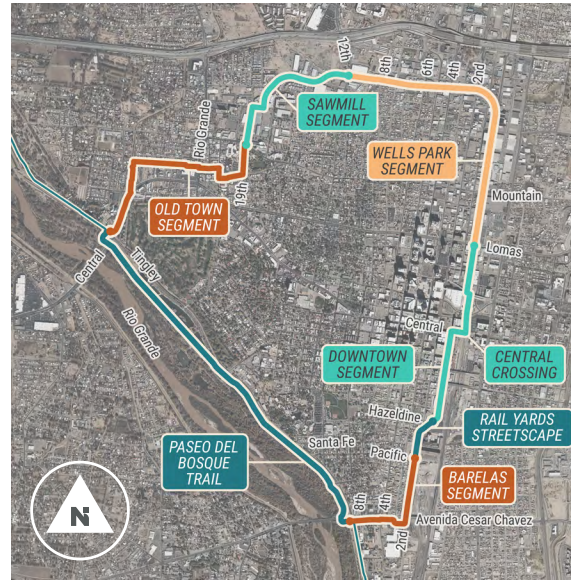
## Signature Projects

The **Albuquerque Rail Trail** is a planned seven-mile loop and signature urban trail through the greater Downtown Albuquerque area. The paved trail will link numerous key destinations: including the Rail Yards, Downtown core, Wells Park, Sawmill, Old Town, Bosque Trail, Baretas, and the National Hispanic Cultural Center. The loop will consist of a combination of trails at sidewalk level along city streets, portions of the BNSF rail corridor and the spur through Sawmill, and the existing Paseo del Bosque trail along the Rio Grande.

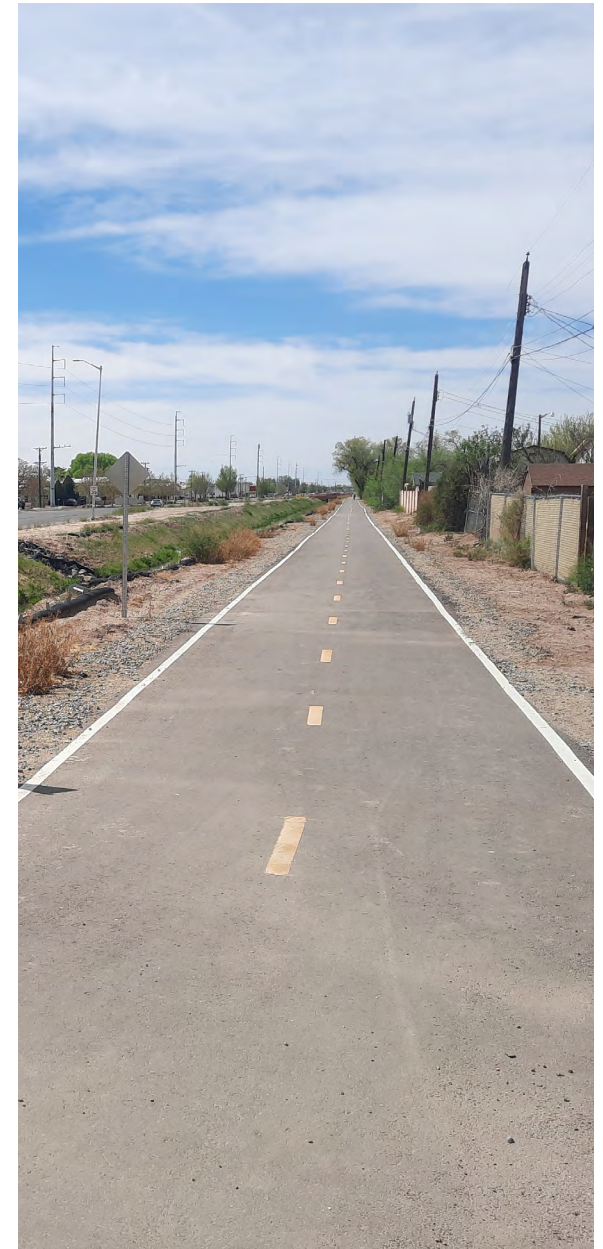
Once completed, the Rail Trail will serve as a major amenity and recreational attraction and will provide transportation connections for people walking and biking throughout the greater Downtown area. Similar trails in cities across the US have also spurred revitalization and new housing development.

The **Alameda Drain Trail** runs parallel to historic drainage and irrigation facilities and will ultimately provide a high quality paved multi-use trail for nine-miles from I-40 to the northern end of 2nd Street. The project is a cooperative effort among Bernalillo County, the City of Albuquerque, Middle Rio Grande Conservancy District, and the Albuquerque Metropolitan Arroyo Flood Control Authority and is being completed in phases, with various segments complete and others in various stages of design and construction, as of early 2024.

Figure 3. Proposed Segments for Albuquerque Rail Trail



The 2024 Plan considers both the Rail Trail and the Alameda Drain Trail to be critical components of the proposed bikeways and trails network and identifies various connections to the facilities.



Alameda Drain Trail south of Griegos Road



**Table 3. Applicability of Relevant Plans and Policies and Opportunities for Further Progress**

Category	Document	Relevance to the 2024 Plan	Opportunities for Further Progress Through the 2024 Plan
<b>Policy Documents</b>	<b>Comprehensive Plan (2017)</b>	Policy document that provides a vision for long-term growth and development priorities, including transportation and urban design. Contains high-level descriptions of bikeway facility types.	Incorporate relevant policies into bikeway prioritization to further support implementation of Comp Plan goals and policies.
	<b>Complete Streets Ordinance (2019)</b>	City Ordinance requiring the consideration of Complete Streets design principles and the needs of people walking and biking as part of all roadway projects.	Define desired bikeway facility types and their application based on City of Albuquerque road conditions.
	<b>Vision Zero Action Plan (2021) and Year in Review (2023)</b>	Outlines areas of action to address crashes resulting in serious injuries and fatalities for the city as a whole, and for vulnerable communities and vulnerable road users, in particular. Contains a City-level prioritized High Fatal and Injury Network (HFIN).	Incorporate safety data and Vision Zero analyses into bikeway prioritization.
	<b>Climate Action Plan (2021)</b>	Establishes the value of walking and bicycling as mitigation and resilience strategies and documents community desires to increase pedestrian and bikeway facilities.	Prioritize projects that are most likely to increase the share of trips taken by bicycle, producing a reduction in GHG emissions.



Category	Document	Relevance to the 2024 Plan	Opportunities for Further Progress Through the 2024 Plan
<b>Regional Planning Documents and Programs</b>	<b>Statewide Prioritized Bicycle Network Plan (NM Bike Plan)</b>	Identifies a system of priority tiers and design guidance for bikeway facilities along US and NM highways based on the role the roadway could play in statewide and regional bikeway systems.	Consider potential NMDOT-led improvements as part of the 2024 Plan recommendations
	<b>Connections: 2040 Metropolitan Transportation Plan (2020)</b>	Documents current transportation trends while projecting future transportation needs and establishing regional investment priorities.	Develop recommendations that can form the basis for federal funding applications.
	<b>Long Range Bikeway System</b>	Contains a regional map of existing, planned, and proposed bikeways, based on input from public agency staff across the Albuquerque region, as well as proposed bikeways on future roads that will be built as a part of development projects.	Consider previously proposed enhancements as an input to the network development process. Incorporate bikeway and trail recommendations from 2024 Plan into the Long Range Bikeway System.
	<b>MRCOG Non-Motorized Traffic Counts Program</b>	Program provides quantitative data on level of use along existing bikeways and trails.	2024 Plan can be used as a reference for prioritizing locations for data collection.



Category	Document	Relevance to the 2024 Plan	Opportunities for Further Progress Through the 2024 Plan
<b>Reference Documents</b>	<b>Bikeways &amp; Trails Facility Plan (2015)</b>	Previous city-level bikeway and trail plan that establishes bicycle and trail-specific goals, proposes capital improvements, and outlines potential programs and policy recommendations.	Focus on an implementable network of bikeways and trails that suits the needs for people biking of all ages, abilities, and backgrounds. Create criteria for selecting, designing, and implementing bike boulevards. Reconcile the bikeway and trail network with the LRBS. Update recommendations for on-street bikeways and paved multi-use trails.
	<b>Development Process Manual (2020)</b>	Technical standards document for infrastructure improvements, which provides design guidance on a variety of public and private developments, including public right-of-way and bikeway and trail facilities design.	Incorporate emerging best practices in bikeway and trail design into City design standards.
	<b>Bicycle &amp; Trail Crossings Guide (2021)</b>	Identifies appropriate crossing facility types and countermeasures for improving roadway crossing conditions along bicycle and trail routes and decision-making guidance.	Apply crossing treatment guidance to trail and bike boulevard crossing locations and prioritize investments that will support a well-connected, low-stress network.
	<b>Bikeway Project Evaluation Process: Overview and Methodology (2022)</b>	Outlines the City's evaluation process for selecting bikeway projects based on the project benefits, technical feasibility, and the magnitude of cost.	Update the process to ensure consistency with 2024 Plan goals and objectives. Formally adopt the evaluation process as part of the 2024 Plan.



Category	Document	Relevance to the 2024 Plan	Opportunities for Further Progress Through the 2024 Plan
<b>Implementation Programs</b>	<b>Annual Complete Streets Maintenance Program</b>	Leverages city-wide repaving and restriping program to implement on-street bikeways.	Identify projects that could be implemented through Complete Streets resurfacing, as well as complementary treatments to further enhance safety and user comfort.
	<b>Capital Project Development</b>	City-led bikeway and trail implementation projects, either as standalone projects or part of larger roadway improvements, utilizing funds from general obligations bonds and other City sources.	Identify clear project priorities and magnitude of cost estimates.
	<b>Private Development</b>	Site development projects are required to improve the roadway frontage, creating a means for implementing sidepaths. Trails and bikeways may be built on new roads accompanying private subdivision development.	Identify desired bikeway improvements that could occur through private development.



Category	Document	Relevance to the 2024 Plan	Opportunities for Further Progress Through the 2024 Plan
<b>Recent / Ongoing Studies</b>	<b>I-25 Bicycle Accessibility Study (2020; updated 2021)</b>	Evaluates gaps in the bikeway network caused by I-25 and identifies potential improvements.	Integrate and prioritize recommendations into the 2024 Plan as appropriate. Review the benefits of previously proposed I-25 bridge crossing locations.
	<b>Bike Gap Closure Project List Summary Profiles and Feasibility Study– Summary Profiles (2022 / 2023)</b>	Evaluates opportunities to close gaps on existing bikeways, based on priority list provided by GABAC (now GAATC). Feasibility Study conducts further engineering analysis on three priority locations: San Pedro Dr, Claremont Ave, and the Osuna Rd/San Mateo Blvd intersection.	Incorporate previously proposed bikeway and trail projects into the recommended network in the 2024 Plan, as appropriate.
	<b>Rail Trail Framework Plan, Alignment Studies, and Planning and Design (Ongoing)</b>	Set of studies and plans that identify the alignment, preferred design, and desired amenities along the proposed Rail Trail.  Design in progress on the first segments as of 2024.	Incorporate the Rail Trail alignment into the recommended network and identify potential on-street connections.
	<b>Rio Grande Trail Master Plan (ongoing)</b>	Identifies alignments for a 500-mile multi-use trail open to people hiking, biking, and horseback riding along the Rio Grande corridor from Texas to Colorado.	Coordinate on recommended trail alignments through the City of Albuquerque.
	<b>UNM Integrated Campus Master Plan (ongoing)</b>	Guides the University of New Mexico’s decisions on the physical environment and character of each campus, including issues related to access and mobility.	Coordinate on recommended street and bikeway projects that connect to and travel through the UNM main campus.





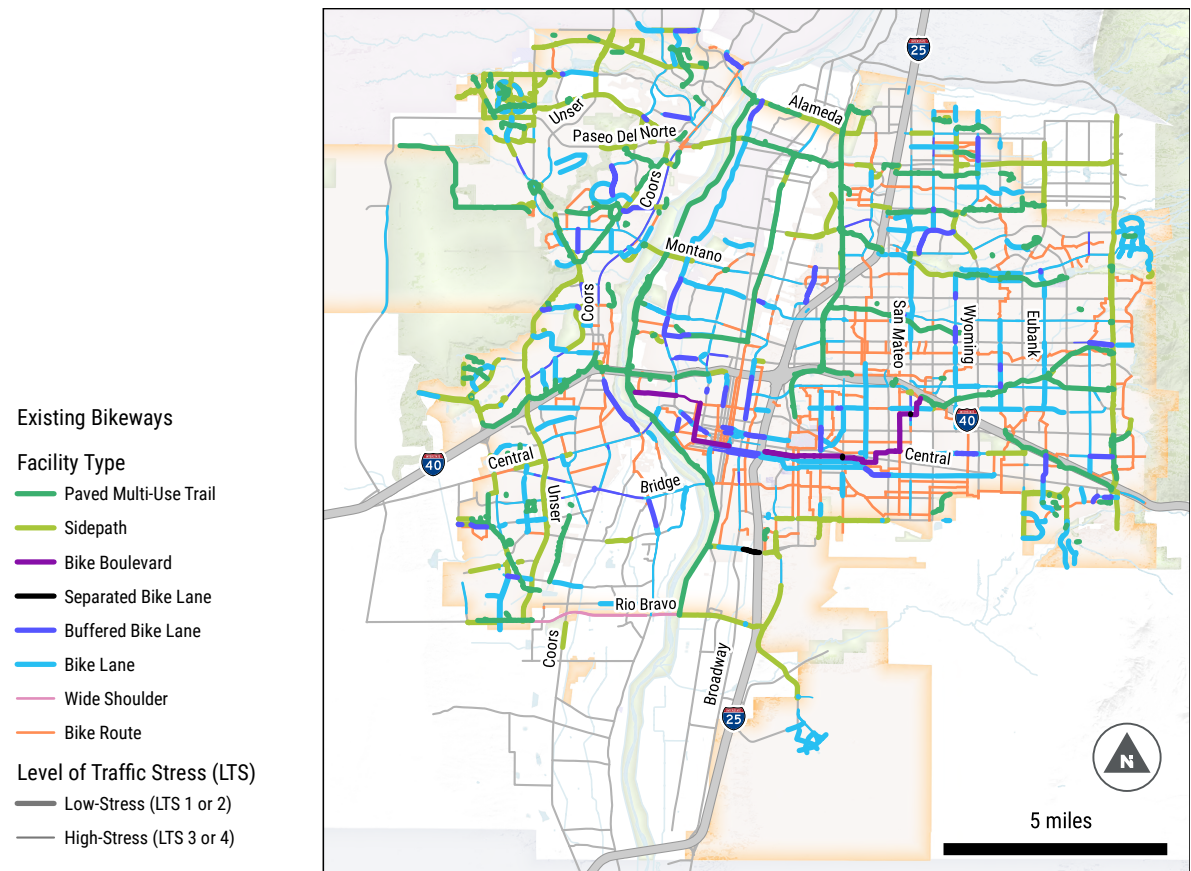
# Existing Bikeway and Trail Facilities

The City of Albuquerque features an extensive network of bicycling infrastructure, consisting of a variety of on-street bikeways and paved multi-use trails and sidepaths. Figure 4 depicts the existing bikeways and trails. Table 4 provides definitions and summarizes the mileage of bikeway and trail facilities by type across the City of Albuquerque. See **Chapter 4: Facility Types: Definitions and Considerations** for additional information on design considerations and appropriate context for different facility types.

Altogether, the City of Albuquerque features over 420 miles of paved multi-use trails and on-street bike lanes. Of the 230 miles on bike lanes, 32 miles have been installed since 2015. In that span, dozens of miles of bikeways have also been upgraded to meet or exceed design standards (i.e., a minimum width of 5') or to include buffers.

The on-street bikeway network also includes shared streets – bike routes and bike boulevards – where some combination of signage, pavement markings, and traffic calming features are utilized to indicate to motorists that bicyclists may be present and to create safer conditions for people bicycling. Bike routes are noted in Table 4 but are not

Figure 4. Existing Bikeways and Trails



included in the analyses that follow as they do not feature the enhanced crossings or other conditions that are critical for creating useful connections that appeal to bicyclists of all ages and abilities.

As of Spring 2024, the City does not have any separated bike lanes (also called protected bike lanes); however, the separated bike lanes

will be installed along Louisiana Boulevard between Gibson Boulevard and Kathryn Avenue in 2024 and are among the facility types recommended for Albuquerque streets as part of the 2024 Plan. Bernalillo County recently installed separated bike lanes along Sunport Boulevard.



**Table 4. Definitions of On-Street Bikeway and Paved Trail Facility Types and Current Mileage**

Facility Type	Definition	Total Miles		
		2015 City	2023 City	2023 Plan Study Area
<b>Paved multi-use trails</b>	Off-street facilities in their own right-of-way that are shared among people biking, walking, jogging, and rolling.	160*	91.8	109
<b>Sidepaths</b>	Two-way, off-street paved facilities that are shared among people biking, walking, jogging, and rolling. Sidepaths are located within the public street right-of-way on the outside of the curb and are designed to the same standards as paved multi-use trails.		92.0	100.5
<b>Standard bike lanes</b>	Separate, dedicated space for people biking that is delineated by striping. Standard bike lanes are typically located at the road edge and include signage and bike stencils, but do not provide additional vertical or horizontal separation from vehicular travel lanes.	198*	194.8	214.5
<b>Buffered bike lanes</b>	Bikeways with striped, horizontal space between the bike lane and the adjacent vehicle travel lane to provide additional separation between bicyclists and moving vehicle traffic.		35.6	38.0
<b>Separated bike lanes</b>	Also known as protected bike lanes, separated bike lanes are a type of bike lane that is located at street level but features some form of vertical separation from motor vehicles.	0	0.1	0.4
<b>Paved bikeable shoulders</b>	Space at the road edge separated by striping that can be used by people biking. Unlike bike lanes, shoulders typically do not feature bike stencils or signage indicating bicyclists may be present. Bikeable shoulders are typically located in more rural areas and on the edges of the city.	N/A	1.4	4.5
<b>Bike boulevards</b>	Low-stress corridors that feature traffic calming elements, frequent signage and pavement markings, and enhanced crossing treatments to reduce through-vehicle traffic and manage vehicle speeds. Though people biking share space with motor vehicles, the low-stress conditions ensure these bikeways appeal to people biking of all ages and abilities.	6	8.9	8.9
<b>Bike routes</b>	Shared streets that use signage to indicate that bicyclists may be present. Bike routes are typically, but not always designated along local streets with low volumes of vehicle traffic. Some bike routes include pavement markings.	116	162.4	177.8

*Note: Summary conditions as of December 31, 2023. \*2015 data did not distinguish among different facility types.*





## Other Multi-Use Trails

The City features other multi-use trails that are not paved but are also intended for various users. Unless these trails are located in Major Public Open Space or a City park, they are typically informal and not maintained as trails.

Examples of unpaved multi-use trails include the extensive network of drains and ditches (also sometimes known as acequias) within the Middle Rio Grande Conservancy District (MRGCD), which owns and/or maintains this irrigation system. Other unpaved multi-use trails can be found along the Bosque, in City Major Public Open Space, County Open Space, the United States Forest Service, and the National Park Service among other public and private lands.

The Open Space Division manages just over 100 miles of official trails, including in City-owned Major Public Open Space in Sandoval and Bernalillo Counties. Many of these “single-track” trails or hiking are about one and a half to two feet wide and attract many hikers, runners, dog walkers, and mountain bicyclists. All of these unpaved trails are considered to be part of Albuquerque’s multi-use trail system, despite the City’s varying degrees of oversight and maintenance.

The 2024 Bikeway and Trail Facilities Plan did not include updated information for unpaved or equestrian trails.



*Unpaved multi-use trail through the Bosque*





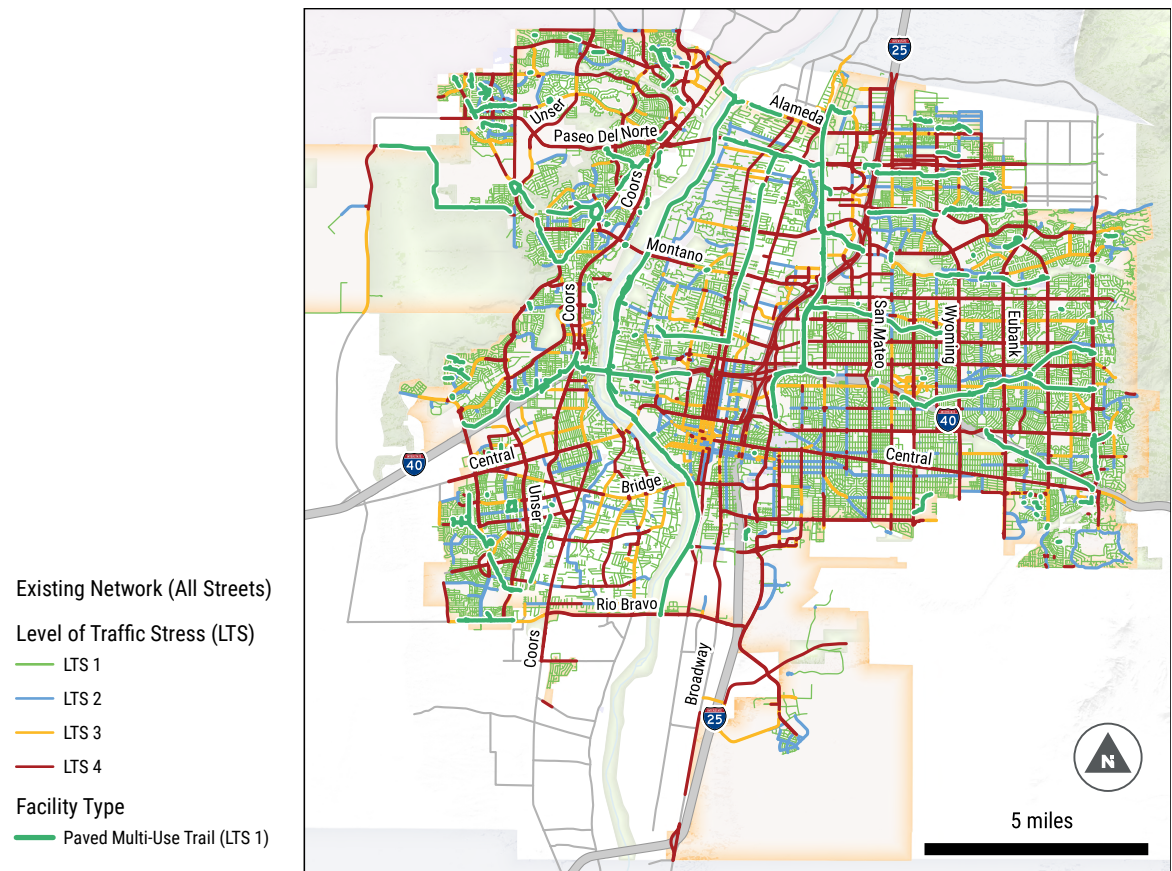
# How Well Does the Bikeway Network Meet the Needs of Albuquerque Community Members Today?

## Measuring Traffic Stress

Level of Traffic Stress (LTS) is a widely-used planning tool that systematically quantifies the stress a person is likely to experience while bicycling on a particular street. LTS is based on the premise that a person's level of comfort on a bicycle increases as separation from vehicular traffic increases or as traffic volume and speed decrease. LTS utilizes a numerical scale to classify streets and multi-use trails from greatest comfort (LTS 1) to least comfort (LTS 4). Most people interested in bicycling feel comfortable doing so on lower-stress facilities (LTS 1 and LTS 2), whereas more confident bicyclists may also feel comfortable riding on higher-stress facilities (LTS 3 and LTS 4).

Figure 5 shows current LTS values for all roads in the 2024 Plan study area, including roads with and without bikeways, while Figure 6 shows LTS values for streets with existing bikeways, including the facilities that are classified as low stress today (i.e., LTS 1 or

Figure 5. Current LTS Levels of all Albuquerque Streets



2). All paved multi-use trails and sidepaths are classified as LTS 1 because they provide separation from traffic, even when located adjacent to roadways with fast, heavy vehicle traffic. Many residential streets are also classified as LTS 1 because they have low traffic volumes and speed limits. Due to the lack of physical separation between motorists and bicyclists and the relatively high posted

speeds and traffic volumes, many roads in Albuquerque with existing bike lanes are considered LTS 3 or 4. Bike lanes along roads with lower posted speed limits (i.e., 30 MPH or less) and modest traffic levels (i.e., less than 7,000 vehicles per day) are generally considered LTS 1 or 2.

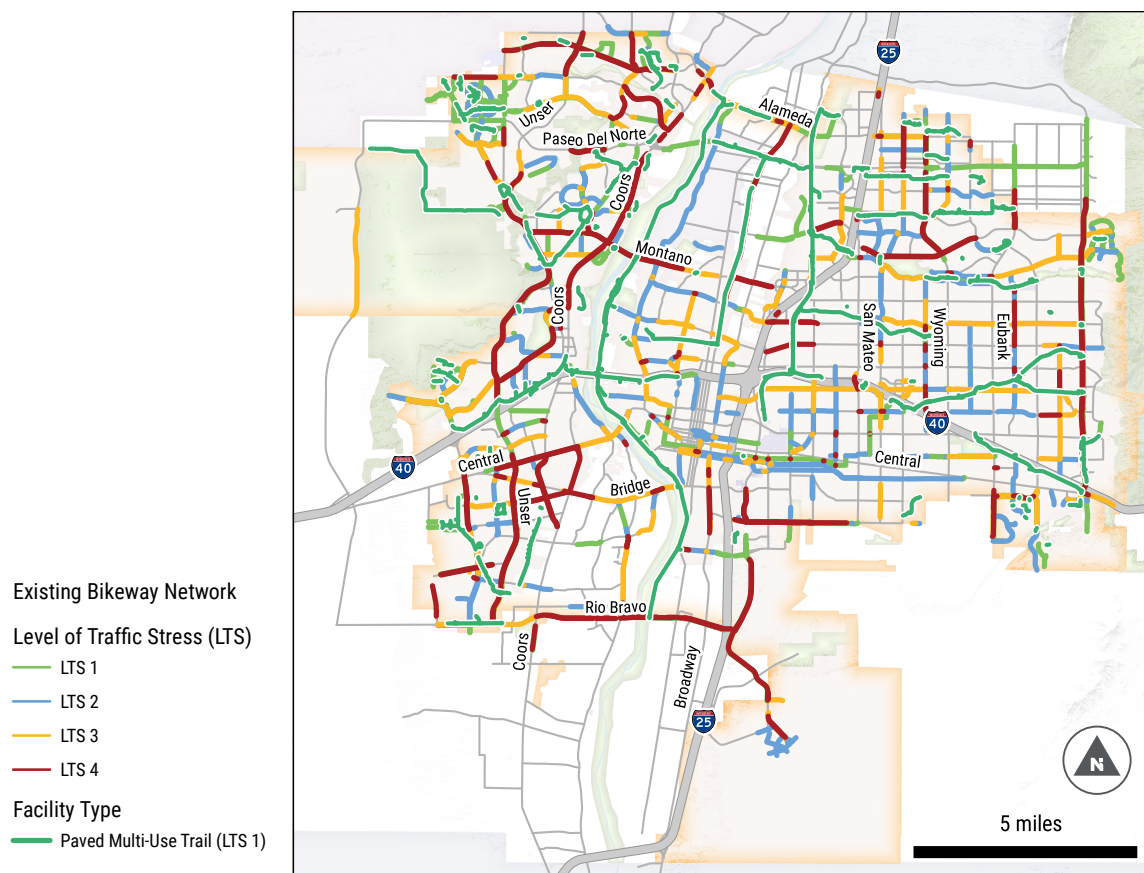


A central goal of the 2024 Plan is to identify and prioritize actionable next steps the City can take to expand the low-stress bikeway network and create safe, comfortable, and attractive biking options for a broad range of community members. As shown in Figure 6, only a limited number of Albuquerque’s existing streets and facilities provide a comfortable, low-stress biking experience that appeals to people of all ages and abilities—and these low-stress facilities are often not connected. The disconnected network limits access to destinations (including multi-use trails) and discourages people from making longer trips by bike. See the [Existing Conditions Story Map](#) for detailed information.

## Applying LTS Results

The 2024 Plan uses LTS as a reference for locations where user comfort could be enhanced on existing bikeways and quantifies the potential for proposed projects to achieve a lower LTS as part of the facility needs criterion in the Bikeway Evaluation Process. 2024 Plan recommendations include opportunities to create lower-stress conditions on streets with existing bikeways through further separation between people biking and motorists or slower vehicle speeds—achieved through techniques such as narrower travel lanes and modified signal timing patterns. The 2024 Plan also considers opportunities for bikeways on lower-volume streets that are parallel to higher-stress streets that are typically costlier to reconfigure.

**Figure 6. LTS Levels along Existing Bikeways**



## Notes on LTS Methodology

The LTS assessment was applied to the entire network of streets and paved trails across the 2024 Plan study area, including locations with and without dedicated bikeways. For the purposes of LTS analysis, only certain bikeways (i.e., bike lanes, shoulders, and trails) are considered to be dedicated bicycle facilities. Though bike routes help direct bicyclists to key destinations and raise awareness of their presence on the road to motorists, these routes are scored using the “mixed traffic” criteria as there is no physical separation between moving traffic and bicyclists, and research indicates the presence of signs alone does not influence traffic stress.

The stress or comfort people feel based on their proximity to traffic is an important aspect, but far from the only component, of people’s biking experience. Other factors influence the decision to ride a bicycle on a particular facility, including incidences of speeding and conflicts with turning movements at driveways and site access points.

## LTS Inputs

LTS builds on the Mineta Transportation Institute’s nationally-recognized research and applies LTS rating values for individual street segments based on the following inputs and characteristics:

- Bicycle facility presence, type, and width
- Posted speed limit
- Number of travel lanes per direction
- Average daily traffic (ADT) volume
- Presence and width of on-street parking lanes
- Presence of a centerline

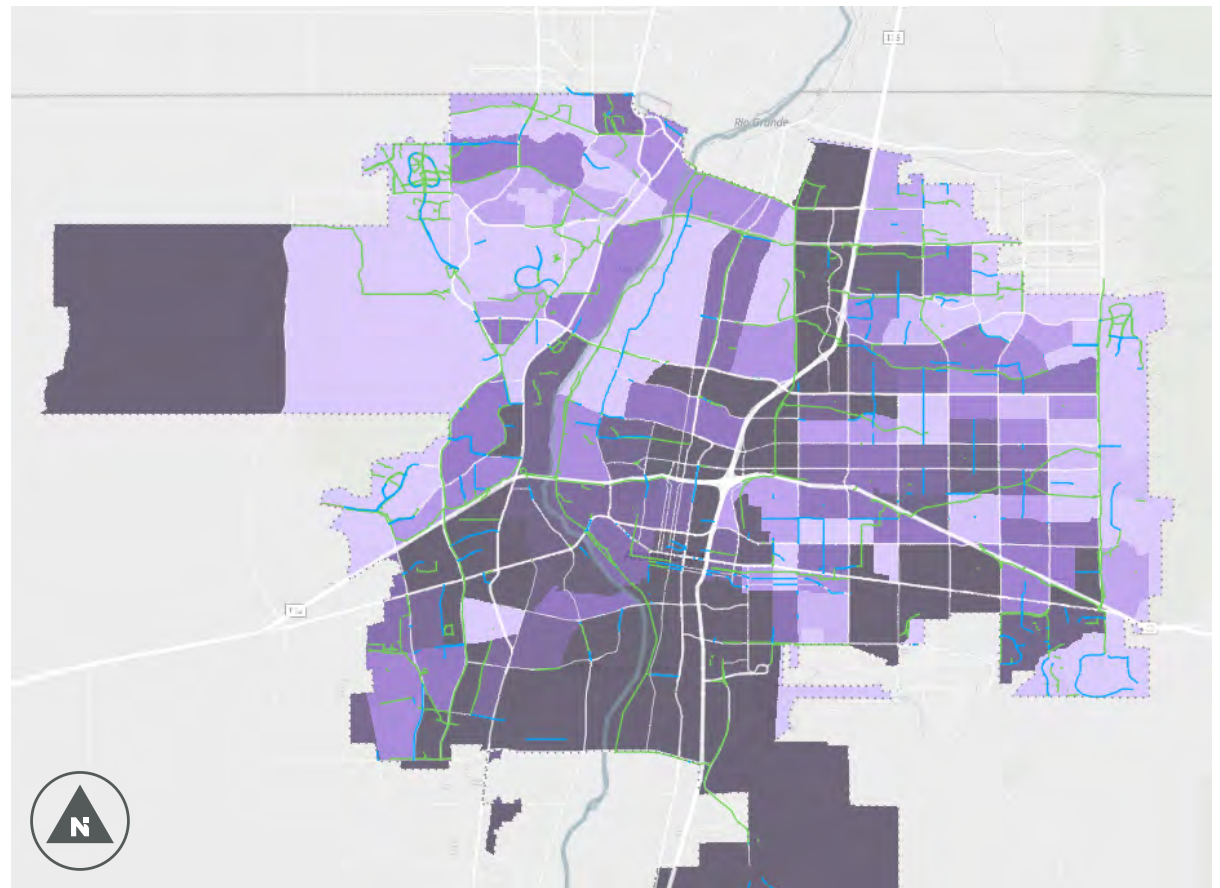


## Equity in Access

Access to low-stress bikeways is not evenly distributed across the City of Albuquerque. Figure 7 displays the low-stress bikeway network overlaid on top of the Vulnerability Index used by the Mid-Region Council of Governments and the City of Albuquerque for various equity-related analyses. Darker colors represent the Census tracts with more vulnerable populations, as measured through indicators related to:

- Per-capita income and poverty levels
- Population dynamics (including share of residents 17 years old or younger and 65 years old or older)
- Population with a disability
- Non-white population
- Population with limited English proficiency
- Multi-family housing with 10 or more units
- Households with limited access to vehicles

Figure 7. Vulnerability Index and Existing Low-Stress Bikeways



### Applying Equity Analysis

The Vulnerability Index data can be contrasted against the existing bikeway and paved multi-use trail networks to understand how accessible low-stress facilities are to different population groups. The International District, for example, has no meaningful low-stress bikeways, despite being home to

a high number of lower-income individuals and families who either cannot afford or must make large financial sacrifices to own and drive a car. The Bikeway Evaluation Process incorporates the Vulnerability Index into project prioritization. See **Chapter 6: Implementation** for additional details.



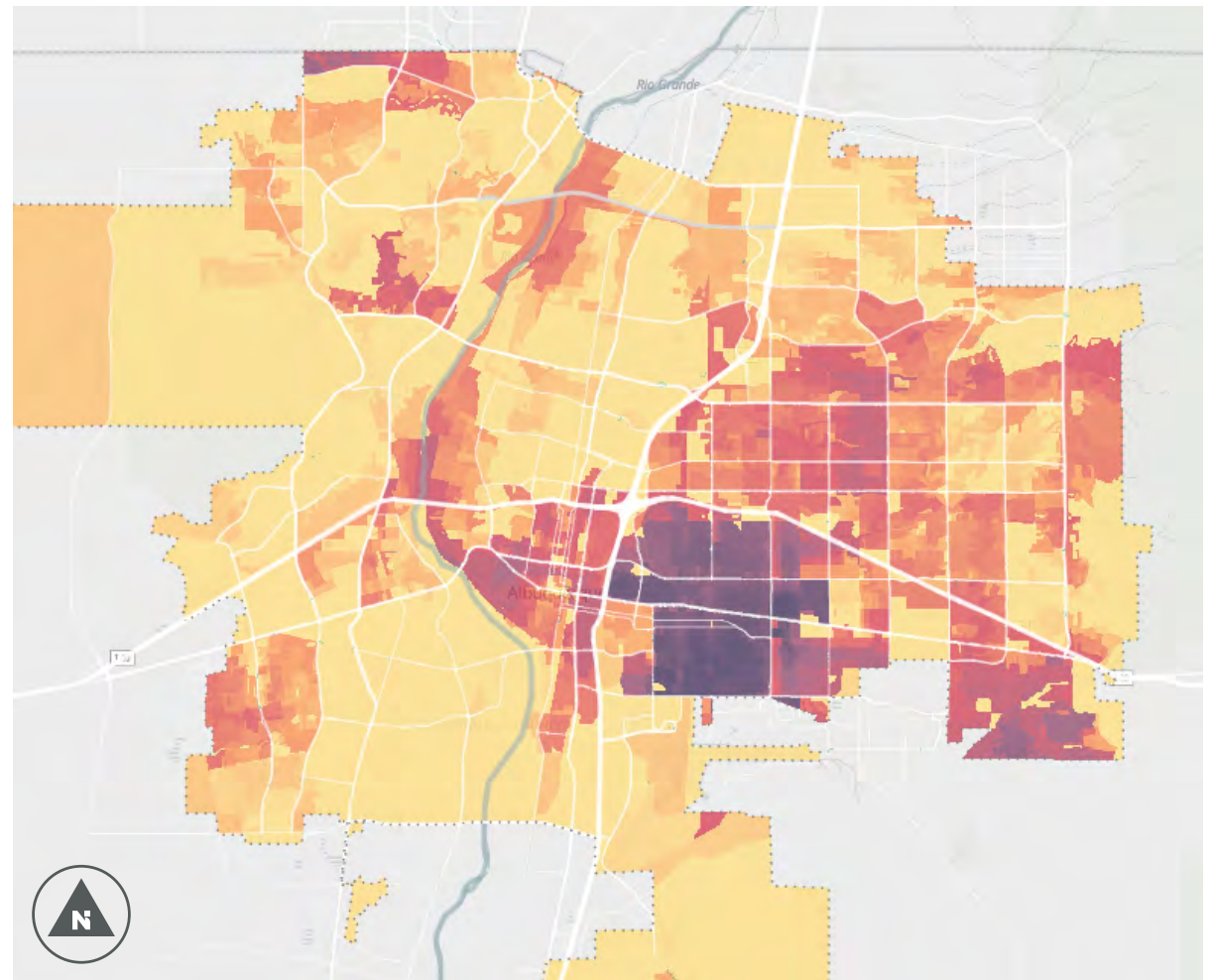


## Opportunities for Connections

Bicycle Network Analysis (BNA) highlights areas where bicyclists cannot easily access destinations such as schools, major job sites, and stores via low-stress bikeways and paved multi-use trails. BNA integrates LTS data with consideration of how bicyclists experience intersections to reflect not only bicyclists' comfort or stress riding along streets and multi-use trail corridors, but also how existing infrastructure allows or prevents them from crossing major roadways safely and comfortably.

Places shown in darker colors represent the areas where bicyclists can access a broad range of destinations using low-stress bikeways and paved multi-use trails, while places shown in lighter colors represent areas where bicyclists can reach fewer destinations. In Albuquerque, biking access to destinations is greatest in the neighborhoods surrounding the University of New Mexico, where there is a dense concentration of destinations and several low-stress bikeways. Meanwhile, large swaths of the South Valley—including areas in the City of Albuquerque and unincorporated Bernalillo County—have limited biking access to destinations. Investments in higher-comfort bikeways and multi-use trails can help improve bicycling access to critical destinations in these areas.

Figure 8. Bicycle Network Analysis Results



### Applying BNA Results

This 2024 Plan uses BNA as a reference during network development to identify areas where additional low-stress connections would be particularly beneficial and prioritizes

implementable bikeway projects that provide connections through local neighborhoods and across regional barriers like the Rio Grande to help make biking a safe, comfortable, and enjoyable option for trips citywide.





A photograph of a community outreach event on a sunny day. In the foreground, a woman in a patterned shirt and jeans holds a large sheet of paper, standing next to a person kneeling and looking at a brochure. A black bicycle with a basket of oranges is parked nearby. In the background, a man on an orange bicycle is visible, along with other people, tents, and trees. A large red diagonal stripe is on the left side of the image.

# 3. Community and Stakeholder Outreach



# Overview

The City of Albuquerque used a variety of outreach strategies to raise awareness about the 2024 Plan development process and gather input from community members on bicycling-related needs and priorities. This chapter summarizes the community and stakeholder outreach and highlights some of the key takeaways that informed the 2024 Plan.

Figure 9. Public and Stakeholder Outreach Infographic

3

## Phases of Outreach

12+

Hosted more than a dozen pop-up meetings

5

Community meetings

9

City and regional committee presentations

2

## Stakeholder working groups

8

Total meetings

2

Surveys in English and Spanish that reached >1,200 people



Pop-up events during Bike to Wherever Day and Bike Thru Burque Week



## Key Takeaways

The key takeaways listed below represent a combination of input received from stakeholders and community members at in-person meetings and pop-up events and through the initial community survey. **This input informed the 2024 Plan vision and goals, proposed bikeway projects, and the criteria used in project prioritization.** Detailed summaries of both surveys can be found in **Appendix B: Community Survey Summary** and **Appendix C: Project Priorities Survey Map Results.**

- **Survey respondents see positive changes in Albuquerque over time:** Survey respondents were generally positive about the trajectory of bicycling conditions in Albuquerque, though not as positive as they had been in past Bike to Wherever/ Bike to Work Day surveys. Reasons that respondents felt positive about bicycling in Albuquerque included the expanding network of on-street bikeways, a high-quality network of paved multi-use trails, pleasant weather, and a growing culture of bicycling.
- **Most trips by bicycle are for recreational purposes:** The majority of recent bicycling trips among survey respondents were for recreational purposes, though many respondents indicated a desire to bike for more utilitarian purposes if quality bikeways were available. These findings

are consistent with previous surveys conducted for Bike to Wherever Day and Bike to Work Day.

- **Safety and personal security are major concerns while bicycling:** Survey respondents emphasized safety as their highest priority, which is consistent with previous surveys. Major sources of safety concerns included excessive speeding and the presence of larger vehicles on the road. While paved multi-use trails remain popular places to ride, several participants voiced concerns over personal security along some trail segments, including the North Diversion Channel.
- **Bicyclists prefer greater physical separation from motor vehicles:** When asked to rate different bikeway facility types, respondents' level of comfort rose significantly along bikeways with greater physical and spatial separation from motor vehicles.
- **Bikeway travel is limited by natural and human-made barriers:** Limited bridges and crossings of the Rio Grande, Interstates 25 and 40, and the railroad tracks near Downtown affect access to key destinations and the ability to complete trips by bicycle. Participants asked that improved facilities along key crossings be prioritized.
- **Major street crossings are major barriers to bicycling:** Crossing major streets, both at signalized intersections – where bike lanes are not always continuous and

require traveling in mixed traffic – and at unsignalized or uncontrolled intersections where wide roads and fast-moving traffic create hazardous conditions. Several participants expressed a desire for better bike detection at signalized crossings.

- **Plan recommendations should include improvements to existing facilities:** Participants noted that many existing bikeways could be improved further and that some bikeways classified as low stress in the Level of Traffic Stress analysis do not always feel low stress, particularly where motorists regularly travel above the posted speed limits.
- **Neighborhood streets can be quality bikeways:** Many participants prefer riding along quiet neighborhood streets and indicated that Bike Route signage is useful. For bike routes and bike boulevards to be low stress, participants requested enhanced crossings and other features beyond signage and pavement markings.
- **Greater integration of modes is desired:** Participants expressed a desire for greater integration between bicycling and transit, including more bike parking at transit stops and station areas and making it easier to bring bikes on buses.
- **There is a need to manage potential conflicts associated with e-bikes:** Participants and stakeholders highlighted the need



to both create opportunities for a greater range of users and to manage conflicts among bicyclist types, including the use of e-bikes on paved multi-use trails and on-street bikeways.

## Phases of Outreach

The planning process included three outreach phases designed to generate input on general barriers and challenges to bicycling in Albuquerque, as well as specific locations for improvements and project priorities. Table 5 provides an overview of the phases of engagement, the information the Project Team shared with the public, and the input gathered to inform the planning process. Specific outreach strategies are described in the following section. Phase 1 of engagement focused on understanding bicyclist user needs and general priorities. Outreach events aligned with the nationwide Bike Month and with the City’s Bike to Wherever Day event (previously Bike to Work Day) on May 19, 2023. During these events, the Project Team promoted the plan and encouraged the public to fill out the annual Bike to Wherever Day survey and identify locations for potential improvements.

The launch of Phase 2 aligned with Bike Thru Burque Week in October 2023 and the CiQlovía open streets festival. Outreach events featured a survey map where community members could indicate which potential projects they think should be prioritized.

Phase 3 centered around the release of the plan for public review before the draft plan was brought before the Environmental Planning Commission for review and recommendation to City Council for final approval.

Table 5. Phases of Public Outreach

Phase	Information Shared	Input Gathered
1. Needs Assessment (May-June 2023)	<ul style="list-style-type: none"> <li>Existing conditions including Level of Traffic Stress (LTS) analysis</li> </ul>	<ul style="list-style-type: none"> <li>Challenges and opportunities for biking in Albuquerque</li> <li>Critical factors for prioritization</li> <li>Preferred facility types</li> <li>Priority corridors for improvements</li> </ul>
2. Project Priorities	<ul style="list-style-type: none"> <li>Proposed bikeway and paved trail network, including facility types, implementation timeline, and magnitude of costs</li> </ul>	<ul style="list-style-type: none"> <li>Bikeway projects that community members believe should be prioritized</li> </ul>
3. Plan Review	<ul style="list-style-type: none"> <li>Full draft of the 2024 Plan, including network components and policy recommendations</li> </ul>	<ul style="list-style-type: none"> <li>General feedback on 2024 Plan contents</li> </ul>





## Public Engagement Strategies

Engagement strategies included a combination of in-person and virtual events and activities. Online advertising and marketing efforts about opportunities for input took place in coordination with Bike to Wherever Day in May 2023 and Bike Thru Burque Week in October 2023, to leverage well-established programs and activities and to increase awareness of the plan development process. Coordinated efforts included plan promotion via Bike Thru Burque social media channels, event webpages, and email lists.

### Project Website

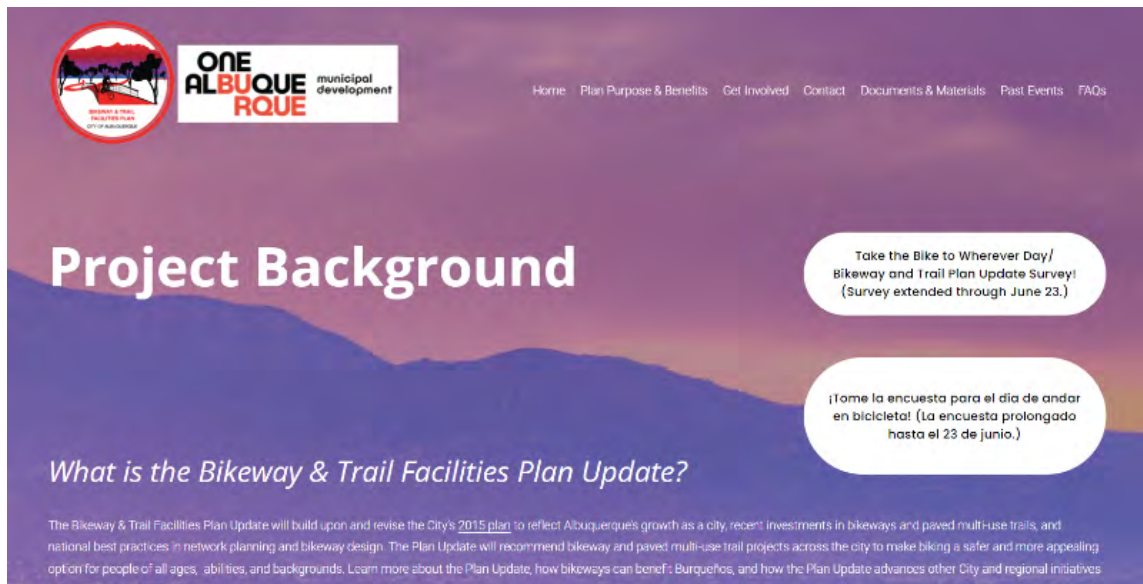
A dedicated project website ([www.abqbikeplan.com](http://www.abqbikeplan.com)) hosted information about the project, including links to public meetings, draft products such as the [Existing Conditions Story Map](#), surveys, and interactive maps. Key elements of the project website, including both surveys, were available in Spanish.



Logo for 2023 Bike Thru Burque Week



Logo for 2023 Bike to Wherever Day



Homepage for Bikeway and Trail Facilities Plan website



## Stakeholder Outreach

Stakeholder outreach included two formal working groups convened specifically for the 2024 Plan and formal presentations to standing city and regional committees.

### Working Groups

The planning process convened two working groups: the Technical Working Group (TWG) comprised of staff from various City departments and peer agencies and the Stakeholder Advisory Committee (SAC) comprised of community members, external stakeholders, and bicycling advocates. Both groups provided input on bicycling-related needs, the plan development methodology, components of project prioritization, draft deliverables, and related implementation strategies.

The Project Team held four meetings with each group, including a joint visioning session in early 2023 to introduce this effort and to consider potential plan priorities. In addition to the formal meetings, the Project Team held a series of four network design workshops with select members of the TWG in Summer 2023 to review and develop the proposed bikeway network.

Table 6. Composition of the Technical Working Group and Stakeholder Advisory Committee

Technical Working Group	Stakeholder Advisory Committee
<b>City departments</b> <ul style="list-style-type: none"> <li>• Municipal Development</li> <li>• Parks and Recreation</li> <li>• Planning</li> <li>• Council Services</li> <li>• ABQ RIDE</li> <li>• Sustainability</li> <li>• Senior Affairs</li> </ul> <b>Peer agencies</b> <ul style="list-style-type: none"> <li>• Bernalillo County</li> <li>• Mid-Region Council of Governments</li> </ul>	<b>External agencies</b> <ul style="list-style-type: none"> <li>• Albuquerque Public Schools</li> <li>• Sandia National Labs</li> <li>• UNM Parking &amp; Transportation</li> </ul> <b>City advisory committee representatives</b> <ul style="list-style-type: none"> <li>• Greater Albuquerque Active Transportation Committee</li> <li>• Greater Albuquerque Recreational Trails Committee</li> <li>• Transit Advisory Board</li> </ul> <b>Community organizations</b> <ul style="list-style-type: none"> <li>• Bike ABQ</li> <li>• Duke City Wheelmen</li> <li>• Together 4 Brothers</li> </ul> <b>Other</b> <ul style="list-style-type: none"> <li>• Private citizens and advocates</li> </ul>



City and Regional Boards and Committees

The Project Team gave regular updates to key City and regional boards and committees at their scheduled monthly meetings. Table 7 describes the role and composition of these boards and committees. Presentations to the committees coincided with the three plan outreach phases to increase awareness and encourage participation.

Community Meetings

The first two phases of engagement included both an in-person public meeting and a virtual public meeting; the virtual public meetings were recorded and posted online. Meeting content engaged the public on topics such as the vision and goals of the plan, solicited input on the proposed network and projects for prioritization, and informed the public of next steps for implementation.

In-Person Pop-Up Events

In addition to traditional public meetings, the Project Team hosted a series of in-person pop-up events, many of which coincided with Bike to Wherever Day and Bike Thru Burque Week programs and activities to increase participation rates. Each pop-up event included promotional materials, paper surveys, and hard copies of map materials.

Table 7. Boards and Committees Involved in Plan Outreach Efforts

Entity	Role of Committee
Greater Albuquerque Active Transportation Committee (GAATC)	<p><b>Description/Role:</b> Advises the City on the needs of people who walk, bike, use mobility devices, and other people-powered transportation options.</p> <p><b>Participants:</b> Volunteer community members; staff from various City departments and peer agencies attend to provide reports.</p>
Greater Albuquerque Recreational Trails Committee (GARTC)	<p><b>Description/Role:</b> Supports, encourages, and advises agencies to set priorities related to the development of new trails and maintenance of existing trails throughout the region.</p> <p><b>Participants:</b> Volunteer community members; staff from various City departments and peer agencies attend to provide reports.</p>
MRCOG Active Transportation Committee	<p><b>Description/Role:</b> Brings active transportation modes into the larger discussion of transportation issues in the Albuquerque Metropolitan Planning Area and discusses and reviews regional plans and projects.</p> <p><b>Participants:</b> Staff from MRCOG agencies across the region, including the City of Albuquerque; interested community members.</p>



Phase 2 outreach overlapped with several public meetings for the City’s Comprehensive Plan Update where City staff provided information about the 2024 Plan, including the project priorities survey.





## Surveys and Interactive Maps

The Project Team utilized surveys and interactive maps in phases 1 and 2 to solicit location-based feedback from the public. More information about these surveys, including detailed summaries of findings, can be found in **Appendix B: Community Survey Summary** and **Appendix C: Project Priorities Survey Map Results**. The Key Takeaways section at the end of this chapter summarizes highlights from the general input survey.

### Bike to Wherever Day Survey and Interactive Map

A general input community survey during phase 1 gathered feedback about general bicycling conditions, personal habits, and preferred facility types. The survey leveraged and expanded upon the annual Bike to Wherever Day survey to include an interactive map with components and questions particularly relevant to the 2024 Plan. The survey was open from May 1 to June 16, 2023, and received a total of 679 responses. The interactive map collected data on the following topics:

- Destinations that respondents would like to bike to
- Existing bikeways where respondents feel unsafe
- Unsafe crossing locations
- Locations where new facilities are desired



*Interactive map component of the Bike to Wherever Day Survey*





Figure 10. Destinations People Would Like to Bike To, Bike to Wherever Day Survey

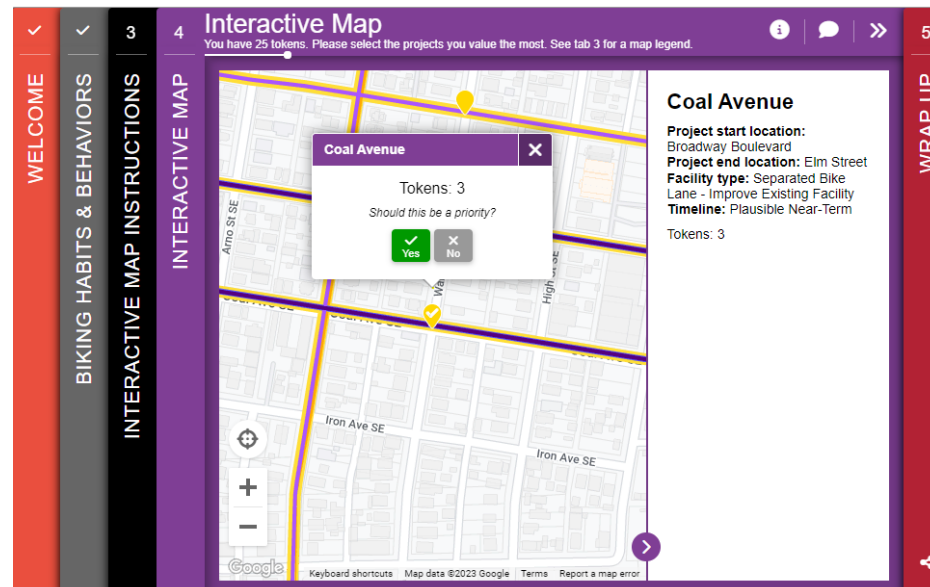
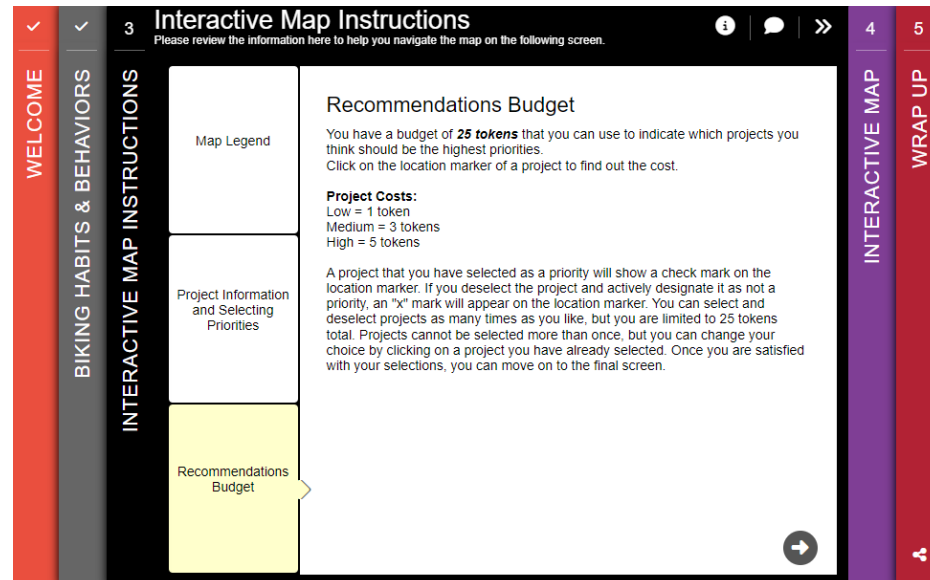




## Project Priorities Map Survey

The project priorities map survey was available online from October 21 through November 30, 2023, as part of phase 2 of engagement and provided participants an opportunity to view the proposed bikeways and their estimated timeframe for implementation. The interactive survey map included an exercise in which participants were given a “budget” of virtual tokens and asked to select which potential bikeway projects to prioritize. Projects had a “cost” of one, three, or five tokens to represent the technical feasibility and complexity of a proposed improvement.

A total of 662 individuals participated in the project priorities survey map. The Project Team incorporated results into project prioritization as a community input criterion in the bikeway evaluation process. **Appendix C: Project Priority Survey Map Results** provides details on the most frequently selected priority projects.



*Instructions tab and interactive map component of the Project Priorities Survey Map*





# 4. Facility Types: Definitions and Considerations

## Purpose

This document defines various on and off-street bikeway facilities based on current design guidance and their intended application across the City of Albuquerque. The 2024 Bikeway and Trail Facilities Plan did not update information related to unpaved trails, though unpaved trails are defined and described later in this section. As facility types are described in multiple City of Albuquerque planning documents and best practices in bikeway facility design are constantly evolving, these definitions ensure a common understanding of terms and establish the appropriate contexts in which different bikeway facility types may be implemented as part of the 2024 Plan.

### Note on Unpaved Trails

See **Appendix H: Additional Considerations for Multi-Use Trails** for discussion on unpaved trails for equestrians, hiking, and mountain biking. These trails primarily serve recreational purposes and are not evaluated in the 2024 Plan.

## Design Guidance

Information on appropriate contexts for the application of bikeway facility types is derived from the Federal Highway Administration (FHWA) *Bikeway Selection Guide* and reflects the bikeway infrastructure needed to achieve low-stress conditions for people biking. Design guidance and standards are taken from the City of Albuquerque *Development Process Manual* (DPM) unless otherwise noted.

Note: The 2024 Plan recommends revisions to the DPM based on emerging national best practices. These updates would impact desired widths and other elements of bikeway facility design.

## Identifying Appropriate Facility Types

This section is intended as a reference and resource for identifying appropriate bikeway facility types and informs the recommendations of the 2024 Plan. Bikeway facilities should adhere to the FHWA Bikeway Selection Guide to the greatest extent possible (see Figure 11).





## LOW-VOLUME SHARED STREETS

- Bike Boulevard
- Enhanced Bike Route

## ON-STREET FACILITIES

- Bike Lanes
- Buffered Bike Lanes
- Separated/Protected Bike Lanes

## OFF-STREET FACILITIES

- Paved Multi-Use Trails
- Sidepaths

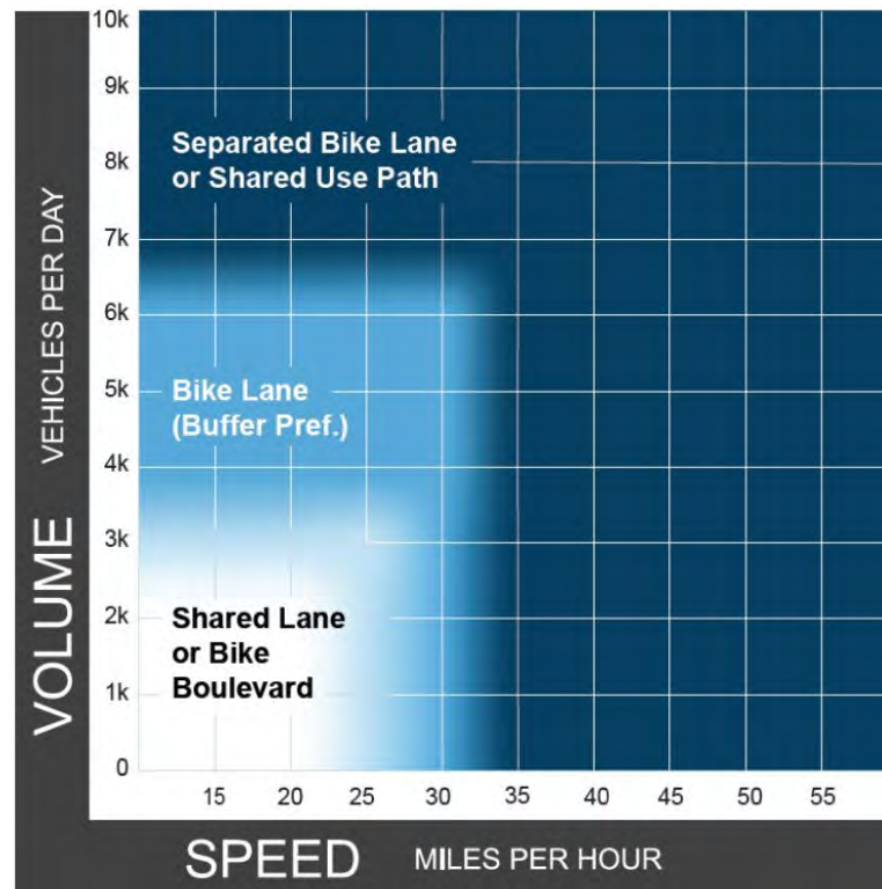
## CONTEXT-SPECIFIC TREATMENTS

- Two-Way Cycle Track
- Raised Bike Lanes

## RECREATIONAL TRAILS

- Unpaved Multi-Use Trails

Figure 11. Preferred Bikeway Facility Type Based on Roadway Speed and Volume



Source: FHWA Bikeway Selection Guide

Figure 11 illustrates how additional separation between where people driving and bicycling is needed as vehicle volumes and speeds increase what facility types are appropriate for all users, based on the volume of motor vehicles and the actual speeds of motor vehicles. The graph is intended to minimize the level of traffic stress (LTS) experienced by all users, regardless of volume and speed conditions, and ability levels. The lightest color in the lower left shows that bike boulevards and bike routes are appropriate facility types along streets with low traffic volumes and vehicle speeds. As traffic volumes and speeds increase (darkest colors), separated facilities such as multimodal multi-use trails and sidepaths are more appropriate. In addition, this graph shows that, with some exceptions such as crossing treatments for bike boulevards, lowest-stress conditions can be handled in the short term with the lowest-cost facilities while higher stress conditions require more long term and capital-intensive facilities.



# Bike Boulevard

Bike boulevards are low-stress corridors with slow speeds and low vehicle volumes that feature traffic calming elements and enhanced crossing treatments to reduce through vehicle traffic and manage vehicle speeds.

Though people biking share space with motor vehicles, the low-stress conditions ensure these bikeways appeal to people biking of all ages and abilities.

## Appropriate Contexts

Primarily residential streets that run parallel to major roads and have posted speeds of 25 mph or lower before implementation.

Per the DPM, the target daily vehicle volume is 1,000 or below after implementation; 1,000–2,000 vehicles per day is acceptable.

Narrower streets (under 40 feet wide) are preferable for bike boulevards as wider streets require additional treatments to encourage slower vehicle speeds.

## Posted Speeds

20 mph or lower after implementation

## Considerations and Design Guidance

Per the DPM and the *Bike Boulevard Toolkit*, typical features include branded signage and pavement markings, design elements to narrow the roadway (e.g. diverters or striped on-street parking) and reduce traffic (e.g. closed medians at major intersections), and enhanced street crossings to remove barriers to longer-distance travel.

See the City of Albuquerque *Bike Boulevard Toolkit* for detailed design considerations and the City of Albuquerque *Bicycle and Trail Crossing Guide* for appropriate crossing treatments at major intersections.



Silver Ave



Girard Blvd





# Enhanced Bike Route

Enhanced bike routes are shared streets that utilize signage and pavement markings (i.e. sharrows) to indicate that bicyclists may be present and to help bicyclists connect to other facilities and local destinations.

Today, bike routes are a common form of bikeway throughout Albuquerque and are typically designated through basic signage along local streets with low volumes of vehicle traffic. However, conditions vary in terms of treatments and traffic volumes and speeds and not all existing bike routes meet the criteria described below. Many existing bike routes are proposed as bike boulevards or enhanced bike routes in the 2024 Plan.

## Appropriate Contexts

Low-volume (generally under 2,000 vehicles per day) and low-speed streets, including residential streets.

Enhanced bike routes typically provide short connections to local destinations or link other facilities to one another and do not involve crossing treatments at intersections with major streets.

## Posted Speeds

25 mph or lower

## Considerations and Design Guidance

Enhanced bike routes share many of the characteristics of bike boulevards, including frequent pavement markings and traffic calming features to reduce vehicle speeds and increase bicyclist user comfort.

Per the DPM, bike route designations may be used selectively on higher-volume roads where a bikeway connection is desired but right-of-way is constrained and bike lanes that meet the minimum design standards are not feasible.



Marquette Ave

*Marquette Avenue is an existing bike route. Additional pavement markings and traffic calming techniques are desired to create an enhanced bike route.*



# Bike Lanes

Bike lanes utilize striping to delineate a separate, dedicated space for people biking. Standard bike lanes are typically located at the road edge and do not provide additional vertical or horizontal separation from vehicular travel lanes.

## Appropriate Contexts

Collector and arterial streets with moderate speeds and volumes. Per the FHWA Bikeway Selection Guide, bike lanes are best suited for streets with traffic volumes under 6,500 vehicles per day.

On local streets with wide pavement sections (i.e., at least 40 feet wide), bike lanes may be an appropriate alternative to bike boulevards.

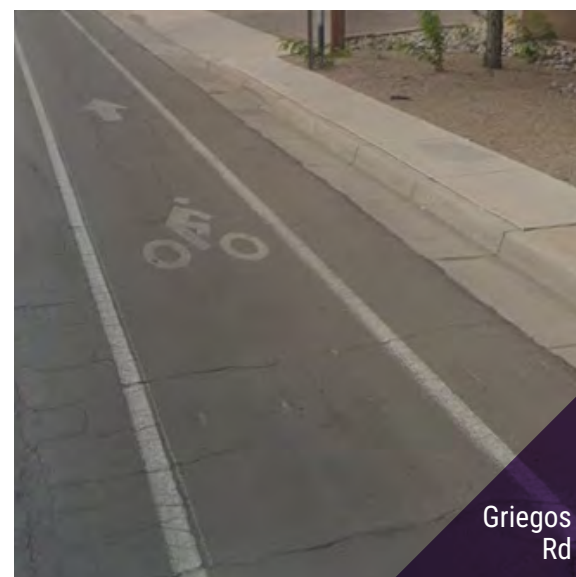
## Posted Speeds

30 mph or lower

## Considerations and Design Guidance

Per the DPM, bike lanes should be a minimum of 5 feet wide, with additional width (up to 6.5 feet) desired as space permits. The gutter pan is not included in the bike lane width.

Bike lanes may be implemented on existing roadways by narrowing vehicle travel lanes, medians, and/or parking lanes; reducing the number of vehicle travel lanes; and/or reconsidering the need for on-street parking.



# Buffered Bike Lanes

Buffered bike lanes are bikeways with striped, horizontal space between the bike lane and the adjacent vehicle travel lane, which provides additional separation between bicyclists and moving vehicle traffic.

## Appropriate Contexts

Buffers are appropriate for all bike lanes as space permits. Buffers are particularly critical for increasing user comfort level as vehicle speeds and traffic volumes increase.

Per the FHWA Bikeway Selection Guide, buffered bike lanes are best suited for streets with traffic volumes under 6,500 vehicles per day (the same threshold recommended for standard bike lanes).

## Posted Speeds

35 mph or lower (DPM)

30 mph or lower (FHWA Bikeway Selection Guide)

## Considerations and Design Guidance

Per the DPM, buffers may range from 1–3 feet, depending on the available roadway space, with wider buffers preferred. Buffers that are 1.5 feet or less may be comprised of parallel striped lines. Wider buffers should feature cross hatching.

The term buffered bike lanes specifically refers to separation from moving vehicle traffic, though buffers may also be applied on the inside of a bike lane to create separation from parked vehicles or to improve sight lines where walls or barriers are present on the roadway edge.



Coal  
Ave



San  
Pedro Dr





# Separated Bike Lanes

Separated bike lanes, also known as protected bike lanes, are a form of buffered bike lane located at street level that features some form of vertical separation from motor vehicles.

## Appropriate Contexts

Vertical separation may be considered for all buffered bike lanes, depending on the roadway conditions, and is desirable for ensuring user comfort on roads with traffic volumes over 6,500 vehicles per day, per the FHWA Bikeway Selection Guide.

## Posted Speeds

30 mph or higher

Vertical separation is critical for ensuring user comfort level on roads with operating speeds of 35 mph or greater, per the FHWA Bikeway Selection Guide.

## Considerations and Design Guidance

Vertical elements may include flex posts, parking stops, curbs, or other form of physical separation.

Per the DPM, separated bike lanes should be a minimum width of 6.5 feet with a 3-foot buffer for the vertical element.

Vertical separation is most appropriate along corridors with limited numbers of driveways to ensure more continuous barriers.



Austin,  
Texas



# Paved Multi-Use Trails

Paved multi-use trails are off-street facilities in their own right-of-way that are shared with people walking, jogging, and rolling.

## **Appropriate Contexts**

Multi-use trails are typically located in natural settings or along drainage channels or arroyos.

## **Posted Speeds**

N/A

## **Considerations and Design Guidance**

DPM guidance calls for a minimum width of 10 feet, with 12 feet recommended and 14 feet desired for high-use areas and long-distance routes. Additional space is needed for shoulders and frontages against private property.

Consult the AASHTO Guide for the Development of Bicycle Facilities for detailed design guidance.



# Sidepaths

Paved multi-use sidepaths are two-way, off-street facilities that are shared among people biking, walking, and rolling. Sidepaths are located within the public street right-of-way on the outside of the curb. Because sidepaths are located at curb level, they provide vertical separation between people biking and motor vehicle traffic.

## Appropriate Contexts

Sidepaths are appropriate on streets with sufficient space behind the curb. Sidepaths are most appropriate on streets with limited intersections and driveways because drivers making turns often do not account for bicyclists traveling in both directions at these conflict points.

Vertical separation (achieved through sidepaths at curb level) and buffers are critical for ensuring user comfort level on roads with operating speeds of 35 mph or greater, per the FHWA Bikeway Selection Guide.

## Posted Speeds

30 mph or higher

## Considerations and Design Guidance

Per the DPM, sidepaths are designed using the same width and engineering standards as

paved multi-use trails and should be demarcated with a dashed yellow centerline on asphalt pavement. Wider sidepaths are desired to the greatest extent possible to allow for both people walking and biking to comfortably pass and to increase overall capacity of the facility.

Sidepaths should be offset from the curb and the property line. These buffers create spatial separation and ensure that people biking feel comfortable using the full extent of the sidepath. Landscaping and street trees are desired for shade as long as they do not impede visibility approaching intersections and site access points.

Sidepaths may take the place of sidewalks and can complement on-street bike lanes to provide options for different bicyclist user types. Conflicts at driveways and intersections must be accounted for during facility design.



Arroyo  
Vista Blvd



McMahon  
Blvd





## Raised Bike Lanes

Raised bike lanes are one-way facilities that are located at sidewalk level or slightly elevated from the roadway to provide vertical separation from moving traffic.

Raised bike lanes may have a buffer and/or a vertical element in between the bikeway and the roadway.

### **Appropriate Contexts**

Roads with high speeds and traffic volumes (above 6,500 vehicles per day).

Can be an appropriate treatment where sufficient right-of-way is available outside of the roadway and/or near transit stops to manage conflicts among buses, pedestrians, and bicyclists.

### **Posted Speeds**

30 mph or higher

### **Considerations and Design Guidance**

The NACTO Urban Bikeway Design Guide recommends that one-way raised bike lanes be 6.5 feet wide, with a 1.5-foot buffer next to a vehicle travel lane, or a 3-foot buffer next to a parking lane.

If the bike lane is level with the sidewalk, a textured material or colored pavement should distinguish spaces for people walking and biking.

Raised bike lanes are most appropriate on streets with few driveways and conflicts associated with turning movements. The 2024 Plan does not recommend raised bike lanes in any specific locations, though these facilities may be considered during final design on a case-by-case basis.

## Two-Way Cycle Track

Cycle tracks are fully separated bikeway facilities that support people biking in opposite directions. Cycle tracks can be located at sidewalk-level or at the same level as vehicle travel lanes if there is a form of physical separation.

### **Appropriate Contexts**

Generally appropriate for short connections between segments of on-street bikeways or sidepaths and streets where there is not enough room for separated bike lanes on both sides of the street.

Locations where high volumes of both bicyclists and pedestrians are anticipated and there is a strong desire and ample ROW to manage conflicts by providing dedicated spaces for people walking and biking on separate facilities.

### **Posted Speeds**

30 mph or higher

### **Considerations and Design Guidance**

The NACTO Urban Bikeway Design Guide recommends a minimum facility width of 12 feet, with a 3-foot buffer between the bike lane and parked vehicles. Some form of vertical separation should be placed in the buffer zone.

Cycle tracks are typically located on the road edge rather than the median. Additional intersection treatments needed.





# Unpaved Trails

Unpaved trails typically accommodate but are not limited to (unless posted and signed) equestrians, mountain bikers, hikers, joggers, and people walking who may prefer a soft walking surface (stabilized unpaved trails may also be suitable for wheelchair users depending on their ability). Unpaved multi-use trails are typically used for recreational purposes.

The 2024 Plan did not update information related to unpaved trails. For appropriate contexts and design considerations and guidance, see **Appendix H: Additional Considerations for Multi-Use Trails**.







# 5. Proposed Bikeways and Trails Network

## Chapter Overview

This chapter outlines the considerations that were applied in developing the proposed bikeways and trails network and provides an overview of the strategies that may be used by the City of Albuquerque to develop individual bikeway and trail improvement projects. Additional details on project priorities and how projects may be implemented can be found in **Chapter 6: Implementation and Recommendations**. See the [Proposed Network Story Map](#) and **Appendix F: Priority Project Tables** for detailed information on proposed bikeway and trail projects.

## Components of the Proposed Bikeways and Trails Network

### *On-street Bikeways and Paved Multi-use Trails*

The 2024 Plan identifies new projects and enhancements to existing bikeways and trails to complement the existing network of low-stress bikeways. This collection of improvements will ultimately form a robust and well-connected city-wide network that increases the range of transportation options, serves the daily needs of all Albuquerque community members, and provides access to major destinations. Table 8 summarizes the components of the proposed bikeways and trails network.

Figure 12 depicts the full network of existing and proposed on-street bikeways and paved multi-use trail facilities, including projects that are considered both plausible near term and long term. Altogether, the 2024 Plan proposes 385 miles of new or enhanced bikeways. See Table 9 for mileage of new and enhanced bikeways and trails by facility type.





Table 8. Components of the Proposed Bikeways and Trails Network

Network Component	Description
Existing Bikeways and Trails	<b>Existing facilities</b> that provide low stress conditions for people biking (LTS 1 or 2). Projects are not generally proposed on these bikeways.
Proposed Projects	<p><b>Improvements to existing facilities</b>, including upgrades to create lower-stress facility types and the implementation of enhanced crossings – based on the City’s <i>Bicycle and Trail Crossings Guide</i> – where paved multi-use trails and bike boulevards intersect with major streets.</p> <p><b>New on-street bikeways and paved multi-use trails</b>, including a range of facility types. Proposed projects draw from previous plans and studies, public and stakeholder input on desired routes, and an analysis of street conditions and desired connections, including opportunities to reconfigure streets to better accommodate bikeways.</p>

Table 9. Mileage of New or Enhanced Bikeways by Facility Type

Facility	2024 City Limits	2024 Plan Study Area
Bike Boulevard	96.3	97.0
Enhanced Bike Route	24.5	25.4
Bike Lane	33.7	37.4
Buffered Bike Lane	56.6	59.8
Separated Bike Lane	52.3	53.3
Paved Multi-Use Trail	21.4	32.5
Sidepath	74.6	79.7
Total	359.6	385.0

### Notes:

- Mileage includes new bikeways as well as enhancements to existing bikeways, including miles of roads where speed limit reductions are proposed to increase bicyclist comfort level.
- Mileage calculated in terms of street centerline miles for bike boulevards, bike lanes (all types), and enhanced bike routes.
- Total mileage calculated for sidepaths and paved multi-use trails. Many sidepath projects assume new sidepaths on both sides of the streets to provide access to destinations on opposite sides of busy roadways.
- The Study Area includes some locations outside of City limits. See Figure 2 for the extent of the 2024 Plan Study Area.



Figure 12. Proposed On-Street Bikeway and Paved Multi-Use Trail Network

### Proposed Bikeways

#### Facility Type

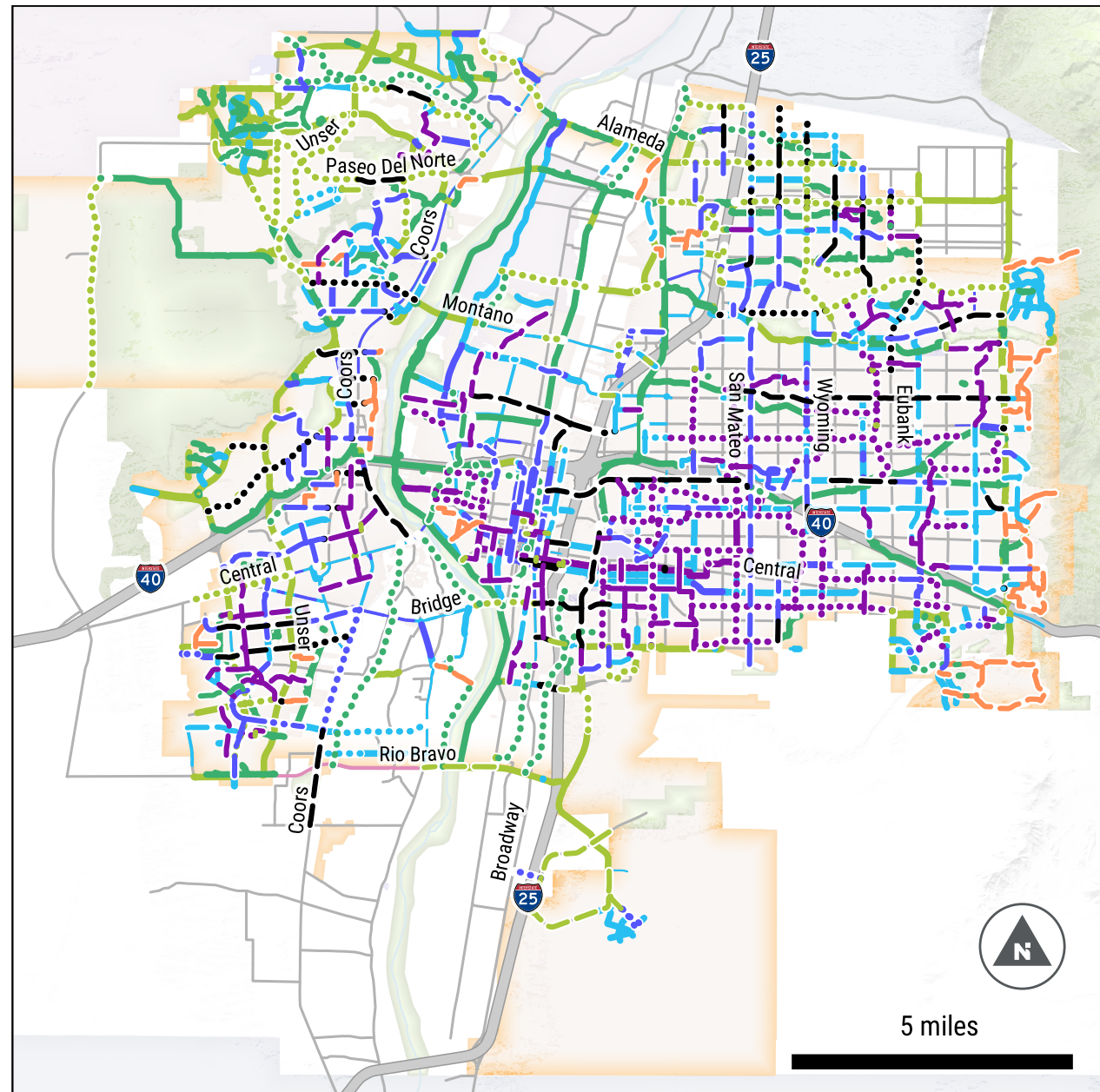
- Paved Multi-Use Trail
- Sidepath
- Bike Boulevard
- Separated Bike Lane
- Buffered Bike Lane
- Bike Lane
- Enhanced Bike Route
- Wide Shoulder

#### Potential Timeframe

- Plausible Near-Term
- ... Long-Term

#### Existing Bikeways

- Low-Stress (LTS 1 or 2)
- High-Stress (LTS 3 or 4)



# Proposed Crossing Locations

Enhanced crossings are generally proposed along paved multi-use trails and bike boulevards and ensure that neighborhoods surrounded by high-speed and high-volume roadways are not cut off from key destinations. Multiple enhanced crossings may be needed for bike boulevards to be fully implemented or for existing multi-use trails to be useful and appealing to a wider range of users.

The 2024 Plan recommends 180 enhanced crossing locations along existing or proposed bike boulevards and 76 enhanced crossings along existing or proposed multi-use trails. Two additional grade separated crossings along the North I-25 corridor are included in the 2024 Plan as these crossings were vetted and included as recommendations in the I-25 Bicycle Accessibility Study. See the LRBS for additional long-range Interstate crossing opportunities.

Specific treatment types are based on the context-sensitive guidance contained in the City of Albuquerque Bicycle and Trail Crossings Guide. See Table 10 for a summary of proposed crossings by type and Figure 13 for proposed locations for enhanced crossings. See the Enhanced Crossings section below for additional information.

Table 10. Enhanced Crossings by Type along Paved Multi-Use Trails and Bike Boulevards

Crossing Type	Paved Multi-use Trails	Bike Boulevards
Geometric Improvements	42	85
Rectangular Rapid Flashing Beacon (RRFB)	6	21
RRFB or PHB*	7	10
Pedestrian Hybrid Beacon (PHB) or HAWK	21	64
Total	76	180

*\* Per the Bicycle and Trail Crossing Guide, either crossing type would be appropriate. Further investigation is recommended for these locations.*





Figure 13. Proposed Enhanced Crossings along Bike Boulevards and Paved Multi-use Trails

### Proposed Crossings

#### Proposed Crossing Treatment

- ▲ Grade-Separated Trail Crossing
- HAWK/PHB
- HAWK/PHB or RRFB
- ▬ RRFB
- ◆ Geometric Improvements

#### Proposed Crossing Type

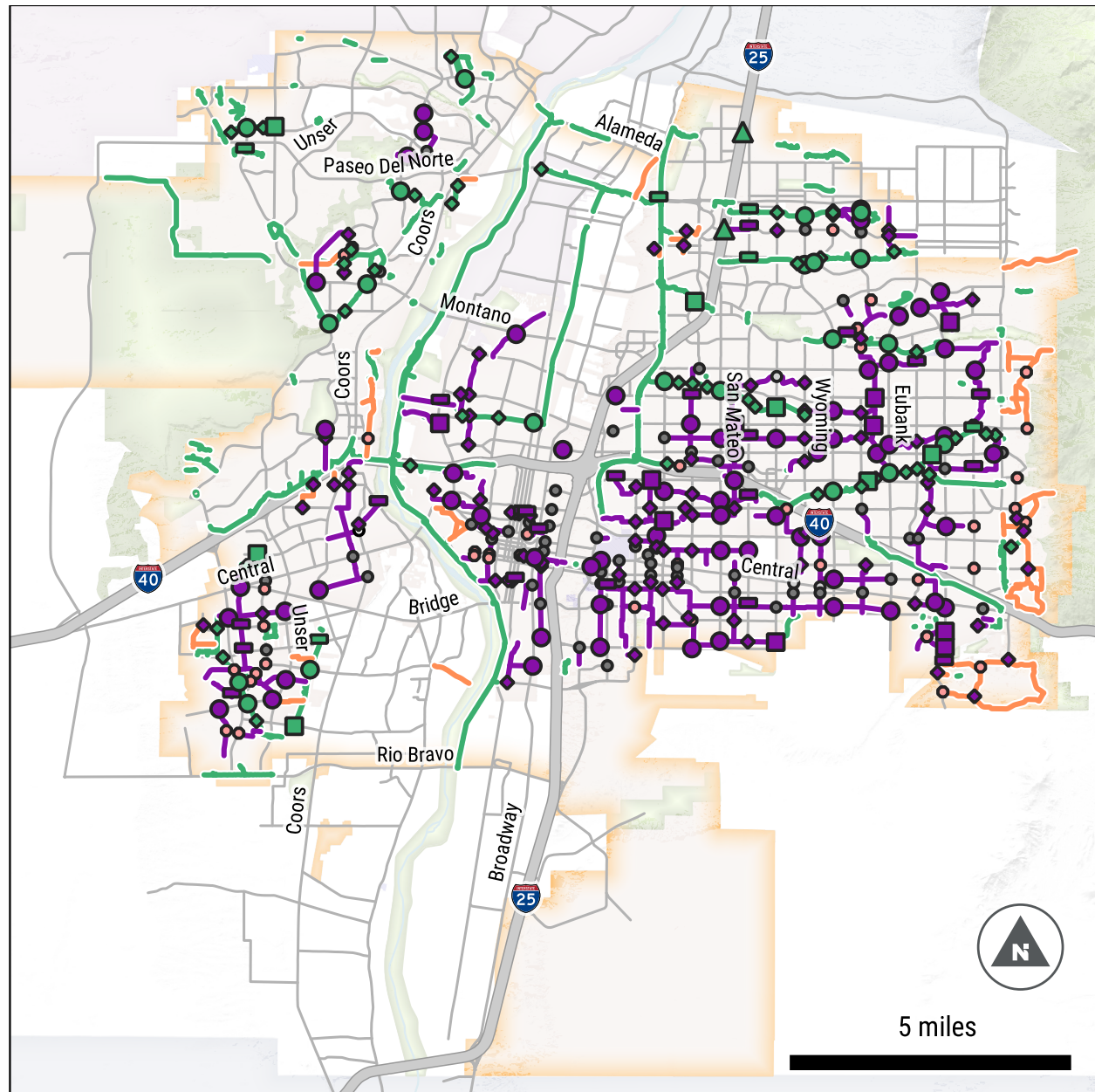
- Bike Boulevard or Enhanced Bike Route Crossing
- Enhanced Trail Crossing

#### Existing Crossing Treatment

- Traffic Signal
- HAWK/PHB
- Roundabout
- Stop-Controlled

#### Facility Type

- Existing Paved Multi-Use Trail
- Proposed Bike Boulevard
- Proposed Enhanced Bike Route



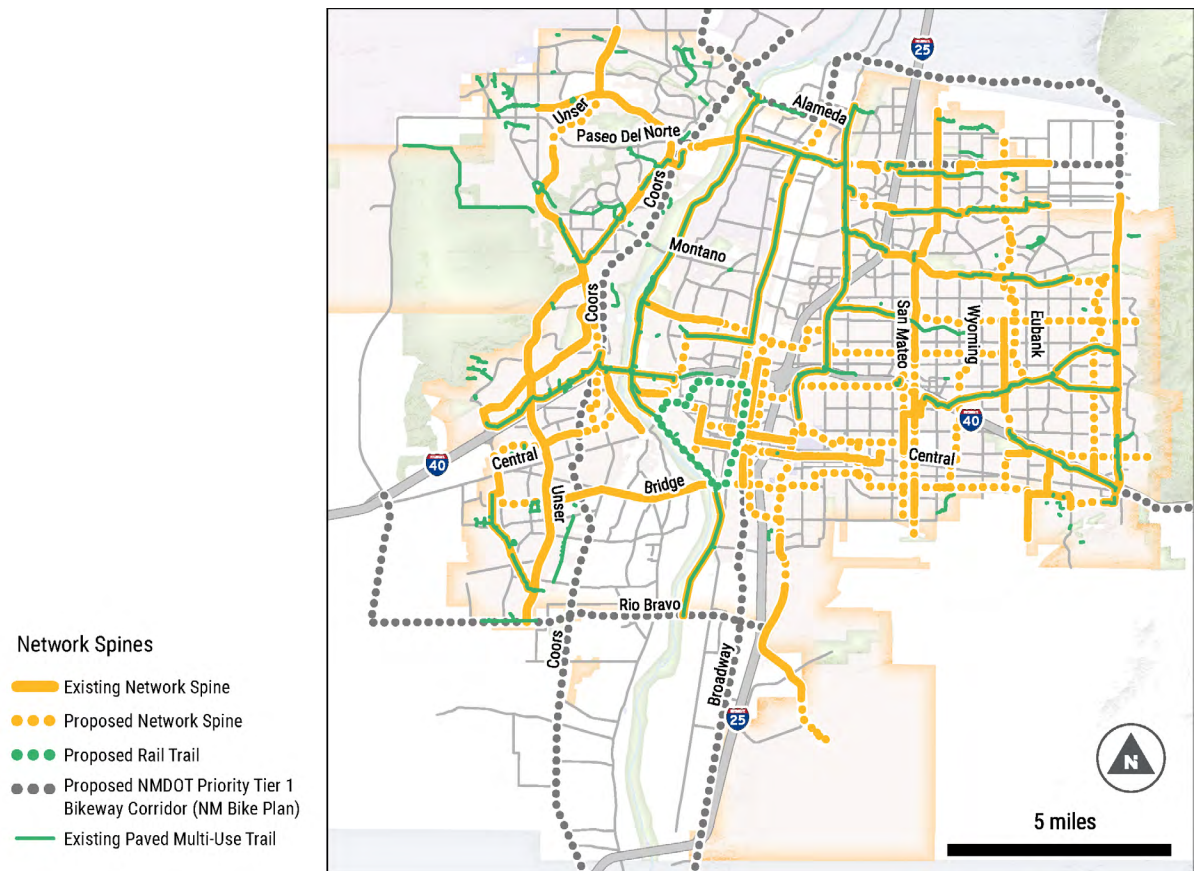
# Network Spines

## Purpose of Network Spine Designations

The 2024 Plan designates a series of corridors as network spines that support longer-distance travel by bicycle and link together key destinations and connect multiple neighborhoods. Network spines anchor the network and are distributed geographically across the city to ensure all Albuquerque residents have access to the bikeway and trail network, though not all areas of the city have the same concentration of spines. Other bikeways should tie into the spines to create as much connectivity as possible.

Spines may be a range of facility types, as long as they currently provide—or could be improved to provide—low-stress conditions. Some spines are parallel to each other to accommodate the preferences of different users and support different potential implementation timeframes. Projects along network spines are prioritized in the bikeway evaluation process. See Figure 14 for network spines, including existing and proposed bikeways. Refer to the [Proposed Network Story Map](#) for additional details.

Figure 14. Existing and Proposed Network Spines



## Candidates for Network Spines

Existing bikeways that are designated as **network spines** include:

- Major paved trails, such as the Paseo del Bosque Trail, the North Diversion Channel Trail, and east-west arroyo trails.
- Bike boulevards where enhanced crossings and traffic calming treatments are already present.
- Low-stress on-street bike lanes, such as Rio Grande Boulevard north of Candelaria Road and portions of San Pedro Drive.

**Network spines along proposed bikeways** include:

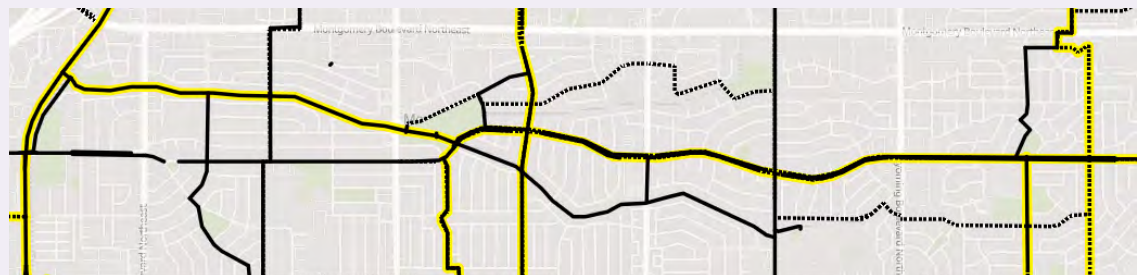
- Buffered and separated bike lanes, including connections between paved multi-use trails.
- Bike boulevards on neighborhood streets that connect to other spines or that provide long-distance connections or access to major destinations, if enhanced crossings are provided.

## Emphasis on Near-Term Improvements

Proposed bikeways that are designated as network spines feature improvements that are plausible in the near term unless no other option is available. One such example is the Bridge Boulevard-Avenida Cesar Chavez corridor where existing roadway conditions and right-of-way constraints limit the ability to implement high-quality bikeways within the existing curb lines. The corridor is nonetheless included as a spine due to its role in regional mobility and the lack of parallel river crossing options.

### Example: Comanche Road

Comanche Road is part of a network spine that features proposed separated bike lanes to the east of San Mateo Boulevard. This network spine links the Bosque Trail to Tramway Boulevard and utilizes the existing Paseo del Nordeste Trail and North Diversion Channel Trail as well as proposed bikeway improvements on Candelaria Road. Bikeway improvements along this corridor are mostly plausible in the near-term.



# Bikeway Network Development Process

## Process for Identifying Projects

Figure 15 outlines the steps taken to identify bikeway improvement projects, while Table 11 describes how the considerations applied in the identification of projects and development of the bikeways and trails network are directly connected to the goals of the 2024 Plan. Proposed projects draw from previous plans and studies, public and stakeholder input on desired routes and general preferences on facility types, and an analysis of street conditions and desired connections, including opportunities to reconfigure streets to better accommodate bikeways.

Figure 15. Bikeway Network Development Process Flow Chart

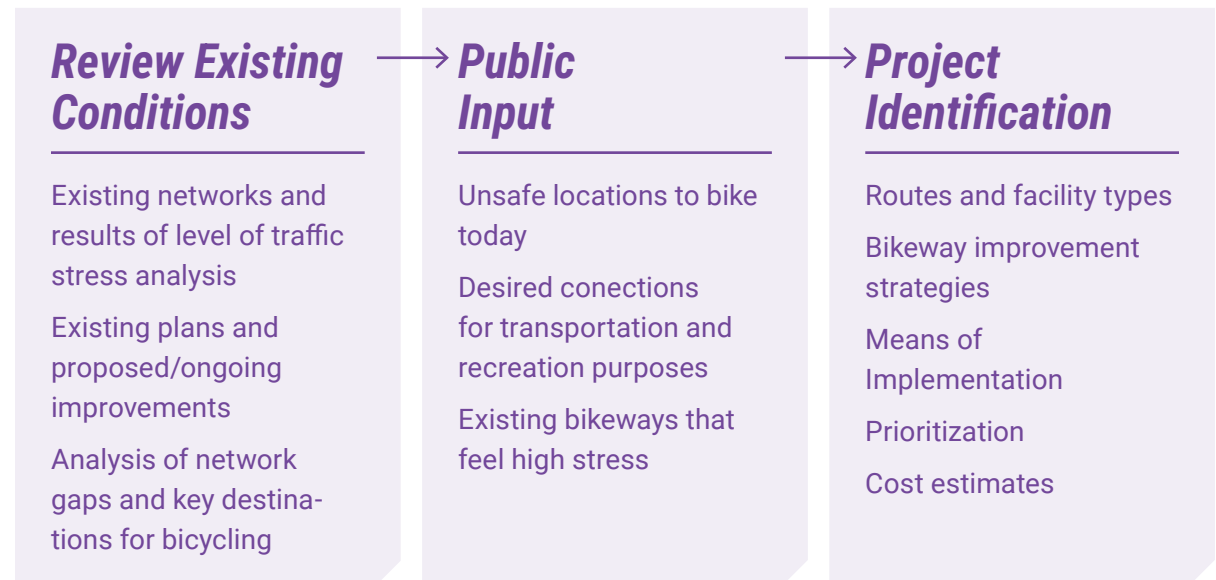


Table 11. Connection Between 2024 Plan Goals and Bikeway Network Design Principles

Goal	Network Design Principles
<b>Equitable</b>	<ul style="list-style-type: none"> <li>• Review existing facilities and prioritize projects in areas where residents are most likely to rely on bicycling as a means of transportation.</li> <li>• Prioritize projects in <b>vulnerable areas</b> that have not had bikeway investments.</li> <li>• Ensure <b>equitable access</b> to high-quality bikeway facilities across all portions of the city.</li> </ul>
<b>Connected</b>	<ul style="list-style-type: none"> <li>• <b>Fill network gaps</b> to create a denser grid and/or useful <b>neighborhood connections</b>.</li> <li>• Create a <b>well-connected network</b> that supports travel by bicycle across the city.</li> </ul>
<b>Useful</b>	<ul style="list-style-type: none"> <li>• Recommend infrastructure improvements to create a <b>robust low-stress network</b> that is appealing to people of all ages and abilities (LTS 1 or LTS 2)</li> <li>• Create networks that can be used for both <b>recreational</b> and everyday <b>transportation</b> purposes.</li> <li>• <b>Improve existing bikeways</b> to increase user comfort and encourage bicycle trips by people of all ages and abilities.</li> <li>• Provide access to <b>a range of everyday locations</b>, including activity centers (including designated Comprehensive Plan Centers), transit stops and station areas, recreational sites, and other significant community destinations.</li> </ul>
<b>Integrated</b>	<ul style="list-style-type: none"> <li>• Review and incorporate proposed projects from the <b>Long Range Bikeway System</b>, as appropriate.</li> <li>• Coordinate with partner agencies on <b>ongoing and planned projects</b> that could form components of the regional bikeways and trails network in the near term.</li> </ul>
<b>Prioritized</b>	<ul style="list-style-type: none"> <li>• Utilize a <b>data-driven process to prioritize projects</b> for implementation. See the Implementation chapter for more details.</li> </ul>
<b>Implementable</b>	<ul style="list-style-type: none"> <li>• Emphasize projects that are <b>technically feasible and plausible in the near term</b> for the City to implement.</li> </ul>





## ***Building Upon Existing Conditions Analysis***

### **Critical Review of Existing Facilities**

The 2024 Plan recognizes that a high-quality and comfortable bikeway is more than a line on the map or a sign on the side of the road. While some existing bikeways form important building blocks for a well-connected, low-stress network, the LTS analysis demonstrates that not all existing bikeways are appealing to bicyclists of all ages and abilities. Put simply, Albuquerque's existing low-stress network (i.e., bikeways with LTS 1 or 2) is limited.

The bikeway and trail network development process began with a critical review of existing facilities to identify gaps in the low-stress network and areas of Albuquerque that are underserved by bikeways and trails. Since some existing bikeways are better candidates than others for improvements, the 2024 Plan considered the following questions as part of the review of existing facilities and identification of potential enhancements:

- What type of improvements are needed for an existing bikeway to meet best practices in facility design, per the FHWA Bikeway Selection Guide?

- If an existing bikeway cannot easily be improved to meet the needs of users of all ages and abilities, is there a nearby alternative route?
- Can the City implement bikeway improvements by reconfiguring the street through lower-cost techniques within the existing curb lines, or would costlier reconstruction of the roadway be needed to install high-quality bikeways?

### **Applying Public and Stakeholder Feedback**

The 2024 Plan incorporates feedback received through public and stakeholder outreach into project identification and development of the proposed network. Key desires from public outreach that are addressed through proposed projects include:

- Providing a range of options to address the fact that different users prefer different facility types
- Creating more facilities on low-stress streets that are parallel to major corridors
- Addressing a desire for separated bikeways when facilities are located along streets with high vehicle speeds and traffic volumes
- Concern about comfort at signalized intersections along corridors with existing bike lanes that are high-stress

- The ability to cross major streets when traveling along multi-use trails and existing bike routes
- Additional bikeways in areas that have not historically had high-quality options for travel by bicycle



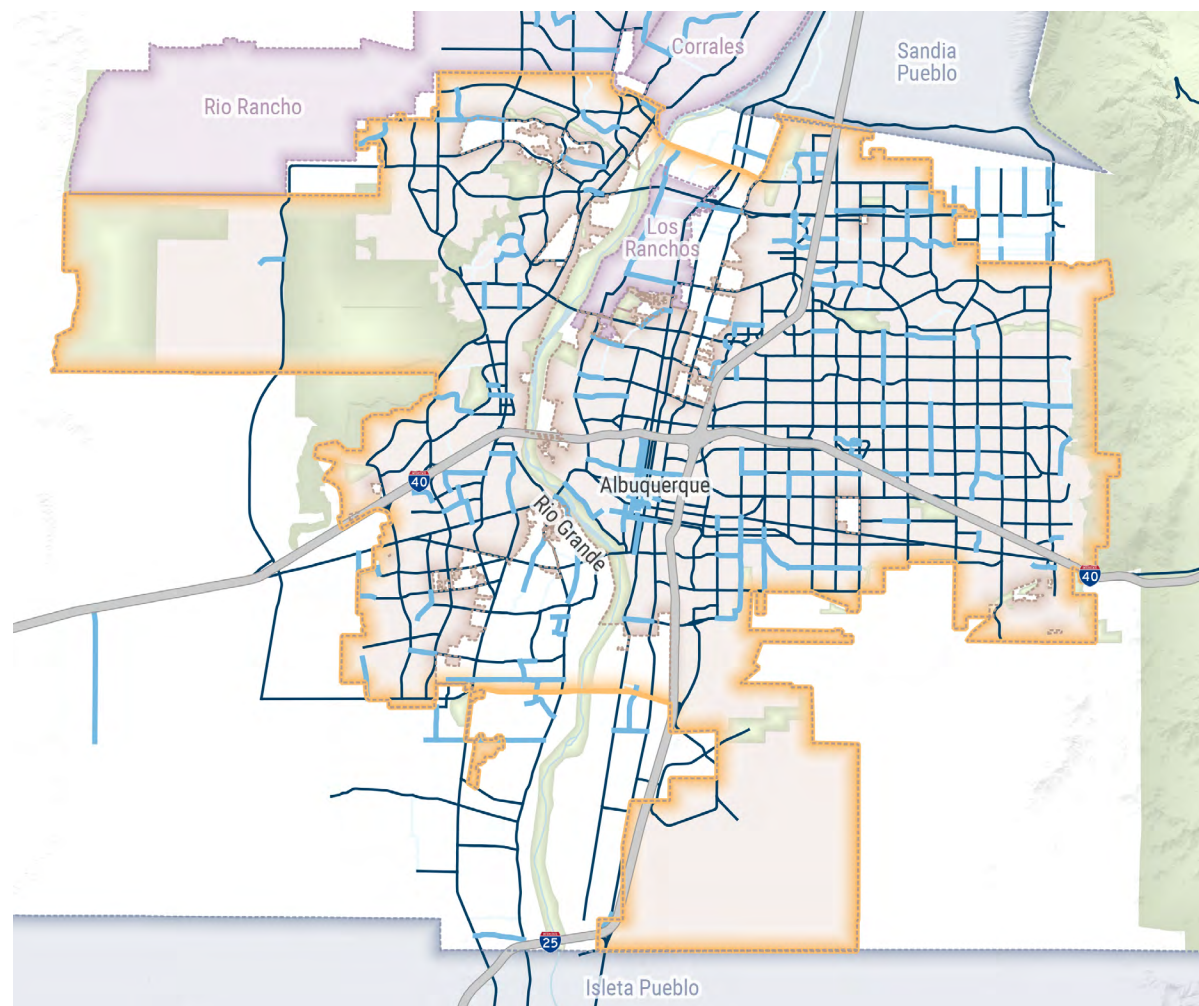


## Constraints on Achieving a Low-Stress Network

**Roadway Conditions:** The bikeway facilities that create the lowest-stress conditions may not always be practical or feasible due to current traffic conditions and roadway design. Per the FHWA *Bikeway Selection Guide*, bike lanes and buffered bike lanes best support low-stress conditions along roads with less than 7,000 vehicles per day and operating speeds of 30 MPH or lower.

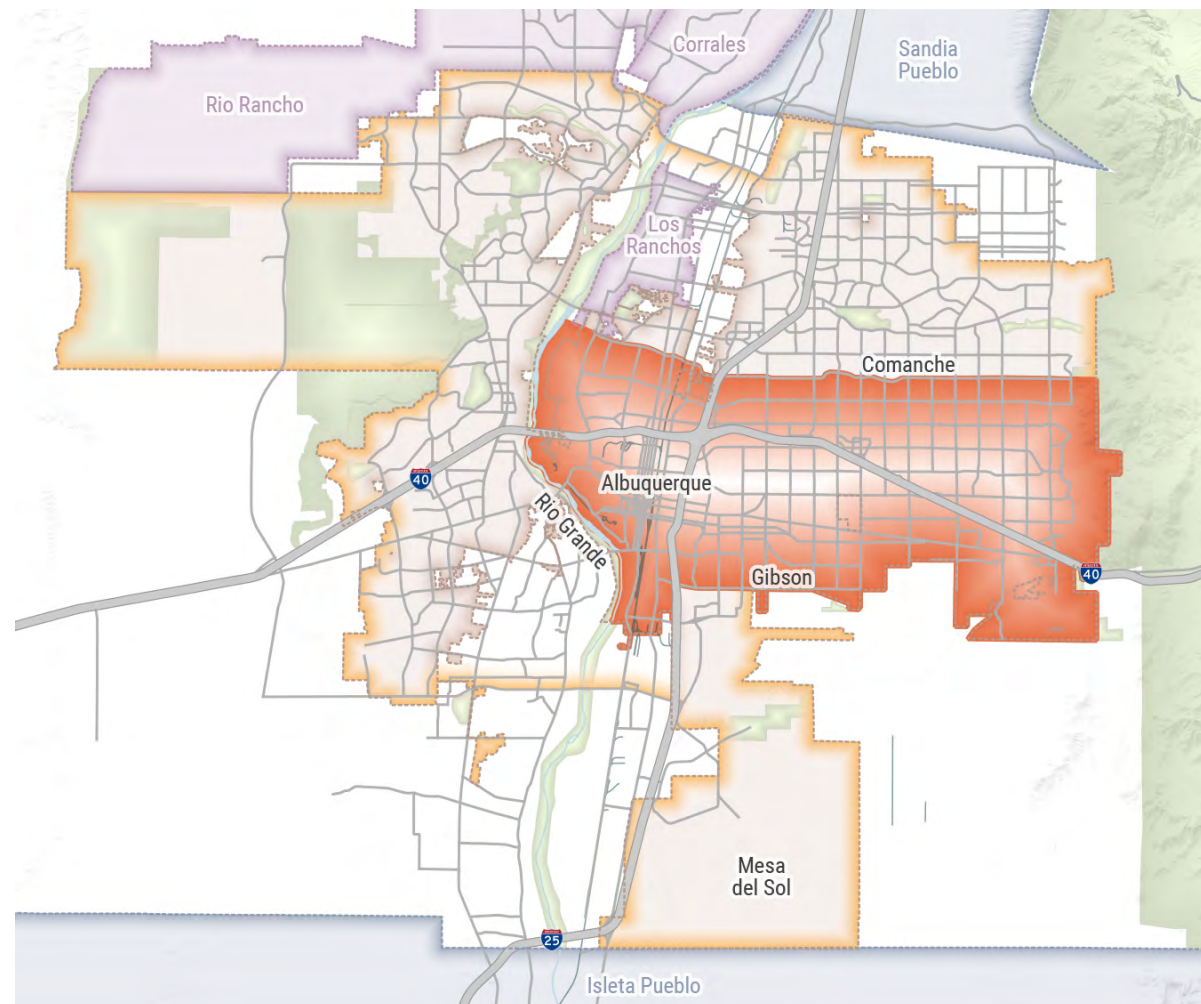
As shown in Figure 16, many major roads exceed those thresholds and would require separated bike lanes or sidepaths to support the needs of bicyclists of all ages and abilities. However, many streets in older parts of the city (i.e., constructed before around 1960) feature high numbers of driveways and limited access control and would require costly reconstruction to create the kinds of limited access conditions where separated bikeways are more feasible.

Figure 16. Streets in Albuquerque Where Separated Bikeways and Buffered Bike Lanes Would be Required to Meet Best Practices in Facility Design



**Available Right-of-Way:** Uncertainty over right-of-way is a common challenge in older parts of the city, which limits the implementation of improvements outside of existing curb lines without additional resources and engineering analysis. As a result, sidepath and crossing enhancements (e.g., pedestrian hybrid beacons) may not be plausible in the near term in some parts of the city (see Figure 17). Right-of-way west of the Rio Grande and in newer parts of the city tends to be more clearly documented, making crossing enhancements and improvements outside of the curb lines (but within City property) more plausible in the near term.

**Figure 17. Locations Where Uncertainty Over Right-of-Way Limits Near-Term Implementation of Bikeway Projects (Shaded Area)**



## Approaches to Project Development: Reconfiguration versus Reconstruction

New and enhanced bikeways require some level of change to the way space is allocated within a roadway right-of-way. These changes take two forms: **reconfiguration** and **reconstruction/new construction**. Specific techniques for implementing bikeways are discussed below in the Bikeway Improvement Strategies section.

**Reconfiguration** includes street improvements that can generally be accomplished within the existing curb lines and are generally lower cost.

- Bikeway improvement strategies that can be accomplished as part of reconfiguration include:
- Installing new or wider bike lanes
- Traffic calming techniques
- Installation of vertical barriers to existing buffered bike lanes
- Road diets and lane narrowing and the reallocation of space for other uses, including bikeways

**Reconstruction** or new construction projects include more comprehensive changes to the roadway to accommodate bikeways – including widening projects that relocate curb and gutter - and are generally higher in cost and complexity. Reconstruction projects include:

- Street widening to install paved shoulders or bikeways
- Narrowing medians to create space for on-street bikeways
- Implementing bikeway facilities outside of the existing curb-to-curb space
- Installation of sidepaths where the sidewalk would need to be replaced with a wider facility to accommodate both bicyclists and pedestrians
- New paved multi-use trails (a form of new construction)

As much as possible, the 2024 Plan identifies potential new bikeways or enhancements to existing bikeways that can be accomplished through roadway reconfiguration. Many of these reconfiguration projects can be accomplished through regular resurfacing and restriping efforts, plus additional signage or spot improvements, as needed. Additional crossings or changes to intersection geometry to better accommodate bike lanes may require additional resources. See the Means of Implementation section in **Chapter 6: Implementation and Recommendations** for additional discussion.



# Bikeway and Trail Project Details

In addition to locations of bikeway improvements, the 2024 Plan identifies various details and considerations for each proposed project that can assist the City of Albuquerque in implementation. These project details are summarized in Table 12 and are described in greater detail in the following sections and **Chapter 6: Implementation and Recommendations**.

Table 12. Components of Projects Proposed in the 2024 Plan

Facility Type	The 2024 Plan identifies the preferred facility type to achieve low-stress conditions given the roadway context. See <b>Chapter 4: Facility Types</b> for definitions and general design considerations.
Bikeway Improvement Strategy	Required changes to the roadway to achieve the desired facility type. Strategies include roadway restriping through road diets, enhanced crossings, implementation of bike boulevard treatments, vertical separation, and road expansion, among other techniques.
Priority Level	Projects are scored using the City’s Bikeway Evaluation Process to determine overall priority level. This information—along with cost estimates, timeframe, and means of implementation—is used to inform bikeway investment decisions. See <b>Chapter 6: Implementation and Recommendations</b> for evaluation criteria and <b>Appendix D: Bikeway Evaluation Process</b> for additional details.
Potential Implementation Timeframe	Designations of <b>plausible near-term</b> or <b>long-term</b> based on current roadway conditions and the types of changes needed to the street to create low-stress bikeway facilities. See <b>Chapter 6: Implementation and Recommendations</b> for additional details.
Means of Implementation	The City may implement projects through a range of approaches, including as a standalone investment, through annual roadway resurfacing efforts, or as part of a larger roadway improvement project. See <b>Chapter 6: Implementation and Recommendations</b> for additional details.





## Bikeway Improvement Strategies

Low-stress on-street bikeway facilities can take a variety of forms and can be achieved through a range of techniques for reconfiguring or reconstructing a roadway. The 2024 Plan applies a variety of strategies, outlined in Table 13, in the identification of bikeway and trail improvement projects.

A major priority for the 2024 Plan is to provide useful connections that are plausible in the near term. This approach emphasizes projects with lower costs and high impacts and acknowledges the real constraints related to staffing capacity and the financial resources available for implementation. *Near-term* opportunities to create lower-stress bikeways through reconfiguration include narrowing vehicle lanes to allow for buffers and wider bike lanes, road diets through restriping, and adding vertical separation, where feasible. Additional details and case studies are provided below for some of these strategies. *Long-term* projects include bikeways installed through strategies such as road expansion and median narrowing. Long-term projects also provide opportunities to incorporate street design elements that offer various co-benefits for pedestrians and overall roadway safety, such as street trees.

In practice, projects may require a combination of strategies. For example, separated bike lanes may be installed through a road diet or narrowing travel lanes to create space for a striped buffer and the installation of some form of vertical separation, while a bike boulevard may require a combination of traffic calming strategies and enhanced crossings. A sidepath may be installed by narrowing a median and reconstructing the sidewalk and/or moving the curb line into the roadway.



*The travel lanes on this section of Copper Avenue east of Chelwood Park Boulevard were recently narrowed to create space for a striped buffer.*



**Table 13. Bikeway Improvement Strategies Summary Table**

Strategy	Description
<b>Road Diet</b>	Removal of general-purpose travel lanes and reallocation of roadway space for bike lanes – with buffers and vertical separation as conditions permit. A road diet may be achieved in the near term through restriping. Changes to the curb lines generally indicate a long-term project.
<b>Restriping / Lane Narrowing</b>	Installation of new bike lanes or enhancements to existing bike lanes (e.g., application of striped buffers) through narrowing lanes and/or utilizing additional space on the road edge. Restriping may occur through the Annual Complete Streets Maintenance Program or as part of a stand-alone project. Where pavement is in good condition, striping can be removed and reapplied without resurfacing.
<b>Speed Reduction + Traffic Calming</b>	Increase bicyclist user comfort by reducing vehicle speeds adjacent to an existing or proposed bikeway through a combination of context-appropriate traffic calming techniques such as lane narrowing, adding street trees, adjustments to signal timing patterns, and reductions in posted speed.
<b>Vertical Separation</b>	Application of vertical barriers to existing bike lanes or as part of a restriping effort to create separated bike lanes.
<b>Road Expansion</b>	Install bike lanes and/or sidepaths as part of broader road improvement projects.
<b>Median Narrowing</b>	Reallocation of excess median width space to allow for a lateral shift in driving lanes and installation on-street bike lanes and/or sidepaths on the edges of the street. Many medians in newer parts of the city are excessively wide and were intended to conserve right-of-way for future roadway users.
<b>Enhanced Crossings</b>	Install new or improved crossings where multi-use trails or bike boulevards intersect with major streets. These crossings improve user safety and allow bicyclists and pedestrians to more comfortably cross major streets.
<b>Bike Boulevard and Enhanced Bike Route Treatments</b>	Application of traffic calming techniques, enhanced crossings, and signage and pavement markings along neighborhood streets to create low-stress conditions for bicyclists. Bike boulevards and enhanced bike routes may be implemented by upgrading existing bike routes or implementing design treatments on new corridors identified in the 2024 Plan.
<b>Multi-Use Trails</b>	Installation of new paved multi-use trails or improvements to existing trails, including enhanced crossings, to create more useful long-distance connections.
<b>Sidepath Installation</b>	Widening of existing sidewalks or installing a new facility outside of the curb line to create a low-stress facility that is shared by people bicycling, walking, and rolling.





## **Road Diets and Lane Narrowing Through Restriping**

### **Opportunities and Benefits**

Various corridors in Albuquerque feature excess vehicle travel lanes and lane widths, exceeding minimum thresholds outlined in industry best practice documents. These conditions encourage speeding and create high-stress conditions for bicyclists and pedestrians, but provide opportunities for road diets and narrowing of travel lanes to reallocate space for new or enhanced bike lanes. Installing bikeways in this manner is generally lower cost and can be implemented as part of regular roadway resurfacing and restriping or as part of a standalone effort to implement bikeways.

The 2024 Plan identifies on-street bikeway projects that are plausible in the near-term through restriping. Many of these projects include the installation of vertical barriers in the striped buffer space to create separated bike lanes, where feasible. Bikeway projects that involve reconfiguration of the roadway are based on initial screenings of traffic volumes, number of travel lanes, and curb-to-curb width.

### **Assumptions**

Road diets are appropriate when daily traffic volumes exceed certain thresholds. Table 14 contains thresholds applied by the City of Albuquerque for determining the appropriateness of implementing a road diet based on the number of general-purpose travel lanes and daily traffic volumes. The 2024 Plan applies a planning-level assumption in which road diets are feasible where there are fewer than 15,000 vehicles per day on streets with four general-purpose travel lanes and fewer than 30,000 vehicles per day on streets with six general-purpose travel lanes. Proposed road diets may be vetted using the MRCOG travel demand model before moving forward to design.

Table 15 provides key assumptions about appropriate travel lane widths and other street elements. This information is used to determine if proposed improvements are likely to fit within the existing curb lines. The guidance is consistent with ranges provided in the City's DPM and reflects current City processes. Note that the 2024 Plan did not perform an exhaustive inventory of all travel lane and median widths across the city and that additional engineering analysis is needed before projects are implemented.



**Table 14. Guidelines for the Appropriateness of Road Diets on Albuquerque Roads**

	Daily Traffic Volumes	Next Steps in Consideration of a Road Diet
<b>4-lane to 2-lane conversion</b>	<10,000 vehicles	No study required before implementing a road diet
	10,000-15,000 vehicle	Generally feasible; review of congestion at intersections before implementing road diet
	>15,000 vehicles	Study of traffic operations and intersection delay required
<b>6-lane to 4-lane conversion</b>	<25,000 vehicles	No study required before implementing a road diet
	25,000-30,000 vehicle	Generally feasible; review of congestion at intersections before implementing road diet
	>30,000 vehicles	Study of traffic operations and intersection delay required

**Table 15. Minimum Widths by Street Element (Project Identification Purposes)**

Street Element	Minimum Width
<b>Inside Travel Lanes</b>	10'
<b>Outside Travel Lanes</b>	10.5' 11' when transit is present
<b>Center Turn Lanes</b>	10.5'; 11' preferred
<b>Median</b>	15' on principal arterials 10.5' on minor arterials and collectors
<b>On-street Parking</b>	7', including gutter pan
<b>Bike Lane</b>	5' not including gutter pan
<b>Buffered Bike Lane</b>	7'
<b>Separated Bike Lane</b>	9'; 6' bike lane + 3' buffer

*Note: Minimum street width values by element are consistent with the City's DPM.*



## Speed Modifications

### Opportunities and Benefits

There are several corridors with existing or proposed bikeways where posted speeds are relatively high given the surrounding land uses. In these locations, modest reductions in posted speed limits could be accompanied by design and operational changes that produce lower design speeds, such as narrower travel lanes and modified signal timing, to create lower-stress bikeways.

### Example: Chelwood Park

Chelwood Park Boulevard traverses largely residential areas in east Albuquerque, yet features a posted speed limit of 35 MPH. With the addition of traffic calming measures, the posted speed limit could be lowered to 25 or 30 MPH in line with many comparable roadways.



*Chelwood Park Boulevard north of Copper Avenue*





## Vertical Separation

### Opportunities and Benefits

Physical separation increases safety and is an important strategy for creating low-stress bikeways that appeal to users of all ages and abilities, particularly along streets with higher traffic volumes and vehicle operating speeds. According to the FHWA inventory of crash modification factors, even simple flexible delineators may result in a 50% reduction in crash rates compared to a standard bike lane.

The City of Albuquerque features a growing number of buffered bike lanes, some of which may be candidates for vertical separation where the buffer area is at least 3' wide and where there are limited numbers of driveways.

### Considerations for Implementation

- Separated bike lanes can be installed as part of new bikeways or by applying a range of barrier types to upgrade existing buffered bike lanes to separated bike lanes.
- Vertical separation may be applied as a targeted improvement following the implementation of buffered bike lanes through resurfacing efforts.
- Many cities take the approach of applying lower-cost treatments in the near-term and applying more permanent features based on the observed impacts and public response.

Figure 18. Existing Buffered Bike Lanes (Top) and Option for Separated Bike Lanes (Bottom)



**Note:** The image on the bottom depicts one form of vertical separation with a flexible delineator. See Chapter 4: Facility Types for additional discussion and other forms of vertical barriers.



## Enhanced Crossings

### Opportunities and Benefits

The usability of the proposed network of bike boulevards and many existing paved multi-use trails depends on the ability to cross intersections with major streets. As demonstrated through public input for the 2024 Plan and national research, many people feel unsafe crossing these larger roadways without measures such as pedestrian hybrid beacons that increase motorist awareness of the presence of people walking and biking, and when activated, tell motorists to come to a complete stop. Enhanced crossings are also an important strategy for the City in addressing its Vision Zero goals as they have been shown to reduce the overall frequency and severity of crashes. See Table 16 for descriptions of crossing treatment types and general considerations for application.

### Benefits for Pedestrians

While the enhanced crossings in the 2024 Plan are specifically intended to support bicycle travel along existing and proposed bikeways, these crossings also provide significant benefits for pedestrians. In particular, crossings along bike boulevards and paved multi-use trails improve access to transit along major streets and reduce the distance between existing signalized intersections.

### Considerations for Implementation

- Enhanced crossings may be implemented as an individual investment, though benefits along paved multi-use trails and longer bike boulevards are greatest when crossings are implemented simultaneously to support greater overall mobility.
- Planning-level assumptions from the City's Bicycle and Trail Crossing Guide are used for selecting the appropriate crossing type and for developing project cost estimates. For bike boulevards, crossings are included in the overall estimated project cost.
- A general assumption for enhanced crossings is that two-way left turn lanes become a raised median refuge island that allows for a two-stage crossing. See examples of geometric improvements and a PHB with two-stage crossings in Table 16.

## Crossings of the Interstates and Rio Grande

Due to high costs and challenges related to implementation, dedicated bicycle and pedestrian bridge crossings are included in the 2024 Plan only if they have been subject to follow-up studies or analysis. These include a proposed facility along Bridge Boulevard over the Rio Grande and proposed crossings of I-25 at San Diego Avenue and San Francisco Street, which were evaluated at part of the *I-25 Bicycle Accessibility Study*. In other instances, the 2024 Plan leverages existing crossings by identifying bikeway improvements leading up to those bridges, such as a continuous bike boulevard along Alvarado Street on both sides of the I-40 crossing.

Additional crossings of the Rio Grande and the interstates may be identified as part of the update to the Long Range Bikeway System, a long-range planning tool maintained by MRCOG and updated as part of the *Metropolitan Transportation Plan*.





**Table 16. Enhanced Crossing Types and Applications**

Crossing Type	Description	Applications & Constraints
<p><b>Geometric Improvements</b></p>  <p><i>Silver Avenue at Girard Boulevard</i></p>	<p>A range of potential treatments -- including marked crosswalks, median refuge islands, bulbouts, raised crossings, and stop control -- intended to support safe, comfortable bicycle crossings of lower-volume and lower-speed streets.</p> <p>Where paved trails cross minor residential streets, treatments may include adding stop signs along the residential streets – pending a traffic analysis – so that trail users have priority and can continue bicycling without stopping.</p>	<ul style="list-style-type: none"> <li>• Lower speed and/or volume roadways</li> <li>• Rely on signage and crosswalk markings for driver compliance</li> </ul>
<p><b>Rectangular Rapid Flashing Beacon (RRFB)</b></p>  <p><i>Mackland and Carlisle</i></p>	<p>A traffic control device that increases driver awareness of pedestrians and bicyclists crossing roadways at marked midblock crossings or uncontrolled intersections. The beacons consist of rectangular-shaped amber lights that flash when activated and reinforce the need for drivers to stop at the crosswalk.</p>	<ul style="list-style-type: none"> <li>• Appropriate on streets with moderate speeds and traffic volumes</li> <li>• Safety benefits decrease as road width, traffic volumes, and vehicle speeds increase</li> <li>• Should feature raised medians to allow for two-stage crossing, if needed</li> <li>• Driver yield rates are lower than PHBs</li> </ul>
<p><b>Pedestrian Hybrid Beacon (PHB)</b></p>  <p><i>Central Avenue at San Pablo Street</i></p>	<p>Also referred to as HAWK signals, PHBs are a traffic control device that tell drivers to come to a complete stop at a midblock crossing or uncontrolled intersection when activated by a pedestrian or bicyclist.</p>	<ul style="list-style-type: none"> <li>• Driver yield rates are shown to be 90-100%</li> <li>• Should feature raised medians to allow for two-stage crossing, if needed</li> <li>• Higher cost than RRFBs</li> <li>• Require electrical connections and additional right-of-way for implementation</li> </ul>





## ***Bike Boulevard and Enhanced Bike Route Treatments***

### **Opportunities and Benefits**

The grid network across much of Albuquerque means there are low-stress neighborhood streets that run parallel to major roadways that provide direct connections to key destinations. Many of these streets are currently designated as existing bike routes—though conditions vary widely—and are proposed as either bike boulevards or enhanced bike routes.

Though bike boulevards and enhanced bike routes are shared streets, low-cost **traffic calming treatments** can be applied between major intersections to ensure low vehicle speed and traffic volumes and create comfortable conditions for bicyclists of all ages and abilities. In addition to managing vehicle speeds, **enhanced crossings** are essential components of bike boulevards as major street crossings can be significant barriers that can limit the utility of these bikeways.

### **Selecting Bike Boulevard Corridors**

Concurrent with the 2024 Plan, the City developed a *Bike Boulevard Toolkit* with guidance on which types of streets are appropriate candidates for bike boulevards and techniques for creating low-stress conditions for bicyclists, including the traffic calming features needed to achieve low traffic volumes and vehicle operating speeds.

Lowest-stress bike boulevards feature the following characteristics:

- 1,000 vehicles per day or less and operating speeds of 15-18 MPH or lower
- Traffic calming features that reduce motor vehicle speeds and discourage cut-through traffic
- Enhanced crossing treatments at intersections with major streets; refer to the Bicycle and Trail Crossings Guide when determining appropriate crossing treatments

## ***Building Upon a Growing Bike Boulevard Network***

Over the last decade, the City of Albuquerque has introduced a series of bike boulevards that now connect Old Town, Downtown, the University of New Mexico (UNM), Nob Hill, the Fair Heights neighborhood, and Uptown.

The 2024 Plan recommends numerous bike boulevards that connect to existing facilities and expands the network of low-stress bikeways.

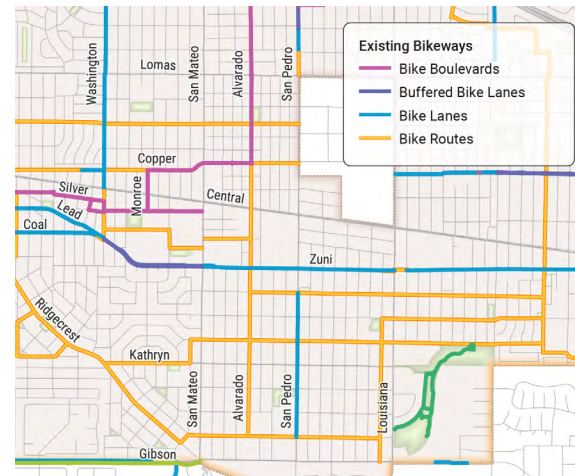


## Building a Network of Bike Boulevards

Figure 19 depicts the way a well-connected network of bike boulevards with enhanced crossings could be implemented in a portion of southeast Albuquerque. At present, there are numerous existing bike routes, though bikeway facilities are limited to basic signage and there are few crossings at major intersections that support low-stress bicycle travel. The proposed network consolidates the bike routes into a series of bike boulevards to form a simpler and more coherent network, thus increasing the chances of full implementation.

Figure 19. Transitioning from Bike Routes to Bike Boulevards

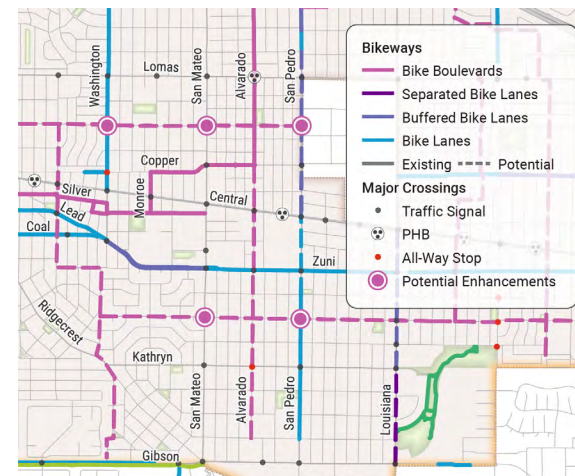
### Existing Bike Routes in Southeast Albuquerque



### Locations Where Crossing Improvements Would be Needed



### Proposed Bike Boulevards and Enhanced Crossings



## Bike Boulevards Versus Enhanced Bike Routes

Enhanced bike routes are shared streets with many of the characteristics of bike boulevards, including frequent pavement markings and traffic calming features to reduce vehicle speeds and increase bicyclist user comfort. The primary difference between bike boulevards and enhanced bike routes is the length of the facility and the lack of need for enhanced crossings, which is an integral part of bike boulevards. Enhanced bike routes are generally shorter-distance bikeways that provide connections to nearby destinations, including parks and trailheads, and other bikeways and paved multi-use trails. The 2024 Plan recommends upgrading various existing bike routes to enhanced bike routes or bike boulevards.

## Improvements to Existing Bike Routes

Many existing bike routes along neighborhood streets are recommended as enhanced bike routes and bike boulevards that are plausible in the near term, though the 2024 Plan does not prioritize all existing bike routes for improvements. Existing bike routes may be enhanced on a case-by-case basis through existing resurfacing and maintenance programs.

In some cases, long-term projects are identified along existing bike routes that are designated as collector and arterial streets with higher speeds and traffic volumes. Where existing bike routes are located along corridors that exceed the speed and volume thresholds outlined in **Chapter 4: Facility Types**, such as Avenida Cesar Chavez between the Rio Grande and Yale Boulevard, the City may consider removing Bike Route signage to encourage bicyclists to use parallel facilities.

## Constraints and Considerations for Implementation of Bike Boulevards

### Feasibility of Pedestrian Hybrid Beacons:

PHBs, a form of enhanced crossing and a critical component of many bike boulevards, are plausible in the near term where the right-of-way is known to be available, traffic signal utilities can support a new signal, and electrical power can be easily tapped into. Additional right-of-way and engineering analysis may be required prior to project design and implementation in older parts of the city (i.e., east of the Rio Grande between Gibson Boulevard and Comanche Road).

**Phased Implementation:** Implementation of bike boulevards may take place in phases as pavement markings and traffic calming features that rely on restriping can be installed as part of Complete Streets resurfacing. However, the corridor cannot be considered a

bike boulevard until enhanced crossings are provided, generally as part of a standalone project. Other traffic calming measures may also be warranted, especially if there is a need to further manage traffic volume and travel speeds.





## Case Study: Claremont Avenue Bike Boulevard

Claremont Avenue is proposed as a bike boulevard from just east of the North Diversion Channel Trail to Moon Street, a distance of more than 3.5 miles. As a continuous local street, Claremont Avenue offers a potentially low-stress option for accessing major commercial destinations and transit stops along nearby Menaul Boulevard. Because of the length of the corridors and the connections it provides to other bikeways, Claremont Avenue is also designated as a potential network spine.

In addition to low traffic volumes and vehicle speeds, Claremont Avenue already features traffic calming measures in the form of mini-roundabouts. Low-cost treatments such as frequent signage and striping could create a recognizable bike boulevard along linear portions of the corridor.

However, the value and benefits of a Claremont Avenue as a bike boulevard and network spine can only be realized through enhanced crossings at major intersecting streets such as San Mateo Boulevard, Louisiana Boulevard, and Wyoming Boulevard. Safer and more comfortable means of crossing these multi-lane arterials opens up a wide range of possibilities for less confident bicyclists who may otherwise be unwilling to attempt to cross such significant barriers. Enhanced crossings also provide significant benefits for pedestrians, as many of these arterials are important transit corridors.

**Claremont Avenue at Charleston Street (left); San Mateo Boulevard at Claremont Avenue**



Sources: Toole Design (left), Google Street View (right)



## Improving the Multi-use Trail Network

Paved multi-use trails are an integral part of the transportation network and support both long-distance trips across the city as well as recreational activities. Many of the City's paved multi-use trails form network spines. Some of these facilities are in separate right-of-way, such as the Bosque Trail, while others such as the North Diversion Channel Trail are fully grade-separated featuring notches under major roadways to allow for low-stress crossings. The 2024 Plan contains recommendations to both expand the paved trail network and to improve the comfort and usefulness of existing trails through design improvements. Coordination with the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) or other entities is generally required for improvements or expansion of the paved trail network.

## Proposed Multi-Use Trails

New paved multi-use trails have been previously proposed in the 2015 Plan and the Long Range Bikeway System, and a subset of these facilities that are generally feasible and would be highly useful for everyday transportation purposes are included in the 2024 Plan. Due to high construction costs and the need for detailed engineering design, proposed trails included in the 2024 Plan are usually considered long-term projects.

Planners, designers, and members of the public should refer to the Long Range Bikeway System for proposed sidepaths along future roads and paved trails in master-planned areas and to the DPM for guidance on trail design and desired amenities.

## Addressing Gaps in Major Multi-Use Trails

The 2024 Plan includes projects that address gaps in paved multi-use trails where right-of-way for improvements is currently available. Other multi-use trails projects where right-of-way is not currently available may still be included in the Long Range Bikeway System.

A major gap in the trail network is along the I-40 Trail. Based on the results of a recent study which determined that providing additional trail connections are not feasible at this time, projects along the I-40 Trail are not included in the 2024 Plan, though I-40 Trail improvements are included in the Long Range Bikeway System.

## Impacts of Width on Trail Capacity

At 11', a trail can comfortably accommodate 150-300 people passing a single point in an hour.

At 12-15', a trail can comfortably accommodate 300-500 people passing a single point in an hour.

The 2024 Plan recommends that the minimum width for paved multi-use trails and sidepaths be increased to 11' with 12-14' preferred. See **Chapter 6: Implementation and Recommendations** for additional information.



## Enhancements to Existing Trails

### Increased Trail Width along Network Spines

Paved multi-use trails are popular with a range of users, including people walking, jogging, rolling, and biking, and some of the more popular trails in Albuquerque, including the Bosque Trail, experience issues related to crowding. The growing presence of e-bikes creates a greater need to manage conflicts among users traveling at different speeds. Multi-use trails can meet increased demand and support different types of bicyclists through increased width during trail resurfacing, particularly along trails that were too narrow when initially constructed.

Today, most trails and sidepaths are 10' wide, with some facilities only 8' wide, particularly where right-of-way is constrained. Research shows that at less than 11', trails do not provide space for people to travel side-by-side and pass other users without increasing the potential for conflicts. Where space permits, trails that serve as network spines and that are below 11' in width should be widened.

## Enhanced Crossings

Many paved multi-use trails feature at-grade crossings with major streets that limit the usability of the trails. The 2024 Plan identifies locations for enhanced crossings and crossing types. In some cases, a project is proposed along existing trails involving multiple enhanced crossings. Enhanced crossings may be implemented individually, though a series of enhanced crossings along paved multi-use trails is critical for the extent of the trail to be useful and low-stress.



*Crossings at major streets without enhanced traffic control treatments, such as where the Embudo Trail intersects with Wyoming Boulevard, create barriers and limit the number of people who are willing to make trips by bicycle. Image source: Google Street View.*





# Sidepaths

## Opportunities and Benefits

Paved sidepaths at curb level provide a low-stress option for bicyclists of all ages and abilities, particularly where there is a buffer between the edge of the path and motor vehicle traffic. Particularly in newer parts of the city, sidepaths provide opportunities for long-distance connections and may be candidates for network spines.

The 2024 Plan proposes various projects that install new facilities or convert sidewalks into facilities that may be used by people walking, biking, and rolling. Sidepaths may be installed by the City through a dedicated bikeway project, as part of larger roadway improvement projects, or as part of the build-out of the street frontage along private development. Sidepaths may also be implemented through reallocation of roadway space, including narrowing medians. Sidepath projects that require moving curb lines are generally considered a long-term project with higher costs.

## Considerations for Implementation

- Sidepaths may not be feasible in the near term where there is limited right-of-way on the edge of a roadway or where there are frequent driveways and turning movements.
- Sidepaths may be considered on both sides of the street as space permits to better support two-way travel along a roadway and minimize the need for crossings
- A minimum of 14' of space is needed where subdivision walls are present to account for shy zones.
- Sidepaths may be installed alongside existing or future on-street bike lanes to support the preferences of different bicyclist user types.
- The 2024 Plan identifies sidepath projects along existing roads only. Planners and designers should refer to the Long Range Bikeway System for sidepaths along future roadways.
- Maintenance agreements are required for sidepaths installed as part of private development projects.



*Sidepath along Girard Boulevard near the Albuquerque International Sunport*





The background image shows a street scene with a dedicated bike lane. The bike lane is marked with a white arrow and a bicycle symbol on the asphalt. To the right of the bike lane is a concrete sidewalk and a building with a tiled roof. A sign on the building reads "BIKE LANE" with a bicycle icon. The image has a purple tint and a red diagonal stripe on the left side.

# 6. Implementation and Recommendations

# Chapter Overview

While the City of Albuquerque plans to implement the full set of projects identified in the 2024 Plan, constrained resources necessitate prioritizing improvements and implementing projects through various creative approaches. This chapter identifies priority projects, describes the potential means of implementing projects, identifies complementary policy and programmatic actions, and describes potential funding sources for 2024 Plan recommendations.

## Project Prioritization

### Evaluation Criteria and Prioritization

#### Background and Purpose

The 2024 Plan applies a data-driven prioritization process to help the City determine which bikeway projects to prioritize. The prioritization criteria align with the goals of the 2024 Plan and reflect overall City priorities and feedback received during the plan development process. The data-driven process uses nine evaluation criteria that address six key issues: safety, equity, access to destinations, network improvements, potential for bicycling trips, and community preferences. Table 17 summarizes the evaluation criteria categories

and Table 18 summarizes the scoring system used for project prioritization. The criteria and methodology in this 2024 Plan are intended to replace the Bikeway Evaluation Process initially developed in 2021 in coordination with the City's Greater Albuquerque Bicycling Advisory Committee (now GAATC).

#### Data Sources and Methodology

The evaluation criteria rely on a variety of existing datasets from the City and the Mid-Region Council of Governments (MRCOG), including crash data, the High Fatal and Injury Network (HFIN), and the equity-focused Vulnerability Index, as well as datasets developed for the 2024 Plan, including Bicycle Level of Traffic Stress and trip potential analysis. **Appendix D: Bikeway Evaluation Process** describes the criteria used in project prioritization and explains their link to plan goals and City policy priorities. The evaluation process utilizes Census data and datasets regularly updated by MRCOG or City staff, so the City and partner agencies can adapt the methodology to consider future projects not identified in this 2024 Plan.

#### Project Selection Considerations

Evaluation criteria reflect the overall benefits associated with a particular project, and the results of prioritization are meant to inform City decision-making. However, the City will consider other factors beyond prioritization

scores as part of project selection, including staffing needs, financial resources, and technical feasibility of a project.

### Prioritization Results

Figure 20 depicts the relative priority of the projects proposed in the 2024 Plan, while Table 19 lists the highest priority projects. See the [Proposed Network Story Map](#) for an interactive map, including details on facility type, project score, and potential timeframe for implementation for each priority project. See **Appendix F: Priority Project Lists** for a complete list of projects and rankings.



**Table 17. Evaluation Criteria Categories and Purpose**

Category	Purpose
<b>Safety</b>	Prioritize projects that improve bicycle facilities along corridors with a history of crashes or provide alternative parallel routes to these corridors.
<b>Equity</b>	Prioritize projects in areas with high share of vulnerable communities, as defined by the City of Albuquerque and MRCOG Vulnerability Index, which considers a series of economic, demographic, housing, and transportation factors. These vulnerable communities are particularly likely to rely on biking as a form of transportation and to benefit from improved facilities.
<b>Access</b>	Prioritize projects that provide direct access to important everyday destinations, including schools, parks, community centers, transit station areas, and high-frequency stops, as well as commercial and mixed-use areas designated as Centers in the Comprehensive Plan.
<b>Network Improvements</b>	Prioritize projects that provide a high level of user comfort, meet best practices in bikeway facility design (based on the FHWA <i>Bikeway Selection Guide</i> ), and support longer-distance travel by bicycle along a Network Spine.
<b>Level of Use</b>	Prioritize projects that create opportunities for more trips to be taken by bicycle, based on an analysis of the share of trips that are less than 2 miles in length in the project area.
<b>Community Input</b>	Prioritize projects that received positive feedback through online survey map and in-person outreach conducted in phase 2 of outreach.





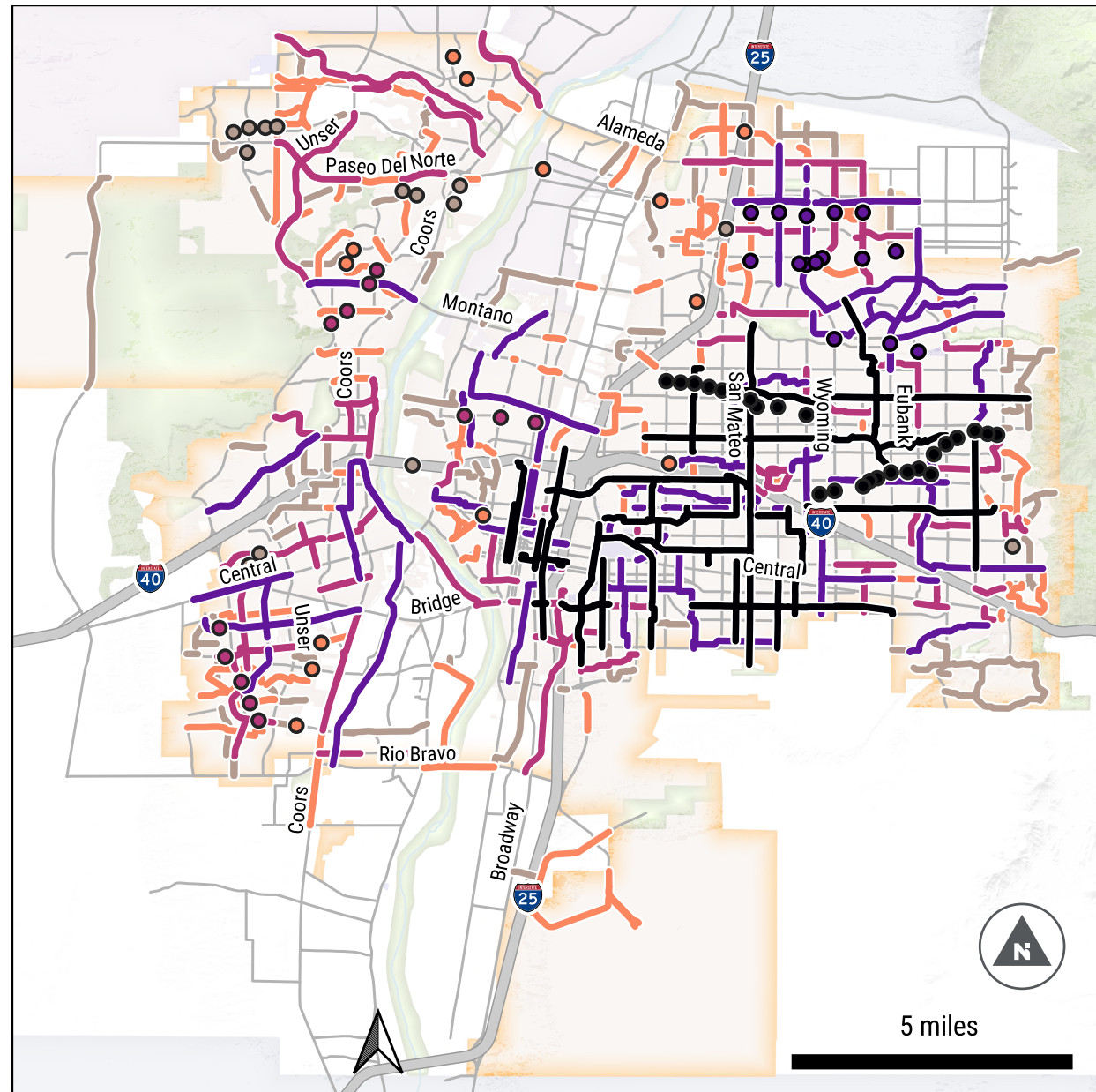
**Table 18. Bikeway Evaluation Process Criteria Summary Table**

Category	Criterion	Data Source	Max Points by Criterion	Share of Points by Category
<b>Safety</b>	Bicyclist-Involved Crashes	NMDOT Traffic Safety Division, 5-year crash inventory (2018-2022)	3	15%
	High Fatal Injury Network	Simplified HFIN, City of Albuquerque Vision Zero Year-in-Review/Action Plan Update	3	
<b>Equity</b>	Vulnerability Communities	CABQ/MRCOG Vulnerability Index	8	20%
<b>Access</b>	Destinations	Inventory maintained by the City of Albuquerque	3	15%
	Designated Activity Centers	City of Albuquerque Comprehensive Plan	3	
<b>Network Improvements</b>	Facility Needs	Bicycle Level of Traffic Stress (LTS) scores contained in the 2024 Plan	4	30%
	User Comfort	FHWA Bikeway Selection Guide, based on whether project meets best practices	4	
	Network Spine	Map of Network Spines contained in the 2024 Plan	4	
<b>Level of Use</b>	Potential For Bicycle Trips	Trip potential analysis, based on Replica data; aggregated at Census block group level	4	10%
<b>Community Input</b>	Community Input	Results of Project Priorities Map Survey	4	10%
<b>Total</b>			40	100%



Figure 20. Projects in the 2024 Plan by Prioritization Score

- Prioritization Results**
- Prioritization Score (Out of 40)
- Medium
  - High
  - Very High
- Project Type**
- New & Enhanced Bikeways
  - Enhanced Crossings





**Table 19. Highest Priority Projects from the 2024 Plan**

<b>Corridor</b>	<b>From Street</b>	<b>To Street</b>	<b>Length (mi.)</b>	<b>Proposed Facility</b>	<b>Timeframe</b>
<b>5th Street/6th Street</b>	Coal Avenue	I 40 Frontage Road Eastbound	2.9	Buffered Bike Lane, Bike Lane	Plausible Near-Term
<b>Alvarado Drive</b>	Eastern Avenue	I 40 Trail Bridge	2.2	Bike Boulevard, Bike Lane	Long-Term
<b>Avenida Cesar Chavez</b>	Broadway Boulevard	Yale Boulevard	1.1	Separated Bike Lane	Plausible Near-Term
<b>Broadway Boulevard</b>	Coal Avenue	Lomas Boulevard	0.9	Buffered Bike Lane	Plausible Near-Term
<b>Buena Vista Drive</b>	Gibson Boulevard	Central Avenue	1.6	Bike Boulevard	Long-Term
<b>Chelwood Park Boulevard</b>	Copper Avenue	Candelaria Road	2.6	Bike Lane	Plausible Near-Term
<b>Claremont Avenue</b>	Richmond Drive	Juan Tabo Boulevard / Paseo de las Montanas Trail	6.0	Bike Boulevard, Bike Lane	Long-Term
<b>Comanche Road</b>	San Mateo Boulevard	East of Tramway Boulevard	5.5	Separated Bike Lane, Enhanced Bike Route, Bike Lane	Plausible Near-Term
<b>Constitution Avenue</b>	Pennsylvania Street	Indian School Road	3.4	Bike Lane	Plausible Near-Term
<b>Edith Bouelvard</b>	Gibson Boulevard	Menaul Boulevard	3.4	Bike Boulevard, Bike Lane	Plausible Near-Term



Corridor	From Street	To Street	Length (mi.)	Proposed Facility	Timeframe
<b>Indian School Road</b>	Broadway Boulevard	San Pedro Drive	3.8	Separated Bike Lane	Plausible Near-Term
<b>Las Lomas Road / Campus Boulevard</b>	University Boulevard	Monte Vista Boulevard	1.0	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term
<b>Louisiana Boulevard</b>	Gibson Boulevard	Central Avenue	1.2	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term
<b>Marquette Avenue / Roma Avenue</b>	Girard Boulevard	San Pedro Drive	2.3	Bike Boulevard	Long-Term
<b>Parsifal Street/Moon Street</b>	Paseo de las Montanas Trail	Academy Road	3.6	Bike Boulevard, Bike Lane, Sidepath	Long-Term
<b>Paseo de las Montanas Trail / Embudo Recreation Trail</b>	Hendola Drive	Marie Park Drive	0.0	Paved Multi-Use Trail Crossing	Long-Term
<b>Paseo del Nordeste Trail</b>	Carlisle Boulevard	Pennsylvania Street	0.0	Paved Multi-Use Trail Crossing	Long-Term
<b>San Pablo Street / Charleston Street / Mesilla Street</b>	Southern Avenue	Constitution Avenue	2.3	Bike Boulevard	Long-Term
<b>San Pedro Drive</b>	Ridgecrest Drive	Osuna Road	6.1	Buffered Bike Lane	Plausible Near-Term
<b>Silver Avenue</b>	2nd Street	University Boulevard	1.1	Bike Boulevard, Separated Two-Way Cycle Track, Sidepath	Plausible Near-Term



Corridor	From Street	To Street	Length (mi.)	Proposed Facility	Timeframe
<b>Summer Avenue / Mackland Avenue / Marble Avenue</b>	Stanford Drive / North Diversion Channel Trail	Louisiana Boulevard / I 40 Trail Bridge	3.4	Bike Boulevard, Bike Lane	Long-Term
<b>Trumbull Avenue</b>	Valverde Drive	Eubank Boulevard	3.7	Bike Boulevard, Sidepath	Long-Term
<b>University Boulevard</b>	South of Gibson Boulevard	Lomas Boulevard	2.6	Separated Bike Lane, Bike Boulevard	Plausible Near-Term
<b>Washington Street / Montclair Drive</b>	Menaul Boulevard	Montgomery Boulevard	1.7	Bike Boulevard, Sidepath	Long-Term
<b>Wellesley Drive / Tulane Drive / Lafayette Drive</b>	Gibson Boulevard	Indian School Road	2.9	Bike Boulevard, Sidepath	Long-Term



# Potential Implementation Timeframes

## Definitions

To assist with planning and budgeting needs, the 2024 Plan proposes an implementation timeframe for all proposed projects: **plausible near-term** and **long-term**. These designations are based on the proposed facility type and the type of street improvements needed to achieve the desired conditions. Plausible near-term generally aligns with reconfiguration projects, whereas long-term generally aligns with reconstruction. All projects, regardless of implementation timeline, are subject to the bikeway evaluation process and are included in the project prioritization ranking tables.

- **Plausible near-term:** Projects that are considered plausible in the near-term are generally feasible through reconfiguration and do not require any additional right-of-way. Plausible near-term projects are usually lower cost and lower complexity and represent opportunities to build a network quickly if funding becomes available. This designation does not necessarily indicate that a project will happen, but that the project could happen, pending available funding, limited utility conflicts, staff capacity, and availability of local contractors to design and perform restriping and other improvements.
- **Long-term:** Long-term projects include improvements that require moving curb lines, narrowing medians, acquiring right-of-way, or constructing paved multi-use trails. A long-term designation does not mean the project will not or cannot happen in the near term, but these projects are generally higher in cost and complexity and typically take longer to finance and implement.

## Notes on Technical Feasibility and Project Identification

Since the 2024 Plan emphasizes projects that are plausible in the near term, the timeframe for implementation is both a designation applied to projects *and* an input into project identification. Where multiple route options are present, the 2024 Plan recommends paths that are more technically feasible over corridors that might require costlier and more challenging changes to the roadway. Long-term projects are included in the 2024 Plan but do not generally comprise key components for the proposed network unless no other options are available.

In much of east Albuquerque, particularly in the older parts of the City east of the Rio Grande and south of Comanche Road, uncertainty over right-of-way can create challenges for implementing enhanced crossings or other improvements outside of the curb lines. For this reason, many sidepath and bike boulevard projects are by default designated as long-term, though implementation may be plausible in the near term in some locations pending additional survey and right-of-way analysis and the availability of electrical and fiber connections.



# Means of Implementation

## Implementation Categories

There are various ways in which the City of Albuquerque can pursue the actual implementation of bikeway improvements. The *means of implementation* refers to the process of constructing bikeways and differs from the bikeway improvement strategies, which highlight the changes to the roadway that are needed to create a high-quality bikeway or trail facility.

Means of implementing bikeway projects can be grouped into two broad categories: **opportunistic** or **proactive** improvements.

- **Opportunistic** refers to a situation where bikeway improvements are not the primary purpose of a roadway investment but may be included as part of a larger project. Opportunistic improvements include the installation of on-street bikeways and paved trails as part of a roadway widening project or as part of a regularly scheduled roadway rehabilitation. A key consideration is to identify bikeway or trail improvements upfront when scoping more comprehensive roadway improvement projects.
- **Proactive** refers to a targeted or stand-alone project that is specifically intended to improve conditions for people bicycling. Proactive projects require dedicated resources to implement.

Table 20 summarizes bikeway improvement project types by implementation category. The extent of changes to a roadway informs whether projects can be made proactively or

opportunistic. Depending on the situation, some of the project types described below could be completed in either a proactive or opportunistic manner.

**Table 20. Summary of Means of Implementation for Bikeway and Trail Projects Led by the City of Albuquerque**

	Opportunistic <i>Can be Accomplished via Other Means and Programs</i>	Proactive <i>Standalone Project</i>
<b>Reconfiguration</b>	<ul style="list-style-type: none"> <li>• Annual Complete Streets Maintenance Program</li> <li>• Bike lanes</li> <li>• Buffered bike lanes</li> <li>• Enhanced bike routes</li> </ul>	<ul style="list-style-type: none"> <li>• High-priority bike lanes and buffered bike lanes</li> <li>• Separated bike lanes</li> <li>• Bike boulevards with enhanced crossings and/or traffic-calming features</li> <li>• Intersection and signal improvements</li> <li>• Speed modifications</li> </ul>
<b>Reconstruction</b>	<ul style="list-style-type: none"> <li>• City-led major <b>roadway improvement</b> projects integrating bikeways</li> <li>• Paved multi-use trails/ Sidepaths accompanying <b>private development</b></li> <li>• Street construction accompanying <b>private development</b></li> </ul>	<ul style="list-style-type: none"> <li>• High-priority paved multi-use trails/ sidepaths</li> <li>• High-priority projects that require roadway widening or median narrowing</li> </ul>



## Annual Complete Streets Maintenance Program

### New or Upgraded On-Street Bikeways

Every year the City of Albuquerque repaves dozens of miles of municipal roads, which provides opportunities to install alternative striping designs that include new or wider bike lanes, buffers, and other pavement markings. Bikeway improvement projects identified in the 2024 Plan—defined as a new facility or a change in facility type, such as converting a bike lane into a buffered bike lane—can be implemented through the Annual Complete Streets Maintenance Program. Additional improvements to complement striping improvements, such as enhanced crossings, could be implemented in the future as part of a standalone project.

### General Facility Enhancements Through Restriping

In addition to the proposed projects contained in the 2024 Plan, modest improvements to existing bikeways can be applied through resurfacing and restriping, such as widening a bike lane from 5' to 6'. The City's standard practice as part of the Annual Complete Streets Maintenance Program currently is and should continue to be to enhance existing bikeways within the existing curb lines to meet DPM guidance and national best practices,

where feasible, regardless of whether there is a proposed bikeway project along the corridor.

## Standalone Bikeway Projects

### General Bikeway Improvements

More significant improvements that require changes to curb lines, intersection upgrades, enhanced crossings, acquiring right-of-way, and other changes beyond what can be implemented through restriping generally require standalone projects that are funded through federal and local funds, including money from general obligation bonds. A reconfiguration project that just requires restriping may also be performed as a standalone project, especially in cases where a bikeway improvement is a high priority but the roadway is not scheduled for resurfacing in the near term. Due to the need for enhanced crossings, bike boulevards generally require standalone projects.

### Complementary Treatments to Complete Streets Resurfacing

Standalone projects may also include targeted improvements to further enhance existing bikeways and bikeways newly installed through resurfacing and restriping. These improvements require independent funding and include techniques beyond the striping changes that can be applied through the Annual Complete Streets Maintenance

Program. Targeted improvements include applying vertical separation, where appropriate and as space permits, and signal upgrades to accommodate bicycle and pedestrian safety treatments such as leading pedestrian intervals and dedicated bicycle signal phases.

## Private Development

Bikeways and multi-use trails may be constructed along the frontage of a private development or redevelopment project, depending on the scale of the project and the location. The Long Range Bikeway System, maintained by the Mid-Region Council of Governments, is the primary resource when requiring infrastructure investments as part of private site development.

## Major Roadway Projects

Bikeways and trails are often installed as part of new roadway construction or major roadway projects, such as the widening of Unser Blvd between Paseo del Norte and Paradise Blvd. Where bikeways and trails are installed, design should follow the guidance contained in the DPM.





# Planning, Policy, and Programmatic Recommendations

## Overview

This section outlines a series of **planning**, policy, and program recommendations that support the implementation of on-street bikeways and paved multi-use trails across the City of Albuquerque and encourage a greater share of trips to be taken by bicycle. Individual recommendations are described below and summarized in Table 24 at the end of this document.

Table 21. Categories of 2024 Plan Recommendations

Planning	Policy	Programmatic
<ul style="list-style-type: none"><li>• City Staff, Regional, and Stakeholder Coordination</li><li>• Data Collection and Evaluation</li><li>• Project Development</li><li>• Signage/Wayfinding Plan</li></ul>	<ul style="list-style-type: none"><li>• Local Level</li><li>• State Level</li></ul>	<ul style="list-style-type: none"><li>• Existing Programs to Continue</li><li>• New Programs to Initiative</li><li>• Partnerships and Programs to Encourage</li></ul>



## Planning Recommendations

### City Staff, Regional, and Stakeholder Coordination

Implementation of the 2024 Plan will require coordination between the City and various partner agencies and peer institutions. This section highlights specific opportunities to partner on programs and investments related to bikeway facility implementation and supporting programs.

#### City/Inter-Departmental

- Continue inter-departmental coordination among Municipal Development (DMD), Parks and Recreation (PRD), Planning, ABQ RIDE, and others involved in on-street bikeways and off-street multi-use trails
- Update Bikeway and Trail Facilities Plan at regular intervals (e.g., every five years)

#### Transit

- Coordinate on potential street improvements along existing or proposed transit corridors (e.g., University Blvd).
- Pursue a comprehensive program to improve access to transit, including bicycle and pedestrian connections to high-frequency transit routes.
- Increase installation of bike parking at park-and-ride facilities and on-street locations near ART stops.

### Higher Education

- Coordinate with the University of New Mexico on the Integrated UNM Campus Master Plan and the implementation of enhanced bike facilities within the Main Campus. Ongoing coordination is needed for the maintenance of facilities on campus roads that are owned by the City of Albuquerque.
- Coordinate with Central New Mexico Community College (CNM) on proposed improvements in or near Main Campus and area branch campuses. Specific priorities around CNM Main Campus include the Buena Vista Dr Bike Boulevard and bike-ways along University Blvd.

### Law Enforcement

- Departments overseeing the Rail Trail and other paved multi-use trails should coordinate with the Albuquerque Police Department (APD) on bicycle patrols to address security concerns.
- Encourage APD to enforce the city ordinance prohibiting drivers from parking in bike lanes.

### Regional Planning, Coordination, and Data Collection

#### MRCOG

- Participate in regional boards and committees and seek federal funding for bikeway and trail improvements through the Transportation Improvement Program (TIP).
- Coordinate with MRCOG on its non-motorized counts program, including locations for deployment and data sharing.
- Support the development of the Metropolitan Transportation Plan (MTP), including integration of Bikeway and Trail Facilities Plan recommendations into the regional Long Range Bikeway System (LRBS).
- Participate in updates to the LRBS, including identification of potential bridge crossings over the Interstates and the Rio Grande.
- Develop criteria and guidance on the appropriate contexts and considerations for dedicated pedestrian and bicycle bridges, including Interstates and other access-controlled facilities.

#### BERNALILLO COUNTY

- Convene staff on an as-needed basis to identify regional bikeway and trail priorities and review improvements that transcend jurisdictional boundaries.
- Participate in the Bicycle and Pedestrian Safety Action Plan update and other relevant planning efforts.



## NMDOT

- Coordinate on future updates to the Statewide Prioritized Bicycle Network Plan.
- Collaborate on potential projects along NM highways within city limits, including crossings where City streets intersect with NMDOT facilities.
- Coordinate on maintenance of paved multi-use trails located within city limits that are owned and maintained by NMDOT.

## AMAFCA

- Coordinate on the continued development and maintenance of paved multi-use trails along arroyos and flood control infrastructure.

## STATE OF NEW MEXICO

- Coordinate with the State to identify feasible walking and biking routes through EXPO New Mexico.

## Data Collection & Evaluation

### MRCOG Active Transportation Count Program

For evaluation efforts, the City should coordinate with MRCOG on its Active Transportation Count Program. Short and long-term bicycle, pedestrian, and trail counts require many resources, equipment, and staff time to be able to collect a comprehensive set of data and then analyze data.

To better understand best practices and approaches to these programs, starting in 2022 and throughout 2023, MRCOG completed a planning effort in coordination with partner agencies, including the City of Albuquerque, to create and formalize an Active Transportation Count Program and Plan. Discussions with MRCOG and partner agencies throughout the planning process, determined that a centrally organized Active Transportation Count Program managed by MRCOG was the most suitable for the region. At the time of the discussions, most partner agencies did not feel well-equipped to create their own non-motorized count programs because they require many staff resources, coordination, understanding of different methodologies/technologies, analyses, and funding.

Next steps include creating a stakeholder committee consisting of MRCOG staff and interested partner agencies. The City should partner with and coordinate on MRCOG's Active Transportation Count Program and work with MRCOG to monitor these data and collect before and after counts for key on-street bike and multi-use trail projects.

## Program History and Permanent Counters

In partnership with PRD, MRCOG manages seven bicycle and pedestrian EcoCounters. These counters were installed between 2014 – 2017 at the following locations:

- Paseo del Bosque Trail and Tingley Beach
- Paseo del Bosque Trail and Montano Rd
- Paseo del Norte and the Rail Runner
- North Diversion Channel Trail near the Journal Center
- North Diversion Channel Trail near Indian School Rd
- Near the Erna Fergusson Library
- Jerry Cline Park

Data related to these counters and other active transportation counts can be found on the MRCOG [website](#). MRCOG also works with partner agencies to set up a camera to gather short duration video counts of people walking and biking. Typically, these counts are gathered at locations before and after an improvement project to see if the project had an impact on active transportation usage rates.



## CRASH DATA ANALYSIS

DMD's Transportation Engineering Division and Traffic Engineering Divisions monitor and analyze crash data to inform current and planned projects and to identify potential future projects. The Vision Zero program also uses crash data to prioritize proposed bikeway and trail projects. DMD, APD, and MRCOG have recurring meetings to review fatal and serious injury crash reports and identify if there are potential engineering countermeasures that could address crashes. DMD should continue this data-driven analysis and the fatal crash review meetings. There is an opportunity for the Active Transportation Planner to put together an annual summary of crash data by mode, and crash factors, and update the story map with bicycle-involved crashes. MRCOG also tracks and monitors crash data and the City should work with MRCOG on crash data analysis to identify trends.

## TRACKING NEW BIKEWAYS AND TRAILS

In coordination with PRD, DMD should track and monitor new on-street bikeway and paved multi-use trail projects and keep the geographic information systems (GIS) data up to date. This data tracking should distinguish new bikeway and trail projects that were identified for the 2024 Plan versus those created or updated based on the results of crash data or other subsequent analyses and studies.

## Surveys

In partnership with MRCOG and as part of the City's Bike to Wherever (Work) Day event in May, MRCOG distributes a bike survey to understand the barriers, perceptions, and feedback from the community. The survey helps the City evaluate its progress in implementing new on-street bikeways and trails and to understand areas of concern or potential gaps in the network. The City should continue to partner with MRCOG in putting the survey together and disseminating the survey through Bike to Wherever Day events. The City should use data collected from the survey to better understand the community's perceptions of bicycling in Albuquerque and to evaluate transportation projects that include bicycle and/or pedestrian improvements.

## Project Development

### Proactive Planning for Long-term Projects

The following strategies will assist in the development of long-term projects and allow the city to develop more accurate budgets for implementation and long-term maintenance:

- **Consider life cycle and maintenance costs as part of project scoping:** Cost estimates for new bikeways and capital investments such as PHBs and RRFBs should include both capital project cost estimates and annualized maintenance costs across a period of time (e.g., 10 years).

- **Preserve right-of-way for future improvements:** Preserve abandoned rail or utility corridors for future multi-use trails. Future trail alignments should be incorporated into the Long Range Bikeway System.
- **Proactive survey and right-of-way analysis along high-priority crossing locations:** Determining right-of-way limits and obtaining property when installing PHBs and for intersection improvements can be time-consuming and costly. The City could proactively survey proposed locations for PHBs and other spot improvements along the 10 highest-scoring bike boulevard corridors and trail crossing locations to identify whether existing City right-of-way is sufficient or if property acquisition would be needed.

## Updates to the Development Process Manual

### GENERAL OBSERVATIONS AND RECOMMENDATIONS

The City of Albuquerque *Development Process Manual* (DPM) contains standards and guidance for various infrastructure types, with roadway design elements organized around *Comprehensive Plan* Corridor designations. As a design manual, the DPM focuses primarily on the required features of different street elements, with some guidance given on how street designs should vary based on the surrounding context. The 2024 Plan can



complement the DPM by providing greater direction on the appropriate bikeway facility type for different contexts and strategies for meeting the needs of users of all ages and abilities. In addition to references to the 2024 Plan, references can be provided to City-specific design guidance documents that are not currently mentioned in the DPM, including the *Bike Boulevard Toolkit* (Appendix E) and the *Bicycle and Trail Crossings Guide* (Appendix J).

### RECOMMENDATIONS BY DESIGN ELEMENT AND FACILITY TYPE

Recommended updates to the DPM are organized by design element and facility type.

#### CROSSINGS

- **Crossing spacing:**
  - Expand the focus of the DPM beyond the distance or spacing between crossings by corridor type to include guidance on bikeway crossings. Greater clarity is needed to explicitly allow for the placement of crossings where bike boulevards and multi-use trails intersect with major streets.
  - Include guidance on minimum spacing between signalized intersections and PHBs. Best practice is generally a minimum of 300’.

- **Crossing design:**

- Include cross references to the *Bicycle and Trail Crossings Guide* for discussion on appropriate crossing types.
- Provide guidance to ensure crossings at mid-block locations are properly illuminated.

#### PAVED MULTI-USE TRAILS

- **Width:**

- Change the minimum width for paved multi-use trails from 10’ to 11’, with 12’ as the preferred minimum.

- **Public access:**

- Provide a general recommendation that paved multi-use trails should be publicly accessible for all hours of the day, to the greatest extent possible, especially if they are critical for network connectivity (e.g., dedicated bridges over the Interstates).

#### SIDEPATHS

- **Appropriateness:**

- Update language to indicate that sidepaths are a standard bikeway facility type rather than just an alternative design for sidewalks.

- **Design guidance:**

- Additional consideration could be provided regarding intersections, driveway

conflicts, buffer zones, shy distance, the needs of contraflow bicyclists, and other factors that influence the experience of people walking and biking along a roadway.

- Existing language indicating that sidepaths are to be designed to the standards of paved multi-use trails should be retained.

#### ON-STREET BIKEWAYS

- **Bike boulevards:**

- Provide references to the 2024 Plan for facility type definitions and how to differentiate between bike routes and bike boulevards.
- Create a reference to the *Bike Boulevard Toolkit* for guidance on appropriate corridors and desired design elements.
- Create a reference to the *Bicycle and Trail Crossings Guide* for appropriate crossing treatments of bike boulevards at major intersections.
- Formalize a standard speed limit for bike boulevards. If 18 MPH is not considered appropriate, then the speed limit should be 15 MPH.
- Discuss the application of traffic calming techniques along bike boulevards, including the use of speed bumps and stop sign orientation.



- For signage along bike boulevards and enhanced bike routes, use “Bicycles May Use Full Lane (R4-11) rather than “Share the Road.”

- **Bike lanes and buffered bike lanes:**

- Include a maximum bike lane width to ensure the bike lane is not confused with a travel lane or turn lane.
- Clarify that any buffer wider than 1.5’ requires cross hatching.

- **Separated bike lanes:**

- Provide additional guidance on separated bike lane design, including appropriate barrier types and buffer widths.
- Clarify the circumstances in which separated bike lanes are most appropriate.

- **Application of green paint:**

- Provide guidance and a standard detail on the application of green paint along different bicycle facility types, including at conflict areas and approaches to intersections.
- Include references to national design manuals, including the recently updated MUTCD, the National Association of City Transportation Officials (NACTO) Urban Bikeway Design Guide, and the AASHTO *Guide for the Development of Bicycle Facilities*.

## DESIGN GUIDANCE FOR CONTEXT-SPECIFIC BICYCLE FACILITY TYPES

- **Two-way cycle tracks:**

- Update language to state that “two-way cycle tracks may be considered under specific circumstances” rather than that two-way cycle tracks are “discouraged” (7-86).
- Clarify the differences between two-way cycle tracks and separated bike lanes.

- **Raised bike lanes:**

- Complement the current references to national design manuals with a reference to the 2024 Plan for appropriate contexts and limitations in the application of raised bike lanes across the City of Albuquerque.

## GENERAL STREET DESIGN

- **Road diets:** Provide guidance on appropriate locations for the application of road diets.
- **Traffic control plans:** Formalize the consideration of a bike detour during the review of traffic control plans.
- **Drainage:** Provide guidance on preferred types of drainage grates and placement in the gutter pan to avoid conflicts with users along on-street bikeways. Include cross references to the Drainage section to ensure consistency.

- **Green stormwater infrastructure:** Provide guidance on use of native drought-tolerant grasses and plants adjacent to multi-use trails.

## INTERSECTIONS

- **Daylighting:** Require and provide guidance on the use of daylighting to improve visibility by restricting on-street parking for a certain distance from intersections to ensure sightlines are not obstructed and all roadway users can see each other.
- **Bike lane design at intersections:** Conduct an internal review of existing intersection design treatments, including general challenges at major street intersections in Albuquerque, and identify preferred bikeway design treatments, opportunities for protected intersections, and bicycle detection techniques. Develop guidance on desired treatments for different intersection types.
- **Signalization:** Develop guidance for bicycle and pedestrian-specific signal treatments, including equipment needs and appropriate contexts.

## Annual Complete Streets Maintenance Program

The Annual Complete Streets Maintenance Program can be further enhanced through proactive planning and design efforts. Identifying likely roadways for resurfacing





12-18 months in advance, where possible, would provide time for additional analysis of street design needs, including spot improvements that are currently outside of the scope of the program, and identification of supplemental funding sources. General recommendations are provided below; additional staff resources would be required.

- **Advanced planning:** Identify roadways for resurfacing more proactively to allow for advanced planning and design. Consider restructuring the selection criteria of roadways for surfacing to include equity considerations, multimodal needs, and safety concerns.
- **Coordinated resurfacing schedules:** Coordinate future resurfacing on adjacent segments to minimize the time where bikeway facilities end at the terminus of a repaving project. To the extent possible, the objective should be to create continuous bikeways.
- **Documentation:** Continue to compile technical memoranda that document future improvements and additional location needs and compile recommendations into a formal database and geospatial inventory.
- **Internal coordination:** Consult the Bikeway and Trail Facilities Plan recommendations during resurfacing and restriping and consider opportunities to implement ADA improvements concurrent to pavement preservation.

- **Supplemental funding:** Create a dedicated and flexible source of supplemental funding for small spot improvements such as signage, flexible delineators, etc.

## Maintenance

**Develop maintenance plans for on-street bikeways and paved multi-use trails:** Maintenance of on-street bikeways and paved multi-use trails is critical for both recreation and transportation purposes and should be viewed as an ongoing investment in creating alternatives to single-occupancy vehicle travel. To continue the current level of maintenance and add any recommended additional maintenance responsibilities requires additional staff resources, equipment, and funding. Considerations and components of on-street bikeway and paved multi-use trail maintenance plans include:

- Coordination between DMD and PRD
- Coordination with outside agencies that are also responsible for multi-use trail maintenance including AMAFCA, Bernalillo County, NMDOT, National Park Service, neighborhood associations, private entities (such as homeowner's associations), and any other relevant groups.
- Explore opportunities to utilize volunteers for multi-use trail maintenance
- More frequent street sweeping of bikeway network spines and other high-volume bikeways.

- Refreshing of pavement markings regularly for on-street bikeways, and for trail and bike boulevard crossings as needed.
- Inspection of bicycle-specific loop detectors at key crossing locations regularly.
- For major bikeway and trail projects, the design engineer or landscape architect should include a concept plan for the long-term maintenance protocol if there are needs specific to that project that vary from routine maintenance practices.
- Establish timely responsiveness to maintenance requests from citizens through 311
- Funding to hire additional staff to support maintenance for on-street bikeways and paved multi-use trails.
- Develop maintenance cost estimates for each type of new bikeway or multi-use trail. Identify a strategy to increase maintenance funding as new bikeways and multi-use trails are constructed.

**Provide adequate staffing for traffic signal maintenance:** *2024 Plan recommendations* include a high number of PHBs and RRFBs. The enhanced crossings require additional technology, staff time, and maintenance; adequate staffing is needed to support the ongoing operations of traffic signals and crossing equipment.



## Current Maintenance Practices

Current maintenance practices are described below. In addition to the formal maintenance techniques, members of the public are encouraged to submit comments and requests via 311 and online comments so that DMD and PRD can be more responsive to critical maintenance issues.

As more on-street bikeways and multi-use trails are built, additional funding for staff and maintenance is needed, and the recommendation to develop maintenance plans for both on and off-street facilities is increasingly critical.

**On-Street Bikeways:** For on-street bikeways, pavement preservation, signs, pavement markings, and sweeping are the responsibilities of the Department of Municipal Development, typically through the Street Maintenance Division and/or Traffic Engineering Division. City streets are swept four times per year on average, and as needed based reports of debris in roadways.

**Multi-Use Trails:** Current maintenance practices for paved multi-use trails include:

- Maintain a clear 3' recovery zone on both sides of trails, spray for weeds on both sides of trails, mow both sides of trails to keep weeds and grasses at a manageable height, and sweep trails on an as-needed basis.
- Asphalt repairs include filling in cracks and removing and replacing sections of trail as needed. Repairs may be limited based on funding and staffing; major repairs need to be contracted when funding is available.
- Painting and replacing bollards as needed, sign replacement and installation as needed, and pruning of trees and shrubs that encroach into bike trails; this is on an as-needed basis.

**Inter-agency Coordination:** Bernalillo County, Open Space Division, and NMDOT also maintain paved trails in the Albuquerque area; in addition, AMAFCA, MRGCD, and other agencies may perform work along trail corridors. Informal coordination and occasional opportunities for cooperation may occur, but there is no regular coordination among crews working in the same area.

As more on-street bikeways and multi-use trails are built, additional funding for staff and maintenance is needed, and the recommendation to develop maintenance plans for both on and off-street facilities is increasingly critical.



## Signage/Wayfinding Plan

### Background/Purpose

Directional signage and wayfinding can help people bicyclists better navigate the transportation network and access destinations such as commercial centers, public facilities, multi-use trails, parks, or transit stations. At present, wayfinding is primarily used on bike boulevards and at select locations along the paved multi-use trail network. Improved signage along paved multi-use trails was frequently cited by community members as a need during public outreach events, and expanded wayfinding and signage could be particularly useful for appealing to a wider range of potential bicyclists. Both the creation and implementation of a formal signage/wayfinding plan require additional staff resources and funding.



### Signage and Wayfinding Plan Elements

The City of Albuquerque should pursue a comprehensive signage and wayfinding plan with the following elements:

- Signage design principles, including general frequency of signage along paved multi-use trails and on-street bikeway types and standard conventions around signage content, such as destination types.
- A “sign family” of the various sign types to be consistently applied throughout the city. All signs must be MUTCD compliant.
- Guidance on placement, including approaches to intersections, trail crossings, and other decision points.
- Integration among bikeway facilities, including bike boulevards, paved trails, and other bikeway networks such as the 50 Mile Activity Loop.
- Maintenance needs and considerations.



Source: *Rails to Trails Conservancy; Toole Design*



## Policy Recommendations

### Local Level

#### Incorporate Plan Recommendations into Ongoing City and Regional Planning Efforts

The 2024 Plan should be referenced during the development of Community Planning Area Assessments, and plan recommendations should be incorporated into updates to the City's *Comprehensive Plan* and the *Metropolitan Transportation Plan*. Additional staff resources are needed to ensure continued participation in regional boards and committees through MRCOG and to adequately support internal planning needs.

#### E-Bike Policies

##### ESTABLISH A CITY-LEVEL POLICY ON THE USE OF E-BIKES ALONG PAVED MULTI-USE TRAILS

Electric bicycles, or e-bikes, are an increasingly popular option for bicycling that provide a way for people of varying abilities to take longer trips by bike and overcome barriers such as steep hills. City-level policies can encourage the further adoption of e-bikes as both a recreational activity and a utilitarian mode of transportation. Since e-bikes are capable of traveling at higher speeds than standard bikes, state regulations and local policy are critical for managing conflicts among different user groups, particularly along paved trails.

As of spring 2024, the City is considering an e-bike policy that would allow all classes of e-bikes on paved multi-use trails and imposes a speed limit of 20 miles per hour on paved multi-use trails. This draft policy revises previous city ordinances to allow Class 1, 2, and 3 e-bikes on streets except where explicitly prohibited, and on designated trails within

Open Space Lands or Regional Preserves (see Table 22 for definitions). Further policies may be considered that clarify which types of powered micromobility devices (e-scooters, e-skateboards, etc.) – in addition to e-bikes – are allowed on city streets, on-street bike-ways, and/or sidewalks.

Table 22. Standard E-bike Classes and Definitions

Class	Bicycle Equipment	Appropriate Locations to Ride
Class 1	Bicycle equipped with a motor that provides assistance only when the rider is pedaling, and that ceases to provide assistance when the electric bicycle reaches 20 mph.	All roads and paved multi-use trails.
Class 2	Bicycle equipped with a throttle-actuated motor that ceases to provide assistance when the bicycle reaches 20 mph.	Any road; paved multi-use trails if located within a street or highway, or if a city permits.
Class 3	Bicycle equipped with a motor that provides assistance only when the rider is pedaling, and that ceases to provide assistance when the electric bicycle reaches 28 mph. People under 16 may not operate class 3 e-bikes.	Any road; paved-multi-use trails if located within a street or highway, or if a city permits.

Source: *People for Bikes; Department of the Interior*



## Emerging Best Practices in E-bike Rebate Programs

According to [research from Portland State University](#), emerging best practices from e-bike rebate programs around the US include:

- Using a “targeted universalism” approach to create high incentive programs for certain population groups in addition to more modest incentives for the general population.
- Partnering with academic institutions or regional planning agencies for collecting and tracking data.
- Partnering with local bike shops for access to service and demonstrating e-bike use.
- Making the application process for rebates simple and available through an online portal.

### PROVIDE INCENTIVES FOR THE PURCHASE AND USE OF E-BIKES

The City of Albuquerque can investigate and pursue one of several emerging models to encourage e-bike adoption through incentive or rebate programs. One potential model is Denver, CO’s successful [E-Bike Incentive Program](#), operated by the City’s Office of

Climate Action, Sustainability, and Resiliency, which created a point-of-purchase rebate program at brick-and-mortar bike shops for residents to purchase e-bikes or cargo e-bikes, with an increased rebate for residents earning 80% area median income or less. The program is funded by a [2020 ballot measure](#) that approved a sales tax increase to support a range of climate initiatives. The program has been shown to attract new people to bicycling and successfully replaced an average of 3.4 car trips per user per week in its first year.

### Allow Bicyclists to Follow Pedestrian Control Signals

Currently, people bicycling in Albuquerque must follow the same rules of the road as people driving. In addition to investing in lower-stress bikeways, there are opportunities to modify existing traffic laws to create a safer and more comfortable experience for people bicycling. Leading pedestrian intervals (LPIs) are an FHWA proven safety countermeasure that allows people a five to seven-second head start when crossing the street before people driving enter the intersection. There are opportunities to also allow people bicycling the opportunity to cross the intersection using the LPI. In recent years, DMD has implemented LPIs at approximately 15 intersections, including along critical HFIN corridors such as Louisiana Boulevard at Kathryn Avenue, Southern Avenue, and Trumbull Avenue.

A policy of allowing bicyclists to follow LPIs has precedent in other cities, including New York City, which made it legal for people bicycling to cross roadway intersections using pedestrian signals in 2019. The City of Albuquerque should investigate and create a similar law that would allow people bicycling to use LPIs to cross an intersection except where otherwise indicated by traffic control devices. Bicyclists would still be required to yield to people in the crosswalk.

### Reevaluate Local Bike Laws that Prevent Safe and Inclusive Biking

In partnership with the community and advocates, the City should reevaluate its existing rules, laws, and policies that impact people bicycling and walking and investigate if there are opportunities to remove or improve them in alignment with recent national best practices. This policy review would follow an example by a growing number of cities.

NACTO released a working paper called [“Breaking the Cycle: Reevaluating the Laws that Prevent Safe and Inclusive Biking”](#) in 2022 that investigated laws or rules that are intended to keep people safe but that are often enforced unevenly and disproportionately impact marginalized people, including but not limited to people of color, low-income, and unhoused people. The paper investigates commonly enforced laws related





to equipment (e.g., helmets, bike lights, etc.), behavior (e.g., stop signs, traffic signals,) and locations (e.g., biking on sidewalks, biking the wrong way in a bike lane). The paper also identifies recommendations for city agencies to revisit and potentially eliminate laws that can be used to criminalize people on bikes; for example, Kansas City had a statute that required bike wheels and tires to be clean. In another example, the State of California passed a bill in 2022 to decriminalize jaywalking; the law went into effect on January 1, 2023.

### **Investigate Opportunities to Pay Volunteers who Serve on City Advisory Committees**

GAATC and GARTC advise the City on matters of walking, biking, and on and off-street facilities, and having a diverse committee of people from different backgrounds, genders, geographic areas is critical for creating safe, comfortable, and accessible facilities to serve the entire community. To help support and encourage diverse representation, the City should investigate opportunities to pay committee members a stipend for each meeting they participate in. Committee members can choose whether or not to accept a stipend; however, providing a stipend may be a determining factor in whether a person can serve on a committee. People who serve on committees may have to take time off from work, find childcare, or have other scheduling conflicts that must be addressed before they can

serve. Member of the City of Sacramento's Active Transportation Commission each receive a \$50 stipend per meeting. The City of Albuquerque should research what other cities do and if there are opportunities to bring such a model to Albuquerque.

## **State Level**

### **Idaho Stop/Stop As Yield**

The City should support and encourage the adoption of a state-level Idaho Stop/stop-as-yield law in New Mexico. An Idaho Stop, named after the state which first sanctioned the technique in 1982, allows a person bicycling to treat a stop sign as a yield sign then proceed through the intersection when safe to do so rather than coming to a complete stop. States such as Delaware, Minnesota, Colorado, Washington, Oregon, and others have also passed stop-as-yield laws. Current data and [research](#) show added safety benefits because people bicycling can mitigate risk to their advantage. The year after Idaho passed its law, bicyclist injuries from traffic crashes declined by 14.5%. In Delaware, bicyclist-involved crashes fell 23% in the 30 months after the law compared to the 30 months before the passage of the law. These laws are popular among people bicycling because of the safety benefits and increased level of comfort, as well as the fact that a person biking will not lose their momentum.

### **Statewide E-bike Rebate Program**

The City of Albuquerque should advocate for the Mexico State Legislature to develop a statewide e-bike program. A model for such a program is the State of Colorado, which responded to the success of Denver's rebate program and designated \$12 million for the [Colorado Energy Office](#) to roll out a statewide e-bike rebate. The Colorado Energy Office distributed most of its funding between August and December 2023 before temporarily pausing the program due to [higher-than-expected participation](#). Funds from this statewide program are also distributed through Denver's E-Bike Incentive Program.

Other states provide e-bike rebates directly or through state-funded programs, rather than distributing funding to local jurisdictions. For example, the state-operated [California Air Resource Board](#) funds a replacement vehicle program (including e-bikes and electric vehicles) through local air quality management districts, such as the [Bay Area Air Quality Management District](#).





## Programmatic Recommendations

In addition to direct investments in physical infrastructure there are various existing and potential programs that can further encourage individuals to ride a bicycle and create a greater culture around bicycling as a form of everyday transportation and recreation. This section highlights three categories of programmatic recommendations:

- Existing Programs to Continue
- New Programs to Initiate
- Partnerships and Programs to Encourage

It is important to emphasize that, as of 2024, the City does not have the funding or staffing resources to fully pursue the programs recommended in the plan. This list is intended to identify how additional funding or staff resources could be allocated in the future. Some of these programs could also be initiated by other agencies or organizations with targeted City support.

### *Existing Programs to Continue*

#### **Bicycle Encouragement Programs**

The City hosts two annual encouragement events that support mode shift through behavior change and create greater awareness of the presence of people bicycling along Albuquerque streets. As the City continues to implement its bikeway network, these programs provide opportunities to further build a culture around bicycling and the City should continue to host them.

##### **Bike to Wherever Day**

Each May, the City of Albuquerque hosts the annual Bike to Wherever Day in partnership with local advocates and business partners. The event is an adaptation of Bike to Work Day – the event rebranded following the COVID-19 pandemic and adopted the slogan “It doesn’t matter where you go, just bike!” – and is supported by a prominent public awareness campaign to promote bicyclist safety and encourage community members to try bicycling for transportation purposes. Bike to Wherever Day typically features a variety of pop-up stations throughout the city where participants can obtain informational materials, complete an annual survey, and pick up bicycle safety giveaway items.

##### **Bike Thru Burque Week**

Each October, the City hosts Bike Thru Burque Week, a weeklong promotional and

awareness event that encourages people to bike at some point over the course of the week. People can sign up to participate through the Bike Thru Burque website, including events such as a scavenger hunt, photo contest, and a team, individual, or kids riding challenge in which participants track their miles ridden and receive points based on destinations visited. Participants from the photo scavenger hunt and the highest-scoring teams can win prizes such as including gift certificates to local businesses or bicycle-related safety. Participants can also propose a ride in the crowdsourced map.

#### **Bicycle-Friendly Community Status**

The League of American Bicyclists/Bicycle Friendly Community Program (BFC) provides incentives, hands-on assistance, and award recognition for communities that actively support bicycling. A Bicycle Friendly Community welcomes bicyclists by promoting safe accommodation and encouraging people to bike for transportation and recreation. In 2005, the City was recognized with the Bronze level award, and in 2020, the City was named Silver, an upgrade from the Bronze status.

The City should complete an application each certification cycle (i.e., every four years). The application is an audit of equity and accessibility, engineering, education, encouragement, and evaluation and planning. As of 2023, the



City of Albuquerque maintains Silver status and should aspire for Gold status in upcoming application cycles. Recommendations from the 2020 Report Card and recent City efforts, as of the end of 2023, related to those recommendations are contained in Table 23. In future applications, the City should consider feedback provided by the League of American Bicyclists and work toward making recommended improvements pending available staffing resources and funding.

**Table 23. Recommendations from the League of American Bicyclists (2020) and Progress to Date**

Recommendation	Progress to Date
<b>1. Continue efforts to improve data-driven road safety operations and adopt a comprehensive road safety plan</b>	The City completed a Vision Zero Action Plan in late 2021 and a Year in Review Report/Action Plan Update in 2023 (approved at City Council in November 2023).
<b>2. Continue to expand the bike network throughout all areas of the city, and increase connectivity through the use of different types of low-stress bicycle facilities.</b>	The City has installed dozens of miles of new bikeways in the last four years through targeted projects, roadway upgrades, and restriping efforts. The 2024 Plan will help the City to continue to expand the low-stress bicycle network.
<b>3. Work with local League Cycling Instructors (LCIs) to offer Bicycle Friendly Driver training to motorists.</b>	Esperanza Bicycle Safety Education Center employs multiple LCIs who provide training in community settings and in public schools. The City has coordinated with the State of New Mexico on incorporating bicycle safety-related material into driver education programs.
<b>4. Hire a full-time Bicycle &amp; Pedestrian Coordinator for the City.</b>	The City has funded and posted for a full-time employee to serve as an active transportation planner, though the City has been unable to fill the position.
<b>5. Adopt a target level of bicycle use (percent of trips) to be achieved within a specific timeframe and ensure data collection necessary to monitor progress.</b>	MRCOG oversees a growing non-motorized counts program that is being used to establish rates of bicycling and changes in use over time.



Recommendation	Progress to Date
<b>6. Expand bicycle safety education to be a routine part of education for students of all ages, and ensure that schools and the surrounding neighborhoods are particularly safe and convenient for biking and walking.</b>	Bicycle safety education takes place at Albuquerque Public Schools (APS) through a partnership between the Parks and Recreation Department and APS, including bike rodeos. APS operates a Vision Zero for Youth Initiative that encourages students to safely navigate their routes to school as pedestrians and bicyclists
<b>7. Continue to increase the amount of high-quality bicycle parking throughout the City, including near bus stops.</b>	Bicycle parking is required as part of private development through the City's Development Process Manual. The City and Rio Metro RTD install bike parking in public places and at Rail Runner stations through travel demand management programs.
<b>8. Continue efforts to re-launch a new public bike share system to replace the Pace Bikeshare system that recently ceased operations.</b>	MRCOG and Rio Metro RTD evaluated opportunities to reintroduce a public bike share system but determined a publicly funded program was not viable. The City Planning Department administers the Shared Active Transportation Program Permit and Agreement, which allows for private shared micromobility operators to apply for a permit to serve the city.

## Esperanza Bicycle Safety Education Center

The Esperanza Bicycle Safety Education Center is operated by the Parks and Recreation Department out of a facility on the west side of Albuquerque, with plans to open an east side location in 2024. Esperanza focuses on bicycle education to increase the safety, self-sufficiency, and comfort of recreational, fitness, and utility riders alike, and provides classes and programs of varied types and topics, including bicycle safety, road use and traffic law, mechanics, and riding skills. The Center supports mechanical safety with the Open Bike Clinics at its shop, while providing Pop-Up Bike Clinics throughout the community. Esperanza also accepts donations of bikes, bike parts, and other bicycle-related items, which are refurbished for use through their ongoing programs.

Esperanza offers a range of programs and instruction techniques they utilize, depending on the needs of the organizations they partner with. Examples of programs offered by Esperanza include but are not limited to:

- Earn-a-bike classes
- Mechanical clinics
- Safe Routes to School programming
- Walking safety at elementary schools
- Bike rodeos
- Flat tire repair at middle schools



- Teaching adults to ride a bicycle
- Teaching kids to ride a bicycle
- Introduction to mountain biking
- Introduction to bike packing
- Adaptive cycling (primarily for adults this time)
- Hosting League of American Bicyclists Certified Instructor Trainings
- Educating driving instructors about people walking and biking

## Bikeways and Trails Map

The City updates and prints hardcopy bikeways and trails maps approximately every two years. In addition to the most up-to-date bikeway facilities, the map contains resources and information on City programs and resources, safety tips, biking regulations and frequently asked questions, and guidance on bringing bikes on public transit.

## Guaranteed Ride Home Program

The City's transit provider, ABQ RIDE, offers free guaranteed ride home service for community members who regularly use alternative modes of transportation instead of single-occupancy vehicles to ensure those individuals will not be stranded should an emergency arise. Eligible participants include those who commute to work or school by bike, walking, carpooling, vanpooling, or transit at least three times a week, a person.

## Open Space Division Programs

In addition to hiking, mountain biking, and horseback riding, the [Open Space Division](#) of the Parks and Recreation Department serves to protect and preserve the natural environment for the benefit of the Albuquerque resident and visitor trail users. Key products and programs include:

- Environmental education and interpretation for schools, youth, families, and adults through several outdoor activities, classroom programs, and community events to educate the public on the use of Major Public Open Space and Trails.
- Trail maps and informational pamphlets
- Sponsored hikes and special events to heighten awareness of the low-impact recreation and the protection of the natural state of Major Public Open Space
- Trail Watch Volunteers Program, which serves to educate the public about trail use ethics while noting maintenance needs.

Each of these programs involves an element of outdoor stewardship education, including Leave no Trace Ethics, proper use of trails in MPOS, and in some cases, trail design and management.

## Prescription Trails Program

The City's [Prescription Trail Program](#) is intended to make information available to all

residents about the importance of walking for health and how to get started in a self-directed or group program. The program guide provides information about specific parks and walking routes in the Albuquerque area, including details about the level of difficulty for each trail location, the length of each "loop," and what amenities are provided in each park facility. The program guide includes a walking log so the trail user can easily document the distances walked. Information is also provided on Walking Clubs and Mall Walking for those rainy days.

## New Programs to Initiate

### Bike Rack Program

The City should develop and implement a Bike Rack Program to proactively identify and install racks at key locations within the City right-of-way. As an initial step, staff should create and publicly share a GIS layer of where existing public and private bike racks are located. This data should be kept up to date as new bike parking is installed.

It is important to note that public funding cannot be used to improve existing private property, so locations for new bike parking must be within the City right-of-way as part of this program. The installation of bike parking must also meet ADA/PROWAG requirements. Per existing requirements, developers must



continue to provide adequate bike parking within their new developments or redevelopments to confirm Integrated Development Ordinance (IDO) requirements.

### **Launch Parties or Ribbon Cuttings for New Bikeways and Trails**

In coordination with the completion of bikeways and trail projects, the City should host launch parties or ribbon-cutting ceremonies as part of the City's standard bikeway and trail implementation procedures. Such events are a low-cost strategy that celebrates and publicizes new facilities and builds public awareness of bicycling and walking. As a low-cost/high-benefit program, it should become.

### **Parks and Trails Programs**

#### **Launch a Share the Trail Campaign**

Conflicts between multi-use trail users can be a major issue on popular, well-used trail systems like the Bosque Trail. Some communities have launched successful "share the trail" events to help educate users about safety and trail courtesy. Share the Trail campaigns can be run by agencies, nonprofits, or any user group (equestrian, hikers, etc.). These programs educate users about expected behavior and how to limit conflicts. Volunteers often give out brochures and engage with users in a non-confrontational way.

Volunteers can also report back to trail agencies about trail damage, erosion,

or vandalism. Media outreach should be included as well. Common strategies include a bicycle bell giveaway, handing out maps and information, posting signs, tabling, and 'stings' that reward good behavior. The City of Albuquerque could investigate opportunities to further pursue a campaign.

#### **Bike to Parks Program**

Encouraging bicycling to parks and along paved and unpaved trails is way to increase community health, decrease motor vehicle congestion and parking issues at parks, and maximize the use of public resources. A "bike to parks" program could distribute information about how and why to bike to parks. Elements may include:

- Distributing route information through maps, brochures, and online outreach
- Guided rides on trails and to parks
- Information kiosks
- Improved bicycle parking at trailheads and parks
- Outreach to existing groups (e.g., BikeABQ, senior and youth groups, schools, etc.)

## ***Regional Transportation Demand Management Program***

Transportation demand management (TDM) refers to a set of strategies and policies that seek to reduce single-occupancy vehicle travel, congestion, and carbon emissions, and increase rates of walking, riding transit, carpooling, and ridesharing as alternatives to driving alone. The City of Albuquerque currently operates various bicycle-focused programs that fall under the umbrella of TDM, including the installation of bike parking and encouragement programs such as Bike to Wherever Day. These programs could be expanded at a regional level to complement the types of infrastructure improvements identified in the 2024 Plan. Potential bicycle-related components of such a program are outlined on the following pages. Both significant staff time and financial resources are required to operate a TDM program.

### **Potential Elements of a Regional TDM Program**

- Bike parking
- Private business incentives
- Bicycle benefits program
- End-of-trip facilities
- Safe Routes to Schools
- Bicycle encouragement events





## Bike Parking

Easily accessible bike parking at popular destinations and transit facilities is a critical component to increasing the share of bicycling trips. With additional staffing and funding support, the City or MRCOG could expand bike-parking-related programs and provide clear guidance on location siting and maintenance policies. A regional bike parking program could offer two forms of parking: short and long-term.

- **Short-term parking** is intended for people visiting locations for less than four hours. Typical short-term parking racks include inverted U, post and ring, and bike corrals. Roll-up bike racks should be prioritized as they better accommodate e-bikes for short-term parking.
- **Long-term bicycle parking**, such as bike lockers, is oriented toward employees, residents, and public transit users who need to store their bikes for a longer period. Local initiatives around long-term bicycle parking include bike lockers at Rail Runner Express stations, which are managed by the Rio Metro Regional Transit District.



*Example of bike corrals and bike lockers*

## Private Business Incentives

Private employers often provide incentive programs to employees to encourage active transportation as a form of wellness and to reduce single-occupancy commuting trips and manage parking demand. Regional program administrators could create a **TDM Toolkit** that provides employers with resources related to a range of TDM strategies, including ride matching, bicycle equipment and safety training, transit user guides, and strategies for the efficient use of available parking. The toolkit could also contain case studies and examples of employer programs in other markets.

## Bicycle Benefits Program

**Bicycle Benefits** is a national program that incentivizes bicycling by partnering with local businesses to provide discounts to customers who bike. As of fall 2023, there are no participating businesses in New Mexico. However, the City could support this program by encouraging local businesses to participate and providing marketing support and advertising through encouragement events. Such a program could take place at the city or regional scale to amplify the impacts of the program; staff support for program coordination would be required.





## End-of-Trip Facilities

End-of-trip facilities, including bicycle parking and other facilities such as showers and clothing lockers, can be a determining factor in whether someone decides to make a bicycle trip. They enhance the bicycling experience by providing people biking with somewhere to park and somewhere to refresh themselves following their trip. Numerous studies have shown the value of these facilities in attracting bicyclists to employment and activity centers and in supporting multi-modal trips. In fact, in the online survey conducted in 2010, nearly 70% of the people who responded indicated that more bicycle parking would likely influence them to bike and/or use the trail system more often.

As mentioned previously, the City does not currently have a bike rack program, which would be an excellent way to encourage utilitarian bicycle trips to retail and other destinations. The City has no zoning requirement for end-of-trip facilities other than the bicycle parking requirements. Some businesses voluntarily provide end-of-trip facilities such as bike lockers, showers, and changing rooms for employees who commute to work. End-of-trip facilities can be incorporated into a TDM program.

## Safe Routes to Schools

Safe Routes to Schools (SRTS) is a popular program across cities, regions, and states

that focuses on creating active transportation options for students from elementary to high school, structured around the Es of Safe Routes: Engagement, Equity, Engineering, Encouragement, Education, and Evaluation. Both PRD and Albuquerque Public Schools are implementing elements of a SRTS program; there are opportunities to further these efforts and coordination through a regional TDM program.

## Bicycling Encouragement Events

Bike to Wherever Day and Bike Thru Burque could be expanded upon as part of a formal TDM program to be more regionally focused. Management of these event by dedicated staff could also create greater opportunities to cultivate partnerships with private businesses and community organizations.

## Partnerships and Programs to Encourage

This section describes programs that are led by external organizations, including public agencies and private entities, and partnership opportunities that could advance the City's goals of creating additional opportunities for Albuquerque community members and visitors to travel by bicycle.

## ABQ CiQlovía Open Streets Festival

ABQ CiQlovía is an annual event – organized by

the International District Healthy Communities Coalition (IDHCC), Presbyterian Community Health, and community members – that temporarily closes specific streets to people driving and opens them up for people to walk, bike, play, and reimagine the City's largest public space. Since 2017, the event has been on different routes in the International District. Over the past few years, the City's Vision Zero program has sponsored the event and staff have also worked with ABQ CiQlovía to coordinate and align with the City's Bike to Wherever Day and Bike Thru Burque events. City staff have also participated in the event to share information about transportation plans and/or projects occurring in the area. The City should encourage future CiQlovía events. When Bike Thru Burque and CiQlovía overlap, the City should coordinate with event organizers to co-promote each event.

## Albuquerque Public Schools

Elements of a Safe Routes to Schools program are being undertaken by Albuquerque Public Schools (APS), which recently began a [Vision Zero for Youth Initiative](#) through federal grant funding. In addition to developing a Vision Zero for Youth Action Plan, APS planning staff is working with 21 pilot schools to develop and implement training materials to encourage students to walk and bike to school and educate them about traffic safety. As part of its Vision Zero for Youth Initiative, in October 2023,



APS hosted [Walktober](#), an event to promote walking to school at different elementary and middle schools. APS is also pursuing a general awareness campaign about the need for traffic safety around schools and is interested in institutionalizing SRTS programs across the District so that programs are applied and overseen at the individual school level.

### **Rio Metro Regional Transit District Job Access Program**

The Rio Metro Regional Transit District's (RMRTD) Job Access Program is a continuation of MRCOG's previous program called Jobs Access Reverse Commute (JARC), a now discontinued federal program that provided taxi-based work transportation for low-income individuals. RMRTD continues to provide this service for Bernalillo County residents receiving Temporary Assistance for Need Families, those living within 150% of the Federal poverty line, seniors, and individuals with disabilities. Additional information can be found on RMRTD's [website](#).

### **Shared Micromobility – Bike and Scooter-share Programs**

A bicycle or scooter sharing system is a service in which bicycles or scooters are rented on a short-term basis to individuals at unattended stations or existing bike racks using electronic vending or a smartphone application. Bike and scooter share schemes allow people to make short-distance trips by borrowing a bike or

scooter from a kiosk, bike rack, or drop zone in one location and returning it to a kiosk, bike rack, or drop zone in another location.

In 2018, the City of Albuquerque created a Shared Active Transportation Program and permitting process for private bike and scooter sharing companies to apply for a permit to serve Albuquerque. The City's Planning Department administers the permit and agreement. Currently, there are no operators. The City should continue this permit program and also follow emerging best practices in shared micromobility to ensure the current policy framework supports the needs of Albuquerque residents and potential visitors looking for alternative transportation options.

### **University of New Mexico Bicycle Programs**

The University of New Mexico (UNM) is recognized as a Bronze level Bicycle Friendly University (BFU) by the League of American Bicyclists. UNM offers various services for bicyclists on campus, including bike racks, bike lockers, and a bike shop, which offers bicycle repair, maintenance, and rental bikes for recreation. Campus maps of bicycle racks and lockers are available online.

### **Bicycle Events and Awareness Programs**

#### **Bicycle Races and Group Rides**

Numerous bicycling events are held

throughout the year. These include races, skills competitions, and bike polo events. These events are tracked through some community calendars, such as [www.nmcy-cling.org](#), [www.usacycling.org](#), and [www.bikehubnm.com](#). Facebook pages have been created to promote these events, such as the Critical Mass Albuquerque and Duke City Classic pages.

#### **Bike Valet**

At events such as the International Balloon Fiesta, the Downtown Growers' Market, and City Summerfest events, local bicycle advocates or other groups provide bike valets. Bike valets can encourage people to bike to events instead of driving and serve to promote bicycling as a viable transportation option. Over the last 10+ years, bike valets have become increasingly popular and well-used. The City should continue to support and encourage bike valets and at large City events, the City should provide a bike valet to encourage people to bicycle to the events.

#### **Ghost Bike Memorials**

"Ghost bikes" are roadside memorials that commemorate the location where a bicyclist was killed. These memorials are typically bicycles painted white and are often decorated with flowers and other personal items or notes to recognize the individual.



## Previous Micromobility Programs

Downtown ABQ MainStreet Initiative, in partnership with MRCOG, launched a downtown pilot bike share program in May 2015 called BICI Bike Share. The pilot program featured 75 bikes and 15 stations and was funded by a PNM grant along with local private businesses. In 2016, the program moved under the management of the Rio Metro Regional Transit District (Rio Metro RTD) to expand the program beyond downtown. The program re-launched the program in April 2018 under the brand Pace ABQ with 200 bikes and 30 stations, and added an additional 50 bikes and 10 stations in June 2018. Though Rio Metro RTD had federal funding secured through the Transportation Alternative Program (TAP) for continued development of the bike share program, the bike share operator went out of business during the COVID-19 pandemic.

## Funding

### Federal and State Sources

#### New Mexico Department of Transportation

The New Mexico Department of Transportation (NMDOT) along with the Mid Region Council of Governments (MRCOG) administer and program federal funding allocated to the State and Region by USDOT/ Federal Highway Administration (FHWA). There are a variety of sub-allocated funds that are eligible only for pedestrian and bicycle facilities (Transportation Alternatives Program (TAP) as well as the sub-allocated large urban funds under the Surface Transportation Enhancement funding. There are also various opportunities to apply directly to USDOT/ FHWA for competitive grant funding as well as congressional earmarks. Local and Tribal entities must provide local match requirements for most federal funding opportunities.

#### New Mexico Legislature

During its annual legislative sessions, funds can be provided for bicycle projects through special appropriation bills (e.g., capital outlay requests or memorials).

## Local Sources

### Capital Implementation Program (CIP)

Funding for capital improvement projects is provided through the General Obligation (GO) bond program. Both the City of Albuquerque and Bernalillo County have set aside 5% of the Public Works Streets portion of their GO bonds to be used exclusively for bicycle projects, beginning in 1995. The GO bonds are obligated in 2-year cycles. Typically, this 5% set aside is used as matching funding for federally funded transportation projects that include bikeways. Parks and Recreation also receive funding for off-street facilities as part of the two-year bond cycle. In addition to the GO program, the City's Parks and Recreation Department also receives dedicated tax funding in a two-year cycle for recreational trails and off-street trail facilities.

Additional monies from the CIP (e.g., major pavement rehabilitation or specific roadway construction projects) may be used for bicycle projects. On-street bikeways will be incorporated into new roadway construction and street rehabilitation/resurfacing projects wherever feasible – particularly through the City's Annual Complete Streets Maintenance Program.

### Gross Receipts Tax

A 1/4-cent gross receipts tax for fixing existing streets, building new roads, expanding transit, and constructing bikeways/trails was



approved by voters in 1999. A set percentage (4%) of this revenue, or \$1.65 million biennially, is earmarked for trails used for both commuting and recreational travel; however, no dedicated funds were specifically identified for on-street bikeway improvements.

## Land Development

There also exists an opportunity to work with the private sector to implement bicycle projects. This is accomplished through right-of-way dedications, infrastructure improvements, and/or impact fees.

## Additional Funding Sources

Other funding opportunities include:

- City Council set aside funds
- Municipal bonds
- Public/Private Partnerships
- Metropolitan Redevelopment Area projects
- Tax Increment Financing (TIFs), Special Investment Districts (SIDs), and Public Investment Districts (PIDs)

## Additional Funding for Bikeway and Trail Facility Implementation

At present, the only source of recurring funding for bikeway and trail improvements is a 5% set-aside of transportation General Obligation (GO) bond money. Dedicated

bikeway or trail projects are often completed with federal funds, with GO bond money used as a local match (up to 20% of the total federal award). However, federal funds are competitive, require substantial staff resources to administer, and are not available at the levels needed to address the full range of desired improvements. While additional funds for capital improvements are needed, additional staff resources are also critical for administering programs and pursuing grant opportunities, particularly related to federal funding. Recommendations for additional funding include:

- Pursue a dedicated bikeway GO bond program that would allow for near-term implementation of higher-cost, high-impact projects (i.e., projects with a priority level of “very high” or “high”).
- Create a dedicated source of supplemental funding for spot improvements as part of the Complete Streets Annual Maintenance Program.
- Create a dedicated source of supplemental funding for spot improvements along paved multi-use trails and sidepaths.
- Continue to pursue federal funding through the programs overseen by the MRCOG and the NMDOT Planning Division (e.g., Highway Safety Improvement Program, Recreational Trails Program, Carbon Reduction Program, etc.).

- Pursue competitive grants through federal discretionary programs (e.g., RAISE and Safe Streets for All). Collaborate with MRCOG on grant funding applications and administration.
- Identify additional funds for local match needed to support federal funding applications.



**Table 24. Summary of Planning, Policy, and Programmatic Recommendations**

ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
1	Planning	<b>Annual Complete Streets Maintenance Program:</b> Enhance the existing program to include advanced planning for resurfacing needs and inclusive selection criteria for project locations. Identify supplemental funding.	Equitable, Useful, Implementable	Near-term	Miles of bikeways added or enhanced per year	\$\$	\$\$	<b>DMD, City Council</b>
2	Planning	<b>Annual progress reporting:</b> Annually staff should put together a memo outlining new bikeway and trail projects implemented the previous year. The memo should identify bikeways and trails implemented within vulnerability communities.	Equitable, Integrated	Ongoing	Annual memorandum	\$	\$	<b>DMD, PRD</b>
3	Planning	<b>Coordination:</b> Continue and expand the interface between bikes and buses, including such features as bicycle racks on all buses, bicycle racks and lockers at park and ride lot, and the guaranteed ride home program. Promote bike/bus programs through ABQ RIDE literatures, PSAs, Strive Not to Drive Week, Bike to Wherever Day, and Bike thru Burque.	Connected, Useful, Integrated	Ongoing	Transit boardings wth bicycles	\$\$	\$\$	<b>ABQ RIDE, DMD, PRD</b>
4	Planning	<b>Coordination:</b> Incorporate plan recommendations into ongoing City and regional planning initiatives.	Integrated, Implementable	Ongoing	N/A	\$\$	N/A	<b>DMD, Planning, PRD, City Council, MRCOG</b>
5	Planning	<b>Coordination:</b> Coordinate with the State of New Mexico to identify and implement walking/biking facilities through EXPO NM.	Connected, Equitable, Useful	Long-term	Routes identified and implemented through EXPO NM	\$	\$\$\$	<b>State of NM, Administration, City Council, DMD, Planning, PRD</b>
6	Planning	<b>Data collection:</b> Continue to support MRCOG's annual bike survey that is distributed at the City's Bike to Wherever Day.	Equitable, Useful, Integrated	Ongoing	Number of survey participants	\$	\$	<b>MRCOG, DMD, PRD</b>



ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
7	Planning	<b>Data collection:</b> Develop a map or GIS tool that will improve interagency knowledge of emergency access location and wayfinding information on trails.	Integrated	Long-term	Development of mapping tool	\$\$	\$\$	PRD, APD, Other First Responders
8	Planning	<b>Data collection:</b> Review, track, and analyze crash data to inform current and planned projects and to identify future projects.	Equitable, Connected, Integrated, Prioritized, Implementable	Ongoing	Annual analysis of crash data	\$	\$	DMD, PRD
9	Planning	<b>Data collection:</b> Coordinate and partner where appropriate with MRCOG on its Active Transportation Count Program.	Equitable, Integrated	Ongoing	Number of locations counted	\$	\$	MRCOG, DMD, PRD, Planning
10	Planning	<b>Data collection:</b> Track and monitor new bikeway and trail projects and keep GIS layer up-to-date.	Equitable, Connected, Integrated, Prioritized, Implementable	Ongoing	Quarterly data updates	\$	\$	DMD, PRD
11	Planning	<b>Data tracking:</b> Keep the existing bikeway and trails GIS shapefile up-to-date as new facilities are built. Ensure up-to-date data is reflected in the online bikeway and trail data interactive map.	Useful, Integrated	Ongoing	Quarterly data updates	\$	\$	DMD, PRD
12	Planning	<b>Design standards:</b> Design and construct facilities according to design standards/guidelines to improve safety of facilities. Adhere to the Design Guidelines in the DPM or adopted as part of this Plan when implementing projects unless strict adherence is not feasible. Any deviation must be documented by the project manager, including a rationale for the deviation.	Connected, Useful, Integrated, Prioritized, Implementable	Ongoing	Number of projects that deviate from design standards/guidelines	\$	\$	PRD, DMD, Planning





ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
13	Planning	<b>Future plans and studies:</b> Develop a Pedestrian Safety Plan or Active Transportation Plan that integrates biking, walking, transit, and micromobility.	Equitable, Integrated, Implementable	Long-term	Creation of plan	\$\$\$	\$\$\$	<b>Planning, DMD, PRD,</b>
14	Planning	<b>Future plans and studies:</b> Update the Arroyo Facilities Plan.	Integrated, Implementable	Long-term	Creation of plan	\$\$	\$\$	<b>PRD, Planning</b>
15	Planning	<b>Future plans and studies:</b> Update the Bollard Inventory to identify the location and design of all existing bollards on trails. Prioritize remediation of bollard installations that do not meet the Design Standards in City right-of-way.	Integrated	Medium to Long-term	Bollard inventory and remediation plan	\$\$	\$\$	<b>PRD, DMD, Planning</b>
16	Planning	<b>Maintenance:</b> Create on-street bikeways and paved multi-use trail maintenance plans and hire additional traffic maintenance staff. Ensure maintenance plan incorporate work order and tracking system.	Useful, Integrated	Medium to Long-term	Creation of maintenance plan	\$\$\$	\$\$	<b>DMD, PRD, Administration, City Council</b>
17	Planning	<b>Performance measures:</b> Identify performance standards and metrics for active transportation.	Equitable, Useful, Integrated, Implementable	Long-term	Creation of performance standards	\$	\$	<b>DMD, PRD, Planning</b>
18	Planning	<b>Project cost assumptions:</b> Develop a City-wide policy for incorporating maintenance considerations and funding as part of all new (or major renovation) trail construction projects.	Integrated, Implementable	Long-term	Creation of policy	\$\$	\$\$	<b>Administration, City Council, PRD, DMD, Planning</b>
19	Planning	<b>Project development:</b> Conduct proactive survey and right-of-way analysis for upcoming projects and consider life cycle and maintenance costs as part of project scoping.	Useful, Implementable	Medium to long-term	Number of projects completed per year	\$\$	\$\$\$	<b>DMD, PRD, City Council</b>



ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
20	Planning	<b>Project development:</b> Design, construct, and maintain the proposed projects based on the project prioritization list with higher ranking projects being a higher priority.	Equitable, Connected, Useful, Prioritized, Implementable	Ongoing	Priority level of projects completed each year	varies	varies	<b>DMD, PRD, Planning, Administration, City Council</b>
21	Planning	<b>Project development:</b> Establish native drought-tolerant grasses and plants next to trails, with a goal that over time, the natives will outcompete the puncture vine.	Integrated, Implementable	Long-term	Number of projects involving landscaping	\$	\$	<b>PRD, DMD, Planning</b>
22	Planning	<b>Project development:</b> For major trail projects, require the design engineer to include a concept plan for the long-term maintenance protocol that is envisioned (e.g., care of plantings, drainage issues, etc.).	Useful, Integrated, Implementable	Ongoing	Create of maintenance protocols for multi-use trails	\$	\$	<b>PRD, DMD, Planning</b>
23	Planning	<b>Project development:</b> Prioritize implementation of trail amenities projects. Obtain supplemental capital funding as needed for major projects and to provide trail amenities.	Integrated	Long-term	Number of trail amenities projects per year	\$\$	\$\$	<b>PRD</b>
24	Planning	<b>Project development:</b> Provide appropriate bikeways on all new or reconstructed bridges, underpasses, and overpasses, to the greatest extent feasible.	Equitable, Connected, Integrated	Ongoing	Number of new or reconstructed bridges with adequate bikeways	\$	\$	<b>DMD, PRD, Planning, NMDOT, MRCOG</b>
25	Planning	<b>Public information:</b> Create and maintain a webpage on the City's website to include all information about bicycling in Albuquerque.	Useful, Integrated	Near to medium-term	Creation of webpage	\$	\$	<b>IT, DMD, PRD, ABD RIDE</b>



ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
26	Planning	<b>Public information:</b> Include trail and bikeway dedication events as part of other public project planning. Continue to support Land Development Regulations enabling trail and bikeway dedication and construction.	Equitable, Connected, Useful, Integrated, Implementable	Ongoing	Dedications as part of public and private projects			<b>Planning, PRD, DMD</b>
27	Planning	<b>Public information:</b> Update, develop, and distribute a bicycle and trail map.	Integrated	Ongoing	Publication and distribution of bike and trail map	\$\$	\$\$	<b>DMD, PRD</b>
28	Planning	<b>Regional and stakeholder coordination:</b> Partner with regional and local agencies on programs and investments related to bikeway and trail data collection and facility implementation.	Connected, Integrated, Implementable	Ongoing	N/A	\$\$\$	\$	<b>MRCOG, DMD, Planning, PRD, ABQ RIDE, APD, Bernalillo County, AMAFCA, UNM, CNM, APS</b>
29	Planning	<b>Signage/wayfinding:</b> Create a signage and wayfinding plan, including a sign family for paved trails, bike boulevards, and other bikeways.	Useful, Implementable	"Near-term to medium-term: Fund and develop plan. Long-term: Plan implementation"	Creation of wayfinding plan	\$\$	\$\$	<b>DMD, PRD</b>
30	Planning	<b>Training/capacity-building:</b> Ensure that consistent, routine training of City of Albuquerque, MRCOG, and other jurisdiction staff is taking place related to national best practices in on-street bikeways and off-street multi-use trail planning.	Connected, Useful, Integrated, Implementable	Ongoing	Number of trainings per year	\$\$	\$\$	<b>DMD, PRD, Planning, MRCOG</b>
31	Planning	<b>Unpaved Trails:</b> Preserve and add equestrian facilities where appropriate.	Connected, Integrated	Ongoing	Total miles of unpaved trails	\$\$	\$\$	<b>PRD, DMD, Planning</b>



ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
32	Planning	<b>Updates to the Development Process Manual:</b> Update the City's DPM to reflect emerging best practices in bicycle planning and design and recommendations included in this plan.	Integrated, Implementable	Near-term	Approved updates to the DPM	\$\$	No additional cost if using existing staff resources	<b>DMD, PRD, Planning</b>
33	Policy	<b>Access to schools:</b> Evaluate waivers and variance requests for bicycle and pedestrian facilities around schools and within high vulnerability areas as identified by the Vulnerability Index.	Equitable, Integrated, Implementable	Near-term	Number of waivers/variance requests	\$	\$	<b>Planning</b>
34	Policy	<b>Advisory boards:</b> Investigate opportunities to pay people who serve on City boards and commissions (e.g., GAATC and GARTC) to encourage a greater and more diverse representation of people serving on these committees.	Equitable, Integrated	Long-term	Paying people for their time on committees	\$\$	\$\$\$	<b>Boards and Commissions, Administration, City Council, PRD, DMD</b>
35	Policy	<b>Advisory groups:</b> Continue to work with citizen advisory and advocacy groups to promote bicycling and pedestrianism, improve bicycle and pedestrian safety, and improve the implementation of new facilities in their advisory role.	Integrated	Ongoing	Advisory committee meetings and feedback on City efforts related to waking and biking	\$	\$	<b>DMD, PRD, Administration, City Council, ABQ RIDE</b>
36	Policy	<b>E-bike policy:</b> Collaborate with the State on a rebate program to encourage the adoption of e-bikes and reduce single-occupancy vehicle trips.	Useful, Integrated	"Near-term to medium-term: Evaluate program needs. Long-term: Identify funding sources"	Creation and implementation of e-bike incentive program	\$\$	\$\$\$	<b>State of New Mexico Legislature, Administration, City Council, Sustainability</b>



ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
37	Policy	<b>E-bike policy:</b> Develop a City policy that identifies appropriate types of e-bikes – among other micromobility devices – on paved trails. Requires City Council approval	Useful, Integrated	Ongoing	Adoption of policy by City Council	\$	\$	PRD, City Council
38	Policy	<b>Encouragement events:</b> Develop a new policy regarding Exclusive Use Permit for Trails Events.	Integrated	Long-term	Creation of policy	\$\$	\$	PRD, Planning
39	Policy	<b>Funding:</b> Evaluate the feasibility of a Parks, Open Space & Trails Foundation, which would allow tax-deductible contributions and encourage patronships.	Integrated	Long-term	Creation of Parks, Open Space & Trails Foundation	\$\$	\$\$	PRD
40	Policy	<b>Funding:</b> Identify dedicated funding for bikeway and trail project design, implementation, and maintenance.	Useful, Implementable, Prioritized	Ongoing	Creation of dedicated funding source	\$\$	\$\$\$\$	Administration, City Council, DMD, PRD
41	Policy	<b>Funding:</b> Identify funding and resources to create a City Bike Rack Program to install bike racks within public ROW and meeting ADA.	Equitable, Connected, Integrated	Long-term	Creation and funding for a bike rack program	\$\$	\$\$	Administration, City Council, DMD
42	Policy	<b>Micromobility:</b> Update the City's existing Active Transportation Ordinance and Permit Program that enables private shared micromobility operators to apply for a permit to serve residents with shared bikes and/or scooters. Updates should align with national best practices which have evolved since the ordinance originally passed in 2018.	Equitable, integrated, useful	Long-term	Completion of updates to permit program	\$	\$	City Council, Planning, DMD, PRD
43	Policy	<b>Staffing resources:</b> Provide full-time staff positions dedicated to trails and bikeways with appropriate office budgets to promote bicycling and trail use and planning within Albuquerque.	Equitable, Integrated, Implementable	Ongoing	Number of full-time employees	\$\$	\$\$	DMD, PRD, Administration, City Council



ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
44	Policy	<b>Traffic code:</b> Investigate changes to the traffic code that would allow people bicycling to cross a roadway following pedestrian control signals such as leading pedestrian intervals.	Equitable, Useful, Integrated, Implementable	Long-term	Changes to traffic code	\$\$	\$	Administration, City Council, DMD
45	Policy	<b>Traffic code:</b> Make the Idaho Stop or Stop as Yield legal in New Mexico.	Equitable, Useful, Integrated, Implementable	Medium to Long-term	Adoption of law	\$	\$	State of New Mexico Legislature, Administration, City Council, DMD, PRD
46	Policy	<b>Traffic code:</b> Reevaluate City of Albuquerque laws around walking and biking that may disproportionately impact marginalized communities.	Equitable, Integrated	Near to medium-term	Evaluation of existing laws and plan to address			Administration, City Council, APD, DMD, PRD
47	Programmatic	<b>Bicycle friendly community status:</b> Address recommendations from the League of American Bicyclists Bicycle-Friendly Communities. Continue to submit the Bicycle-Friendly Communities application every four years.	Equitable, Connected, Useful, Integrated	Ongoing	City submitting application every four years	\$	\$	DMD, PRD, ABQ RIDE
48	Programmatic	<b>Education:</b> Continue and expand Police Bicycle Patrols and dedicate a distinct percentage of their time to educational efforts on proper bicycling and driver behaviors.	Integrated	Long-term	Number of Police Bicycle Patrols per year	\$\$	\$	APD, PRD, DMD
49	Programmatic	<b>Education:</b> Maintain ongoing training programs through the Esperanza Bicycle Safety Education Center and coordinate on the APS Vision Zero for Youth Initiative.	Equitable, Useful, Integrated	Ongoing	Number of events per year	\$\$\$	\$\$	PRD





ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
50	Programmatic	<b>Encouragement events:</b> Continue supporting programs related to education, outreach, and encouragement. Identify funding to support bikeway and trail programming and education efforts.	Equitable, Useful, Integrated	Ongoing	Events per year; number of participants	\$\$	\$\$	PRD, DMD, Planning, Administration, City Council
51	Programmatic	<b>Encouragement events:</b> Continue to plan and implement Bike to Wherever Day and Bike thru Burque events.	Integrated	Ongoing	Events per year; number of participants	\$\$	\$\$	DMD, PRD, MRCOG, Planning, ABQ RIDE
52	Programmatic	<b>Encouragement events:</b> Encourage and coordinate with ABQ CiQlovía organizers to co-promote Bike Thru Burque and ABQ CiQlovía.	Equitable, Integrated, Implementable	Ongoing	Number of co-promoted events	\$	\$	DMD, PRD, Planning
53	Programmatic	<b>Encouragement programs:</b> Continue to encourage and support bicycle events and awareness programs such as bicycle group rides, bike valets, and ghost bike memorials.	Integrated	Ongoing	Create and maintain inventory of events	\$	\$	DMD, PRD
54	Programmatic	<b>Interagency programs:</b> Continue to provide ABQ RIDE's Guaranteed Ride Home Program.	Integrated	Ongoing	Number of program participants per year	\$	\$	ABQ RIDE
55	Programmatic	<b>Interagency programs:</b> Continue to support Rio Metro's Job Access Program.	Integrated	Ongoing	Number of program participants per year	\$\$	\$\$	Rio Metro
56	Programmatic	<b>Park programs:</b> Continue to provide and support environmental education and interpretation activities, programs, and events at Major Public Open Space and Trails.	Integrated	Ongoing	Number of events per year	\$\$	\$\$	PRD



ID	Category	Action	Relevant Plan Goals	Timeline/Next Steps	Measurement	Staff Resources	Financial Resources	Lead Agency, Coordinating Agency
57	Programmatic	<b>Parks programs:</b> Continue to provide and support the City's Prescription Trails Program.	Integrated	Ongoing	Funding level for program	\$\$	\$\$	PRD
58	Programmatic	<b>Parks programs:</b> Investigate opportunities to create a bike to parks program.	Equitable, Useful, Integrated	Long-term	Creation of program	\$\$	\$\$	PRD
59	Programmatic	<b>Parks programs:</b> Launch a share the trail campaign	Equitable, Useful, Integrated	Long-term	Creation of program	\$\$	\$\$	PRD
60	Programmatic	<b>Public information:</b> Heighten public awareness of bicycle and trail planning efforts through launch parties or ribbon cuttings for new bikeways and trails	Integrated	Ongoing	Number of press releases or ribbon cuttings celebrating new projects	\$	\$	Administration, City Council, DMD, PRD
61	Programmatic	<b>Regional transportation demand management program:</b> Create a regional TDM program that incentivizes and encourages bicycle travel and general reductions in single-occupancy vehicle travel.	Integrated	"Near-term: Evaluate program needs and partnership opportunities. Long-term: Identify funding and staff resources"	Creation of regional TDM program	\$\$\$	\$\$\$	MRCOG, DMD, PRD



THIS PAGE IS INTENTIONALLY LEFT BLANK.





# Acronyms and Definitions

# Acronyms

<b>AWDT</b> .....	Average Weekday Daily Traffic	<b>OSD</b> .....	Open Space Division
<b>AASHTO</b> .....	American Association of State Highway and Transportation Officials	<b>POST</b> .....	Parks, Open Space, and Trails
<b>ADA</b> .....	Americans with Disabilities Act	<b>ROW</b> .....	Right-of-way
<b>AMAFCA</b> .....	Albuquerque Metropolitan Arroyo Flood Control Authority	<b>PHB</b> .....	Pedestrian Hybrid Beacon
<b>APS</b> .....	Albuquerque Public Schools	<b>PRD</b> .....	Parks and Recreation Department
<b>APD</b> .....	Albuquerque Police Department	<b>PROWAG</b> .....	Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way
<b>BNA</b> .....	Bicycle Network Analysis	<b>RRFB</b> .....	Rectangular Rapid Flashing Beacon
<b>DMD</b> .....	Department of Municipal Development	<b>STIP</b> .....	State Transportation Improvement Program
<b>FHWA</b> .....	Federal Highway Administration	<b>TAP</b> .....	Transportation Alternatives Program
<b>GAATC</b> .....	Greater Albuquerque Active Transportation Committee	<b>TDM</b> .....	Transportation or Travel Demand Management
<b>GARTC</b> .....	Greater Albuquerque Recreational Trails Committee	<b>TIP</b> .....	Transportation Improvement Programs
<b>GIS</b> .....	Geographic Information Systems		
<b>HFIN</b> .....	High Fatal and Injury Network		
<b>ITE</b> .....	Institute of Transportation Engineers		
<b>KAFB</b> .....	Kirtland Air Force Base		
<b>LTS</b> .....	Level of Traffic Stress		
<b>MRCOG</b> .....	Mid-Region Council of Governments		
<b>MRGCD</b> .....	Middle Rio Grande Conservancy District		
<b>MTP</b> .....	Metropolitan Transportation Plan		
<b>MUTCD</b> .....	Manual on Uniform Traffic Control Devices		
<b>NACTO</b> .....	National Association of City Transportation Officials		
<b>NMDOT</b> .....	New Mexico Department of Transportation		





# Definitions

**Accessible** — describes a trail, or a portion thereof, which complies with the American National Standards Institute (ANSI) Guidelines and is accessible to people with disabilities.

**Activity Center** — location such as employment center, schools, downtown and uptown, entertainment, museums, etc. that tend to attract bicyclists for education, recreation, shopping or employment.

**At-grade Crossing** — a junction where multi-use trail, bike boulevard, or sidewalk users cross a roadway at the same level as motor vehicle traffic, as opposed to a grade-separated crossing where users cross over or under the roadway using an overpass or underpass.

**Bicycle (Bike)** — a human-powered vehicle with two or more wheels designed to transport by the act of pedaling one or more persons seated on one or more saddle seats on its frame.

**Bike Boulevard** — low-stress corridors with slow speeds and low vehicle volumes that feature traffic calming elements and enhanced crossing treatments to reduce through vehicle traffic and manage vehicle speeds. Though people biking share space with motor vehicles, the low-stress conditions ensure these bikeways appeal to people biking of all ages and abilities.

**Bicycle Network** — a system of public bicycle facilities that can be mapped and used by bicyclists for transportation and recreational purposes.

**Bike Route** — shared streets that utilize signage and pavement markings (i.e. sharrows) to indicate that bicyclists may be present and to help bicyclists connect to other facilities and local destinations.

**Bike Lane** — a lane on the roadway that has been designated by striping, signing, and pavement markings for preferential or exclusive use by bicyclists. Bike lanes or paved shoulders are part of the standard arterial and collector cross-section. At signalized intersections, bike lanes should have bicycle-sensitive actuation capabilities such as loop detectors, video detection, curbside push buttons, or other detection devices approved by the City Traffic Engineer.

Space along the edge of a roadway that utilizes striping to delineate a separate, dedicated space for people biking. Standard bike lanes are typically located at the road edge and do not provide additional vertical or horizontal separation from vehicular travel lanes.

**Bikeway** — a generic term for any road, street, path or way which in some manner

is specifically designated for bicycle travel, regardless of whether such facilities are designed for the exclusive use of bicycles or are to be shared with other transportation modes.

**Buffered Bike Lane** — bikeways with striped, horizontal space between the bike lane and the adjacent vehicle travel lane, which provides additional separation between bicyclists and moving vehicle traffic.

**Chicane** — an artificial feature used to slow traffic by creating extra turns in a road.

**Complete Streets** — an approach to planning, designing, building, operating, and maintaining streets that enables safe access for all people who need to use them, including pedestrians, bicyclists, motorists and transit riders of all ages and abilities.

**Crosswalk** — any portion of a roadway at an intersection or elsewhere distinctly indicated for pedestrian or bicyclist crossing by lines or other markings on the surface.

**Cycle Track** — a fully separated bikeway facility that support people biking in opposite directions. Cycle tracks can be located at sidewalk-level or at the same level as vehicle travel lanes if there is a form of physical separation.





**Directional or wayfinding signs** — signs typically placed at road and bicycle path junctions (decision points) to guide bikeway users toward a destination or experience.

**E-bike** — a variety of bicycles equipped with electric motors that provide assistance for riders either when pedaling or through a throttle. There are three classes of e-bikes depending on the level and type of assistance provided.

**Enhanced Crossing** — a street crossing that features a range of treatments that support bicycle travel along existing and proposed bikeways. Enhanced crossing along narrower and slower speed roadways include simpler treatments such as signage and striping; along roadways with higher speed and traffic volumes, treatments include rectangular rapid flashing beacons and pedestrian hybrid beacons.

**Geometric crossing improvement** — A range of potential treatments -- including marked crosswalks, median refuge islands, bulbouts, raised crossings, and stop control -- intended to support safe, comfortable bicycle crossings of lower-volume and lower-speed streets.

**Grade-separated crossing** — an overpass or underpass allowing multi-use trail users to cross a major roadway without motor vehicle conflict.

**Highway** — a road or thoroughfare, such as a street, boulevard, or parkway, which functions as a main route for any form of transport or travel and is available to the public for use.

**Long-term Project** — bikeway improvements that require moving curb lines or narrowing medians or constructing paved multi-use trails. A long-term designation does not mean the project will not or cannot happen in the near term, but these projects are generally higher in cost and complexity and typically take longer to finance and implement.

**Loop Detector** — a device placed in the pavement, real or virtual, at intersections to detect a vehicle or bicycle and trigger a signal to provide a green light for through traffic. Loop detectors are also used to count bicyclists on multi-use trails.

**Major Public Open Space** — an integrated system of lands and waters that have been designated as such in the Comprehensive Plan. The lands and waters and interests therein have been or shall be acquired, developed, used, and maintained to retain their natural character to benefit people throughout the metropolitan area by conserving resources related to the natural environment, providing opportunities for outdoor education and recreation or defining the boundaries of the urban environment.

**Means of Implementation** — a range of approaches for implementing a new bikeway or enhancing an existing facility, including as a standalone investment, through annual roadway resurfacing efforts, or as part of a larger roadway improvement project.

**Median** — the area in the center of the roadway that separates directional traffic. Medians may be painted and level with the surrounding roadway or raised using curb and gutter. Medians may include landscaping, concrete, striping or any combination thereof.

**Median Refuge** — an area within an island or median that is intended for pedestrians or bicyclists to be separated from travel lanes to wait for an opportunity to continue crossing the roadway.

**Midblock Crosswalk** — a legally established crosswalk that is not at an intersection.

**Multi-use Trail** — a separate pathway that is physically separated from motor vehicle traffic by a buffer or barrier and either within the highway right-of-way or within an independent right-of-way. Multi-use trails are designated by signs for use by non-motorized traffic only, including pedestrians, bicyclists, skaters, wheelchair users, joggers, other non-motorized users, and equestrians. Not all trails may accommodate all of these uses. Most trails are designed for two-way travel. Trails may be



either hard-surface or soft-surface; or paved or unpaved.

**Open Space Trail** — a linear corridor within open space or linking open space to other facilities. Open space trails include open space arroyos and open space links.

**Paved Trail** — a trail surfaced with asphalt, concrete, soil cement, or other hard, stabilized surface.

**Pavement Marking** — any marking on the surface of the pavement that gives directions to motorists and other road users in the proper use of the road. The MUTCD determines the standard marking in New Mexico for state and local use.

**Pedestrian** — someone who walks or journeys on foot; a walker.

**Pedestrian Hybrid Beacon (PHB)** — the pedestrian hybrid beacon (also known as the High Intensity Activated crosswalk, or HAWK) is a pedestrian-activated warning device located on the roadside or on mast arms over midblock pedestrian crossings. PHBs are recognized by FHWA as a proven countermeasures that improve safety.

**Plausible Near-term Project** — bikeway projects that are feasible through reconfiguration and do not require any additional right-of-way. Plausible near-term projects are usually lower cost and lower complexity and represent opportunities to build a network

quickly if funding becomes available. This designation does not necessarily indicate that a project will happen, but that the project could happen, pending available funding, limited utility conflicts, staff capacity, and availability of local contractors to design and perform restriping and other improvements among other potential constraints.

**Policy Goal** — a broad statement of intent providing guidance for action.

**Practical Uses** — when the primary purpose is to get to a necessary destination, such as to work or school, or to perform essential errands such as shopping for food or going to a doctor's appointment.

**Principle** — things we want to do or avoid doing, as we develop and implement the plan. Principles define how we will go about "doing business" to achieve the plan's goals.

**Raised Bike Lane** — one-way facilities that are located at sidewalk level or slightly elevated from the roadway to provide vertical separation from moving traffic. Raised bike lanes may have a buffer and/or a vertical element in between the bikeway and the roadway.

**Recreational Use** — when the primary purpose of a bicycle trip is for fun, fitness, training, or as a social activity.

**Rectangular Rapid Flash Beacons (RRFBs)** — user-actuated amber LEDs that supplement warning signs at unsignalized intersections or

mid-block crosswalks. They can be activated by pedestrians manually by a push button or passively by a pedestrian detection system. These are recognized by FHWA as proven countermeasures that improve safety.

**Road Diet** — A reduction in the number of motor vehicle travel lanes along a roadway in order to reduce speeds, improve safety, and reallocate space for other roadway uses, such as bike lanes.

**Separated Bike Lane** — bikeways with some sort of physical, vertical separation between moving motor vehicle traffic and the bike lane, such as plastic posts, bollards, curbs, parking stops, planters, raised bumps or parked cars. Also referred to as protected bike lanes, these facilities can be at street level, raised to sidewalk level, or a level in between the street and sidewalk level. Paint alone does not create a protected bike lane.

**Shared Roadway** — a shared roadway is any roadway that may be legally used by both motor vehicles and bicycles and is not specifically designated as a bikeway.

**Sharrow (Shared Lane Marking)** — a pavement marking symbol that indicates an appropriate positioning of bicyclists within a travel lane shared by both bicycle and motor vehicles. This is used in Albuquerque on low-traffic volume streets, typically classified as collector or below.



**Shoulder Bikeways (Paved Shoulders)** — a bicycle facility located along uncurbed arterials and collectors. It consists of a smooth paved surface that covers all or part of the roadway shoulder. Shoulder bikeways, or paved shoulders, are similar to wide curb lanes on roadways with curb and gutter.

**Sidepath** — two-way, off-street facilities that are shared among people biking and walking. Sidepaths are located within the public street right-of-way on the outside of the curb. Because sidepaths are located at curb level, they provide vertical separation between people biking and motor vehicle traffic. Sidepaths can be implemented in lieu of a sidewalk.

**Sidewalk** — the portion of a street or highway, beyond the curb or edge of roadway pavement, which is intended for use by pedestrians. Sidewalks are typically, but not always, curb-separated from the roadway and made of concrete, brick, asphalt, or other hard surface material.

**Single-track Trail** — a trail where users must generally travel in a single file and is named not for the physical structure of the trail but rather for the user. Single-track trails are typically 18-30 inches wide. Usually and almost always a soft-surface trail or unpaved natural surface trail. These trails are typically found on Major Public Open Space lands and are sometimes referred to as mountain bike

or hiking trails. Single-track trails disturb less ground and can be easier to maintain due to their narrow width. The narrowness of the trail tends to immerse the user closer to nature than a wider trail or dirt road.

**Traffic Volume** — the total number of motor vehicles that pass along a roadway segment over a period of time (e.g., a 24-hour period).

**Transportation or Travel Demand Management Program** — an institutional framework for implementing a set of TDM strategies. Such a program has stated goals, objectives, a budget, staff, and a clear relationship with stakeholders. It may be a division within a transportation or transit agency, an independent government agency, or a public/private partnership.

**Transportation Improvement Program** — a capital improvement program managed by the metropolitan planning organization and developed cooperatively by local and state transportation entities. TIP projects are drawn from and consistent with a statewide rural long-range plan and include a list of multi-modal transportation (a connected transportation system that supports cars, bicycles, pedestrians, and public transit) projects. All regionally significant projects must be in the TIP regardless of the intended funding source.

**Traffic Calming** — changes in street alignment, installation of barriers, and other physical measures employed to reduce traffic speeds and/or cut-through traffic volumes to enhance neighborhood and street safety, livability, and other public purposes. Traffic Calming measures may include diverters, speed humps, traffic circles, or pocket parks which allow through access by bicycles.

**Traffic Control Devices** — Signs, signals, push buttons, or pavement markings whether permanent or temporary, placed on or adjacent to a travel way by the authority of a public body having jurisdiction to regulate, warn, or guide traffic. MUTCD designates standards.

**Unpaved Trail** — a range of dirt or gravel paths that accommodate but are not limited to (unless posted and signed) equestrians, mountain bikers, hikers, joggers, and people walking who may prefer a soft walking surface (stabilized unpaved trails may also be suitable for wheelchair users depending on their ability). Unpaved multi-use trails are typically used for recreational purposes.

**Utilitarian Trips** — trips that are for everyday purposes, such as commuting or running errands, rather than for recreation.

**Wayfinding** — signs, maps, and other graphic or audible methods used to convey location and directions to travelers.





# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN

## APPENDIX A: PLANNING & POLICY FRAMEWORK



## Table of Contents

Overview and Summary .....	3
Policy Documents.....	7
City of Albuquerque/Bernalillo County Comprehensive Plan .....	7
Complete Streets Ordinance .....	9
Vision Zero Plans and Programs .....	9
Climate Action Plan .....	10
State, Regional, and County Planning Documents and Programs.....	10
Reference Documents.....	12
Implementation Programs .....	15
Recent / Ongoing Studies .....	15
Other Initiatives and Programs.....	18





# Overview and Summary

This comprehensive review identifies and summarizes local and regional policies and planning efforts to understand how they relate to and/or support the development of the 2024 *Bikeway and Trail Facilities Plan*. Reviewing these initiatives helps to reveal gaps in ongoing efforts to improve bicycling conditions across the City of Albuquerque and where there are opportunities for further progress.

Relevant documents and initiatives are organized into the following categories:

- Policy documents
- Regional Planning Documents and Programs
- Reference Documents
- Implementation Programs
- Recent / Ongoing Studies
- Encouragement Programs
- Advisory Committees
- Other Initiatives

Table 1 contains a summary of these documents and identifies their relevance to the 2024 Plan. Detailed summaries can be found in the sections below.

**Table 1. Applicability of Relevant Plans and Policies and Opportunities for Further Progress**

Category	Document	Relevance to the 2024 Plan	Opportunities for Further Progress Through the 2024 Plan
<b>Policy Documents</b>	<b>Comprehensive Plan (2017)</b>	Policy document that provides a vision for long-term growth and development priorities, including transportation and urban design. Contains high-level descriptions of bikeway facility types.	Incorporate relevant policies into bikeway prioritization to further support implementation of Comp Plan goals and policies.
	<b>Complete Streets Ordinance (2019)</b>	City Council Ordinance requiring the consideration of Complete Streets design principles and the needs of people walking and biking as part of all roadway projects.	Define desired bikeway facility types and their application based on City of Albuquerque road conditions.
	<b>Vision Zero Action Plan (2021) and Year in Review (2023)</b>	Outlines areas of action to address crashes resulting in serious injuries and fatalities for the city as a whole, and for vulnerable communities and vulnerable road users, in particular. Contains a city-level High Fatal and Injury Network (HFIN).	Incorporate safety data and Vision Zero analyses into bikeway prioritization.
	<b>Climate Action Plan (2021)</b>	Establishes the value of walking and bicycling as mitigation and resilience strategies and documents community desires to increase pedestrian and bikeway facilities.	Prioritize projects that are most likely to increase the share of trips taken by bicycle, producing a reduction in GHG emissions.
<b>Regional Planning Documents and Programs</b>	<b>Statewide Prioritized Bicycle Network Plan (2018)</b>	Identifies a system of priority tiers and design guidance for bikeway facilities along US and NM highways based on the role the roadway could play in statewide and regional bikeway systems.	Consider potential NMDOT-led improvements as part of 202 Plan recommendations.
	<b>Connections: 2040 Metropolitan Transportation Plan (2020)</b>	Documents current transportation trends while projecting future transportation needs and establishing regional investment priorities.	Develop recommendations that can form the basis for federal funding applications.
	<b>Long Range Bikeway System</b>	Contains a regional map of existing, planned, and proposed bikeways, based on input from public agency staff across the Albuquerque region, as well as proposed bikeways on future roads that will be built as a part of development projects.	Consider previously proposed enhancements as an input to the network development process. Incorporate bikeway and trail recommendations from the 2024 Plan into the Long Range Bikeway System.

Category	Document	Relevance to the 2024 Plan	Opportunities for Further Progress Through the 2024 Plan
	<b>MRCOG Non-Motorized Traffic Counts Program</b>	Program provides quantitative data on level of use along existing bikeways and trails.	The 2024 Plan can be used as a reference for prioritizing locations for data collection.
	<b>Regional Transportation Safety Action Plan Update (ongoing)</b>	Profiles the most dangerous locations across the Albuquerque metropolitan area and identifies appropriate safety countermeasures.	Recommendations from the RTSAP can support federal funding applications. Appropriate countermeasures can be incorporated into the final project design.
	<b>Bernalillo County Pedestrian and Bicycle Safety Action Plan (ongoing)</b>	Evaluates bicycle and pedestrian needs by subarea and identifies appropriate countermeasures and location-specific bicycle and pedestrian improvement projects across unincorporated areas of Bernalillo County.	Consider bikeway connections from unincorporated areas to city and regional routes.
<b>Reference Documents</b>	<b>Bikeways &amp; Trails Facility Plan (2015)</b>	Previous city-level bikeway and trail plan that establishes bicycle and trail-specific goals, proposes capital improvements, and outlines potential programs and policy recommendations.	Focus on an implementable network of bikeways and trails that suits the needs for people biking of all ages, abilities, and backgrounds. Create criteria for selecting, designing, and implementing bike boulevards. Reconcile the bikeway and trail network with the LRBS. Update recommendations for on-street bikeways and paved multi-use trails.
	<b>Development Process Manual (2020)</b>	Technical standards document for infrastructure improvements, which provides design guidance on a variety of public and private developments, including public right-of-way and bikeway and trail facilities design.	Incorporate emerging best practices in bikeway and trail design into City design standards.
	<b>Bicycle &amp; Trail Crossings Guide (2022)</b>	Identifies appropriate crossing facility types and countermeasures for improving roadway crossing conditions along bicycle and trail routes and decision-making guidance.	Apply crossing treatment guidance to trail and bike boulevard crossing locations and prioritize investments that will support a well-connected, low-stress network.
	<b>Bikeway Project Evaluation Process: Overview and Methodology (2022)</b>	Outlines the City's evaluation process for selecting bikeway projects based on the project benefits, technical feasibility, and the magnitude of cost.	Update the process to ensure consistency with the 2024 Plan goals and objectives. Formally adopt the evaluation process as part of the 2024 Plan.
<b>Implementation Programs</b>	<b>Complete Streets Annual Maintenance Program</b>	Leverages city-wide repaving and restriping program to implement on-street bikeways.	Identify projects that could be implemented through Complete Streets resurfacing, as well as complementary treatments to further enhance safety and user comfort.

Category	Document	Relevance to the 2024 Plan	Opportunities for Further Progress Through the 2024 Plan
	<b>Capital Project Development</b>	City-led bikeway and trail implementation projects, either as standalone projects or part of larger roadway improvements, utilizing funds from general obligations bonds and other City sources.	Identify clear project priorities and magnitude of cost estimates.
	<b>Private Development</b>	Site development projects are required to improve the roadway frontage, creating a means for implementing sidepaths. Trails and bikeways may be built on new roads accompanying private subdivision development.	Identify desired bikeway improvements that could occur through private development.
<b>Recent / Ongoing Studies</b>	<b>I-25 Bicycle Accessibility Study (2020; updated 2021)</b>	Evaluates gaps in the bikeway network caused by I-25 and identifies potential improvements.	Integrate and prioritize recommendations into the 2024 Plan as appropriate. Review the benefits of previously proposed I-25 bridge crossing locations.
	<b>Bike Gap Closure Project List Summary Profiles and Feasibility Study (2022 / 2023)</b>	Evaluates opportunities to close gaps on existing bikeways, based on priority list provided by GABAC (now GAATC). Feasibility Study conducts further engineering analysis on three priority locations: San Pedro Dr, Claremont Ave, and the Osuna Rd/San Mateo Blvd intersection.	Incorporate previously proposed bikeway and trail projects into the recommended network in the 2024 Plan, as appropriate.
	<b>Rail Trail Framework Plan, Alignment Studies, and Planning and Design (ongoing)</b>	Set of studies and plans that identify the alignment, preferred design, and desired amenities along the proposed Rail Trail. Design in progress on the first segments as of 2024.	Incorporate the Rail Trail alignment into the recommended network and identify potential on-street connections.
	<b>Rio Grande Trail Master Plan (ongoing)</b>	Identifies alignments for a 500-mile multi-use trail open to people hiking, biking, and horseback riding along the Rio Grande corridor from Texas to Colorado.	Coordinate on recommended trail alignments through the City of Albuquerque.
	<b>UNM Integrated Campus Master Plan (ongoing)</b>	Guides the University of New Mexico's decisions on the physical environment and character of each campus, including issues related to access and mobility.	Coordinate on recommended street and bikeway projects that connect to and travel through the UNM main campus.



## Policy Documents

### City of Albuquerque/Bernalillo County Comprehensive Plan

The *Comprehensive Plan* (2017) is the City's primary reference for policy priorities and the long-term vision document for managing growth. The document contains a range of policies and recommendations related to infrastructure development and desired urban form and is organized around a series of designated Centers and Corridors where additional development is encouraged.

#### Chapter 6 – Transportation

The [Transportation chapter](#) of the *Comprehensive Plan* describes existing conditions and general priorities for all modes of transportation, with an emphasis on the relationship between transportation and land use. Guiding transportation principles of the *Comprehensive Plan* include creating additional travel options and improved access to designated Centers, including by bicycle. The chapter defines different types of bikeway facilities, including bike lanes, raised bike lanes, buffered bike lanes, protected bike lanes, cycle tracks, shared lanes/bike routes, and bike boulevards, although the *Comprehensive Plan* generally refers to the 2024 Plan for recommendations and priorities. Bikeway facility design guidance is provided in the *Development Process Manual*.

Goals from the Transportation chapter that explicitly relate to the 2024 Plan are *italicized*, though providing additional transportation options supports additional plan goals. Each goal is supported by a series of policies, subsequent actions, and identified agencies for action to help translate these goals into implementable next steps.

**Goal 6.1 Land Use – Transportation Integration:** Plan, develop, operate, and maintain a transportation system to support the planned character of existing and future land uses.

**Goal 6.2 Multi-Modal System:** *Encourage walking, biking, and transit, especially at peak-hour commuting times, to enhance access and mobility for people of all ages and abilities.*

**Goal 6.3 Safety:** *Plan, develop, operate, and maintain a transportation system that provides safe access and mobility for all roadway users.*

**Goal 6.4 Public Health:** *Promote individual and community health through active transportation, noise mitigation, and air quality protections.*

**Goal 6.5 Equity:** *Expand mobility by providing safe and connected networks for non-auto travel and public transit for low-income and vulnerable populations.*

**Goal 6.6 Economy:** Invest in a transportation system that stimulates and supports job creation and business development and improves the movement of people, goods, and services

**Goal 6.7 System Effectiveness:** Implement and maintain an effective and efficient transportation system in a coordinated and cost-effective manner.

**Goal 6.8 Context:** Provide transportation investments that are responsive to context and natural setting.

Other Comp Plan Goals and Policies that are especially relevant and aligned with the 2024 Plan are in the Land Use, Urban Design, Parks & Open Space, and Resilience & Sustainability chapters.

#### Chapter 7 – Urban Design

The Urban Design chapter of the *Comprehensive Plan* outlines goals and policies that support creating walkable places and describes how Center and Corridor types interact with street design elements. The first goal and related policies of the Urban Design chapter are especially aligned with the purpose of the 2024 Plan.



Goal 7.1 Streetscapes & Development Form: Design streetscapes and development form to create a range of environments and experiences for residents and visitors.

Policy 7.1.3 Priority Street Elements: Design cross sections according to priorities for street elements within each Corridor, including where the Corridor passes through Centers, especially where right-of-way or budgets may be constrained.

Sub-policy a): Follow the priority elements for the Travel Way in Table 7-5 based on the Corridor type and location. A key component of the chapter is a Priority Street Element Matrix that links elements of the travel way and the pedestrian realm with the various Corridor and Center types. Street design elements in the matrix are marked as high, medium, or low-priority elements. Elements that are directly related to bicycling include bikeway facilities and multi-modal intersection design. Prioritization of other elements of the travel way and the pedestrian realm also contribute to creating a bikeable environment, including the number of travel lanes, freight considerations, and presence of medians, landscape-buffer zones, and on-street parking.

While the Priority Street Elements Matrix identifies to what degree a Center or Corridor should have bicycle facilities, the *Comprehensive Plan* points to other planning to specify the type of bikeway. Similarly, the *Comprehensive Plan* defers to the *Development Process Manual* for street design standards, as well as guidance on the allocation of right-of-way for constrained corridors.

**Figure 1: Priority Street Elements Matrix from the Comprehensive Plan**

ELEMENTS TO CONSIDER WHEN ALLOCATING RIGHT-OF-WAY	CORRIDOR & CENTER TYPES											
	MULTI-MODAL						COMMUTER					
	Downtown	Urban Center	Activity Center	Employment Center	Village Center	Other	Downtown	Urban Center	Activity Center	Employment Center	Village Center	Other
<b>STREET DESIGN ELEMENTS</b>												
<b>Travel Way Realm</b>												
Number and Width of Travel Lanes (single-occupancy vehicle capacity)	M	M	M	H	L	H	M	M	M	H	M	H
Dedicated Transit Lanes/Guideways	L	L	L	L	L	L	L	L	L	L	L	L
Transit Signal Priority/Queue Jump	M	L	L	L	L	M	L	L	L	L	L	L
Freight <sup>†</sup> (wider lanes, large turning radii)	L	L	L	H	M	M	M	M	M	H	M	M
Bicycle Facilities**	M	H	H	L	M	M	L/H**	L	L	L	M	H
Medians (divide high-speed traffic, provide pedestrian refuge)	M	H	H	M	M	M	M	M	H	M	H	H
Single-Occupancy Vehicle Intersection Design (turning lanes)	L	M	M	H	M	M	M	M	M	H	M	H
Multi-Modal Intersection Design (reduce crossing distance, provide refuges)	H	H	H	M	H	M	H	M	M	M	M	M
<b>Pedestrian Realm</b>												
Wide Sidewalks (i.e., wider than minimum 6' clear width)	H	H	M	M	H	M	M	M	M	L	M	L
Transit Stop/Station Features	M	M	M	L	H	L	H	M	M	L	M	L
Landscape/Buffer Zone (furnishings, street trees, seating, utilities <sup>††</sup> )	H	M	M	M	M	M	M	M	M	M	H	H
On-Street Parking	M	L	L	L	M	L	L	L	L	L	L	L

H = High Priority Element<sup>††</sup> / M = Medium Priority Element<sup>††</sup> / L = Low Priority Element<sup>††</sup>

Note: Table 7-5 of the Comprehensive Plan shows a second part of the matrix.





## Parks & Open Space

The Parks & Open Space chapter (Chapter 10) of the *Comprehensive Plan* provides Goals and Policies that aim to conserve land from development and provide visual, social, and psychological relief from the built environment to improve quality of life. Trails serve both recreational and commuting bicyclists' needs by connecting parks with neighborhoods, shopping areas, and activity centers. The following Goal and Policy are specifically aligned with the 2024 Plan:

Goal 10.2 Parks: Provide opportunities for outdoor education, recreation, and cultural activities that meet community needs, enhance quality of life, and promote community involvement for all residents.

Policy 10.2.3 Multi-use Trails: Connect parks by designing, building, and maintaining trails to accepted standards.

## Resilience & Sustainability

The Resilience & Sustainability chapter (Chapter 13) of the *Comprehensive Plan* provides a holistic perspective on Albuquerque's long-term challenges that tie together patterns of growth, interactions with the natural environment, and how these patterns affect community health and the ability to adapt to a changing environment. The BTFP emphasizes a prioritized and implementable bikeway network that leverages ROW within existing facilities rather than new facilities and is therefore more resource-efficient. The following Goal and Policy are directly relevant to the BTFP Update:

**Goal 13.5** Community Health: Protect and maintain safe and healthy environments where people can thrive.

Policy 13.5.2 Healthful Development: Encourage public investments and private development that enhance community health.

Sub-policy b) Ensure access to parks and open space for all residents by walking, biking, and driving to provide opportunities for passive and active recreation in the outdoors and encourage healthful connections to nature.

## Complete Streets Ordinance

The Complete Streets Ordinance, originally passed in 2015 and updated in 2019, commits the City of Albuquerque to the consideration of the needs of people walking and biking as part of all roadway projects, including rehabilitation and new road construction. The Ordinance highlights the need to create a well-connected transportation network that serves all roadway users and emphasizes the use of national best practices and in the application of Complete Streets design principles. The ordinance also asserts equity should play a key role in project implementation and prioritization by examining contextual factors, such as low-to-moderate income, the number of elderly residents and people with disabilities, and traffic fatalities. The Complete Streets Annual Maintenance Program, discussed in the Implementation Program section, is one of the primary mechanisms for executing the Ordinance.

## Vision Zero Plans and Programs

The [\*Vision Zero Action Plan\*](#) (2021) outlines areas of improvement for the City of Albuquerque and identifies strategies for eliminating traffic fatalities and severe crashes by 2040. The plan places particular emphasis on vulnerable communities, defined as parts of the city where individuals are more likely to rely on walking, bicycling, and taking transit, and vulnerable road users, which refers to people walking, biking, and taking transit, people with disabilities, seniors, and children.

The *Vision Zero Action Plan* outlines six thematic goals and lists implementation actions, timeframes, lead agencies, and performance indicators. While each goal contributes to creating safer and more comfortable streets for people to bike, the walking and rolling thematic goal includes strategies such as creating more transportation options, removing barriers through design improvements, and developing and promoting incentive programs.

The *Year in Review Report /Action Plan Update* (2023) evaluates the progress made over the first year following the completion of the *Vision Zero Action Plan*. In addition to progress to date, the document



identifies barriers to implementation and specific strategies that the City should pursue. The report also consolidates action items into the **four thematic goals** and promotes a Safe System Approach to reducing crash risks in which responsibilities are shared among a range of stakeholders and roadway users:

1. Safe, multimodal street designs
2. Culture of safety
3. Shift to active modes
4. Data and transparency

Specific **action items** for each category are prioritized into three levels:

1. Sustainable Vision Zero Program: Foundational actions that are crucial for the City to establish a robust Vision Zero program.
2. Transformative Next Steps: Actions that will be the most beneficial toward eliminating traffic deaths and serious injuries, have a high feasibility of being implemented, and require relatively low resources.
3. Supporting Actions: Additional actions that are less impactful but will help to incrementally achieve Vision Zero.

## Climate Action Plan

Following a City Resolution (R-19-187) to reduce its GHG emissions by 26-28% below 2025 levels by 2050, the City adopted a [Climate Action Plan](#) (2021) containing a range of mitigation strategies, including improving bikeway infrastructure. The plan is structured around key themes, such as clean transportation, and highlights the need to consider frontline communities that will be impacted “first and worst” by climate change. The plan generates many of its recommendations from the results of a community survey in which participants see public transit and active transportation options – including bike lane upgrades and/or expansion – as key priorities for reducing transportation emissions. The plan’s clean transportation recommendations include creating and improving walking and bicycling infrastructure and investing in sidewalk improvements, especially in low-income and older neighborhoods. Other recommendations center around improving transit access and amenities.

## State, Regional, and County Planning Documents and Programs

### *New Mexico Statewide Prioritize Bicycle Network Plan (NM Bike Plan)*

The Statewide Prioritized Bicycle Network Plan (NM Bike Plan), prepared by NMDOT in 2018, identifies a system of priority tiers and design guidance for bikeway facilities along US and NM highways based on the role the roadway could play in statewide and regional bikeway systems. The priority tiers are accompanied by design guidance, including the appropriate bikeway facility type based on roadway conditions (i.e., posted speeds and traffic volumes) and surrounding land use context (i.e., urban versus rural). The intent of the NM Bike Plan is for the priority tiers and design guidance to be referenced during major rehabilitation or reconstruction projects, though NMDOT and/or local agency partners may choose to pursue improvements proactively. Key Tier I corridors in Albuquerque include Coors Boulevard, Paseo del Norte, Tramway Boulevard, and 2<sup>nd</sup> Street.

### *Connections: 2040 Metropolitan Transportation Plan*

The [Connections 2040 Metropolitan Transportation Plan](#) (MTP), developed by the Mid-Region Council of Governments (MRCOG), is the long-range regional transportation plan for the Albuquerque Metropolitan Planning Area. The MTP documents current transportation conditions and projects regional travel patterns based on anticipated levels of population growth and the distribution of housing and jobs. The MTP includes a long-term list of anticipated investments intended to help the region address its transportation needs and



covers a variety of modes, including active transportation, transit, roadways/motor vehicle travel, and freight. The plan also explores the linkages between transportation investments and economic and environmental resiliency.

The MTP plays a critical role in the distribution of federal funds. Projects must be included in the MTP or consistent with MTP goals and strategies, to receive federal funds. Short-term projects – including bikeway and trail improvements – are evaluated using a prioritization process that rewards projects that address MTP goals and that are identified in local plans, such as the *Bikeway and Trail Facilities Plan*.

The chapter in the *Connections 2040 MTP* on active transportation highlights regional safety issues, mode shift strategies, opportunities to close network gaps, and the health benefits of active transportation. Increasing transportation options, bringing people and destinations closer together, and reducing emissions through alternative modes of transportation are all highlighted as regional priorities in the MTP.

### ***Long Range Bikeway System***

The [Long Range Bikeway System](#) (LRBS) is a regional inventory of existing and proposed bikeways and trails that is developed and maintained by MRCOG. In addition to coordinating the regional network of bikeways and trails, the LRBS map is used by public agencies to require improvements by private developers as part of site improvement projects and to identify locations where easements for bikeway and trail connections are required as part of master-planned developments. While the LRBS generally aligns with the City of Albuquerque's network of existing and planned bikeways, the 2024 Plan provides the opportunity to review and refine the LRBS network within city limits.

### ***MRCOG Non-Motorized Traffic Counts Program***

MRCOG operates a series of permanent counters along multi-use trails around the region and is developing a Non-Motorized Traffic Counts Program for regional entities to partake in and leverage data regarding walking and bicycling. The intent is to expand the program to better capture regional bicycling patterns, as well as trends in active transportation travel over time.

### ***Regional Transportation Safety Action Plan***

The update to the Regional Transportation Safety Action Plan (RTSAP), completed Spring 2024, applies recent crash data and emerging national best practices in safety analysis to identify general safety strategies and appropriate countermeasures that can be applied to address locations with high rates of crashes. A guiding principle of the RTSAP is that roadways in the Albuquerque region should acknowledge the needs of commuters while prioritizing safety for all modes over speed. The RTSAP update features profiles of the most dangerous locations in each jurisdiction in the Albuquerque metropolitan area and identifies a potential safety project that could improve conditions at a specific location. In addition to drawing attention to areas with safety issues, the RTSAP allows local agencies to apply for federal funding under the Safe Streets for All Program.

### ***Bernalillo County Pedestrian & Bicycle Safety Action Plan***

Bernalillo County is currently updating its Pedestrian and Bicycle Safety Action Plan, previously completed in 2012, to incorporate recent crash data and identify project priorities for unincorporated areas. The Safety Action Plan considers bicycle and pedestrian needs by subarea, the frequency and sources of crashes by location, and identifies appropriate countermeasures and location-specific bicycle and pedestrian improvement projects. The 2024 Plan includes recommendations for corridors that transcend jurisdictional boundaries and provide important regional connections, and defers to the Pedestrian & Bicycle Safety Action Plan for project recommendations in unincorporated areas.



## Reference Documents

### ***Bikeways & Trails Facilities Plan***

The City's previous [Bikeways and Trails Facilities Plan](#) (2015) considers on-street bikeways and both paved and unpaved trails. The plan contains an evaluation of the existing facility conditions, establishes a planning and policy framework, identifies a recommended network including gaps and high-priority projects, and recommends programs that support bicycling and trail activities. The plan also includes a design manual that outlines an interagency coordination process, intersection design guidelines, wayfinding guidance, and maintenance and operations procedures. (Much of the design guidance has been incorporated into or superseded by the Development Process Manual).

#### **Plan Vision**

*The City will provide access for cyclists, pedestrians, and trail users to all areas of Albuquerque to encourage cycling and walking as viable transportation options and to provide recreation opportunities, which result in an improved quality of life in the Albuquerque Metropolitan Area.*

#### **Plan Goals**

1. Improve and enhance cycling and pedestrian opportunities.
2. Develop a continuous, interconnected, and comprehensive system of bikeways and trails.
3. Enhance maintenance of all bikeways and trails.
4. Increase use of the bikeway and trails network.
5. Increase public awareness and education related to bikeways and trails.
6. Recognize and leverage the bikeway and trail network as an integral part of economic development and quality of life in Albuquerque.
7. Streamline administrative practices and coordination.

Recommendations include capital improvements; programs supporting outreach, education, training, and awareness related to bicycling; and state and local policy changes to safety, enforcement of laws, design guidelines, and improving design review procedures. Network recommendations were generally incorporated into the Long Range Bikeway System, maintained by MRCOG. Notably, the plan does not specifically emphasize facilities that are comfortable for all ages, abilities, and backgrounds and does not assess the quality of conditions along existing bikeways.

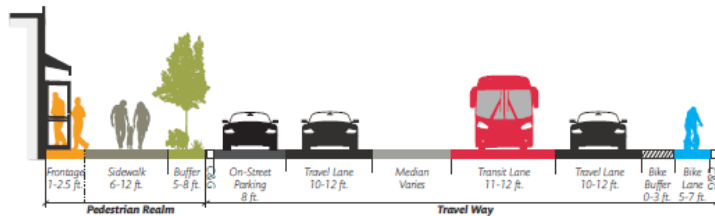
### ***Development Process Manual***

The [Development Process Manual](#) (DPM), which was subject to comprehensive updates completed in 2020, provides design standards and guidance on public infrastructure that is to be installed or improved as part of public capital improvement projects or privately-funded site development. The DPM features a comprehensive Transportation chapter that includes bikeway and trail facility type definitions and design elements. Though the DPM generally encourages wider bike lanes and buffers on certain designated Corridors and higher classification roadways (see Figure 1), the DPM does not include specific guidance on facility selection or how design should vary based on traffic speeds and volumes. The DPM points to the Long Range Bikeway System and the 2015 *Bikeways and Trails Facilities Plan* for the specific location of new or enhanced bikeways. The DPM notes national bikeway guides as references, including the AASHTO *Guide for the Development of Bicycle Facilities*, the NACTO *Urban Bikeway Design Guide*, and the MUTCD.

While the DPM provides practical design guidance, there are some limitations and opportunities for updates. In particular, guidance on crossing spacing does not consider trail crossings or the needs of people biking

along bike boulevards. Subsequent City of Albuquerque design documents, including the *Bicycle and Trail Crossings Guide* and the *Bike Boulevard Toolkit*, should be used as references. A limitation of the DPM is that it is organized primarily around the Centers and Corridors structure, though many bikeways are better suited for parallel corridors. Another issue is the limited discussion of sidepaths, which are presented as an alternative to sidewalks rather than a primary strategy for implementing low-stress bikeways along busy streets that would otherwise be unappealing to most people biking.

**Figure 2. Street Element Dimensions Table and Graphic from the DPM (Table 7.2.29)**



Corridor Type / Classification	Location	Design Speed (MPH)	Pedestrian Realm			Travel Way		
			Frontage Zone (ft.)	Sidewalk Width (ft.)	Landscape / Buffer Zone (ft.)	Bike Lane Width (ft.)	Bike Buffer (ft.)	Travel Lane Width (ft.)**
Premium Transit	Inside Center	30-35	1-2.5	10-12	6-8	6-6.5	0-3	10-12
	Outside Center	35-40	1-2.5	8-10	6-8	6-7	1.5-3	10-12
Major Transit	Inside Center	30-35	1-2.5	10-12	6-8	5-6.5	0-3	10-12
	Outside Center	35-40	N/A	6-10	6-8	6-7	1.5-3	10-12
Multi-modal	Inside Center	30-35	1-2.5	10-12	6-8	5-6.5	0-3	10-11
	Outside Center	35-40	N/A	6-10	6-8	6-7	1.5-3	10-11
Commuter	Inside Center	30-35	1-2.5	10	6-8	5-6.5	1.5-3	10-12
	Outside Center	40-50	N/A	6	6-8	6-7	3-5	10-12
Main Street	Main Street	25-30	1-2.5	10-12	6-8	5-6.5	0-3	10-11
Other Arterial	Inside Center	30-35	1-2.5	10	6-8	5-6.5	0-3	10-11
	Outside Center	35-40	N/A	6	5-6	6-7	1.5-3	10-11
Minor Arterial	Inside Center	30-35	1-2.5	10	6-8	5-6.5	0-3	10-11
	Outside Center	35-40	N/A	6	5-6	6-6.5	1.5-3	10-11
Major Collector	Inside Center	25-30	1-2.5	10	5-6	5	0-3	10-11
	Outside Center	30-35	N/A	6	5-6	5-6	0-3	10-11
Minor Collector	Inside Center	25-30	1-2.5	10	5-6	5	0-3	10-11
	Outside Center	30-35	N/A	6	5-6	5-6	0-3	10-11
Major Local	Inside / Outside Center	18-30	1-2.5 / N/A	5	5-6	Shared Lane**		See <a href="#">Part 7-4(J) Local Streets</a>
	Inside / Outside Center	15-25	1-2.5 / N/A	5	4-6	N/A	N/A	

\* Not including the gutter pan.

\*\* Dedicated bicycle infrastructure may be appropriate along some major local roads. In these circumstances, use the design characteristics of a minor collector (inside Center). See [Part 7-4\(J\) Local Streets](#) for more information.

\*\*\* See [Part 7-4\(G\) Public Transit](#) for additional guidance on travel lane widths for roads with transit service.

## Bicycle and Trail Crossings Guide

The purpose of the City of Albuquerque *Bike and Trail Crossings Guide* (2022) is to “provide clear and consistent guidance for the design and application of bicycle and pedestrian crossings.” The guide contains two main parts; the first part describes appropriate countermeasures for improving roadway crossing conditions along bicycle and trail routes, while the second part defines the decision-making process for selecting the appropriate crossing facility type. Factors that inform the crossing type include the level of traffic, posted speed, and number of lanes to cross.

The *Crossings Guide* is actively used as a reference by City staff when identifying appropriate crossing types and locations and complements the guidance on the desired spacing of crossings contained in the DPM. Depending on the context, recommended crossings range from simple crosswalk markings to more robust treatments such as rectangular rapid flashing beacons or pedestrian hybrid beacons.



***Bikeway Project Evaluation Process: Overview and Methodology***

The Bikeway Project Evaluation Process, first developed in 2022, outlines the methodology for prioritizing bikeway and trail projects from three perspectives: project benefits, technical feasibility, and magnitude of costs. The three considerations are intended to be complementary, though project feasibility and magnitude of cost may supersede project benefits when decisions are made about which projects to implement. There is an opportunity to both formally adopt the Bikeway Evaluation Process as part of the 2024 Plan and to update the evaluation criteria to be consistent with the plan’s vision and goals.

**Project benefits** are measured using various qualitative and quantitative criteria, with adjustment factors applied to weight certain considerations (i.e., safety, transportation equity, and connectivity) more heavily. Public input to this methodology included feedback from staff at public agencies in addition to members of the Greater Albuquerque Active Transportation Committee.

***Table 2. Project Benefits Criteria and Components for the Bikeway Project Evaluation Process***

Criteria	Component
Safety	High Fatal and Injury Network
	Total Crashes
	Mode-Specific Crashes
Transportation Equity	Vulnerable Communities Index
Connectivity	Network Connections
	Access to Key Destinations
Facility Improvements	Current vs. Proposed Facilities
Level of Use	Strava Data Monthly Users
Land Use Context	Comp Plan Center Designation
	Employment Activity

**Technical feasibility** factors are generally considered based on whether the project could be implemented within the existing curb-to-curb space, as well as whether a project location is included on the MRCOG network of road diet candidates. Projects are not intended to be ranked by feasibility, though the following considerations are critical for understanding the challenges associated with implementation:

- Right-of-way
- Topography/Terrain
- Jurisdiction/coordination requirements
- Drainage issues
- Land use context
- Desired facility type
- Impacts on vehicle traffic





The **magnitude of cost** consideration uses general engineering assumptions to identify the resources needed to implement projects ranging from signage and striping to capital-intensive projects such as a bridge over the interstate or a major roadway reconstruction. Cost estimates are intended to be complementary to project benefits.

## Implementation Programs

### *Complete Streets Annual Maintenance Program*

The City of Albuquerque directs a Complete Streets Annual Maintenance Program that incorporates Complete Streets principles into restriping plans when roads are resurfaced. The program is one of the primary mechanisms by which the City's [Complete Streets Ordinance](#) is put into practice and has led to tangible changes to the configuration of roads in Albuquerque in ways that help improve safety and create more space for people walking and biking. In 2022 alone, the program resulted in 10.7 miles of new or enhanced bikeways and 2.7 miles of widened bike lanes. The program is also noteworthy as it provides an opportunity to install bikeways across the city, which allows residents to get used to seeing multi-modal facilities in all neighborhoods. and increases expectations about the presence of people walking and biking.

### *Capital Project Development*

Larger capital improvements, including projects that require expanding or reconstructing part or all of a roadway or building a new trail, are implemented through the City's Capital Improvement Program. As part of the City's General Obligation (GO) bond program, 5% of funds are set aside for bikeway facilities, which ensures a modest but consistent stream of funds for implementation. That money is frequently used as a local match for federal funding applications through the Transportation Improvement Program, managed by MRCOG. The recent federally-funded Bike Gap Closure project resulted in a road diet and the installation of bikeways along Alexander Blvd between Comanche Rd and Mission Ave. Projects may also be designed and implemented through discretionary funds available to each city councilor.

### *Private Development*

On-street bikeways, sidepaths, and trails are often implemented alongside road improvements associated with private site development projects. The Long Range Bikeway System is the primary reference document for whether bikeways or trails should be included as part of site development requirements, while bikeways must be designed following the standards contained in the DPM.

## Recent / Ongoing Studies

### *I-25 Bicycle Accessibility Study*

The *I-25 Bicycle Accessibility Study* (2020; updated 2021) documents potential bikeway improvements along existing and proposed crossings of I-25 from Menaul Blvd to Tramway Blvd. The study uses previously proposed improvements and new crossings as a starting point, including recommendations from the 2015 *Bikeways and Trails Facilities Plan* and the Long Range Bikeway System. The study relied on feedback from a Technical Working Group and the MRCOG Active Transportation Committee to identify challenges and review potential improvements. Technical analyses included socioeconomic data, destinations, connections to public transit, crash data, Strava data, bicycle level of service, and a road diet analysis.

The study resulted in recommended improvements to most of the existing crossings (including crossings of Frontage Roads), ranging from signage improvements to enhanced bikeways, as well as several corridors that run parallel to I-25 and connect to east-west crossings. The study also evaluated three potential dedicated bicycle/pedestrian crossings, as identified in the Long Range Bikeway System. While dedicated crossings would provide clear benefits, the crossings would also



require major capital investments and significant bikeway connections on either side of I-25. The study ultimately recommended that two crossings – San Diego Ave and San Francisco Ave – be considered for further study and eventual implementation. The 2024 Plan reviews and incorporates other recommendations from the *I-25 Bicycle Accessibility Study*, as appropriate.

### ***Bike Gap Closure Project Profiles and Feasibility Study***

As part of a Bike Gap Closure Program, the City used federal funds to review and prioritize gaps in the City's bikeway network based on a list identified by the Greater Albuquerque Bicycling Advisory Committee (now GAATC). The list of gaps were subject to the City's bikeway evaluation process to identify potential projects that could be implemented in the near term, including a road diet and buffered bike lanes along Alexander Blvd from Comanche Rd to Mission Ave.

Several bike gap closure projects were subject to a more detailed engineering review:

- Claremont Ave bike boulevard – West of Carlisle Blvd to Moon St
- San Pedro Dr bike lanes – Bell Ave north to Marble Ave and Haines Ave north to Claremont Ave
- Osuna Rd wayfinding improvements at the intersection of Bear Canyon Arroyo and the North Diversion Channel Trail and crossing improvements at San Mateo Blvd

### ***Rail Trail Framework Plan and Alignment Studies***

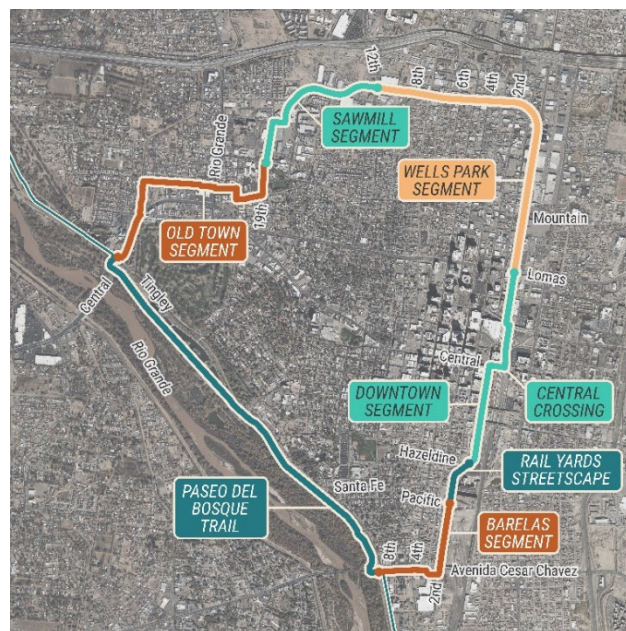
The Albuquerque Rail Trail is a proposed seven-mile loop – including a segment of the Bosque Trail – that will ultimately link several neighborhoods in the Albuquerque core, including Downtown, Baretas, Sawmill, and Old Town, and major landmarks such as the National Hispanic Cultural Center and the Rail Yards. The paved trail is envisioned as a signature recreational and transportation facility featuring a range of amenities and public spaces and supported by a variety of housing and economic development initiatives. As of the 2024 Plan, segments of the Rail Trail were in various stages of planning and design, with various planning documents completed or in progress.

**Framework Plan:** Completed in March 2022, the Framework Plan focuses specifically on the section between the Railyards and Downtown for which the City received a federal RAISE grant. The Framework Plan outlines the vision and general goals for the Rail Trail, proposes an alignment and typical sections, and identifies desired amenities and design features.

**Wells Park & Sawmill Section (Rail Spur Trail Feasibility Study):** The Feasibility Study considers the section of the Rail Trail along the rail corridor to the north of Lomas Blvd and continuing north and west to the Sawmill area and the Museum of Natural History along Mountain Rd. The study proposes utilizing vacated rail lines to the west of 12<sup>th</sup> St and an elevated section along the constrained portion of the corridor from north of Lomas Blvd to 6<sup>th</sup> St.

**Barelas Section:** The Barelas Concept Plan recommends a preferred alignment and typical sections for the segment of the Rail Trail between the Rail Yards and the National Hispanic Cultural Center. Major considerations include creating separation between trail users and motorists along the constrained Avenida Cesar Chavez/Avenida Dolores Huerta corridor and supporting neighborhood connections to the Rail Trail.

**Old Town Section (Ongoing):** The segment between Old Town and the Bosque Trail access point at Central Ave will utilize a series of neighborhood streets to navigate the narrow right-of-way through historic portions of Albuquerque and provide a connection to the Botanic Garden.



### **Rio Grande Trail**

The Rio Grande Trail is envisioned as a 500-mile multi-use trail open to people hiking, biking, and horseback riding along the Rio Grande corridor from Texas to Colorado. The trail is in the planning stages but is ultimately intended to support long-distance recreation and tourism like the Continental Divide Trail, though alignments through urban areas are also intended to be useful for residents. Through the City of Albuquerque, the Rio Grande includes a north-south alignment along the Bosque Trail and an east-west alignment that connects the Bosque Trail near Downtown to Tijeras Pass. The Study is being led by the State Parks Department with participation from the Parks & Recreation Department at the City of Albuquerque and will identify near-term and long-term improvements.

### **UNM Integrated Campus Master Plan**

UNM is in the process of replacing its [2009 Master Plan](#) to reflect emerging priorities and campus investment needs. The Integrated Campus Master Plan addresses all UNM properties, including the main campus, and guides the University's decisions on the physical environment and character of each campus, including issues related to access and mobility. The plan is reviewing the way the campus and external streets are utilized and considering opportunities to better accommodate the needs of people who travel to or through campus by bicycle.



## Other Initiatives and Programs

### *Encouragement Programs*

**Bike Thru Burque Week** is a week-long event held each October that encourages people to bike at their own pace and on their schedules. Past activities that took place as part of Bike Thru Burque Week include riding challenges, scavenger hunts, and photo contests, and are organized through an informational and interactive [website](#) and social media campaign. In addition to generally encouraging people to ride a bicycle, the event actively promotes trips to local businesses. Bike Thru Burque is organized by the City of Albuquerque in partnership with MRCOG, local bicycling advocates, local businesses, and volunteers.

Bike Thru Burque Week generally coincides with **CiQlovía**, a community-led open streets event that closes public streets to vehicle traffic and allows people to walk, roll, ride, and participate in family-friendly activities. The event is intended to raise awareness about public health issues and traffic safety and to encourage active lifestyles.

**Bike to Wherever Day**, originally branded as Bike to Work Day before the COVID-19 pandemic, is held each May and encourages people to ride a bicycle to some destination of their choice. Bike to Wherever Day is organized by the City of Albuquerque in partnership with MRCOG, local bicycling advocates, and numerous volunteers and local businesses. Informational booths with giveaway items are set up at public places and along trails across the city to encourage participation. Organizers administer a survey on bicycling needs and preferences each year as part of Bike to Wherever Day. Information on Bike to Wherever Day is available on the [Bike Thru Burque](#) website.

### *Esperanza Bicycle Safety Education Center*

Funded by the City of Albuquerque and operated by the Parks and Recreation Department, the mission of the [Esperanza Bicycle Safety Education Center](#) is “increasing the safety, self-sufficiency, and comfort of recreational, fitness, and utility riders alike.” As a City-funded bike shop, staff time is dedicated to increasing access to bicycle services and resources for community members. Esperanza offers free bicycle repairs and bike safety classes to the public, in addition to school-based bicycle education such as “bike rodeos.” Staff are certified League of American Bicyclists League Cycling Instructors (LCI).

### *Advisory Committees*

#### *Greater Albuquerque Active Transportation Committee*

The [Greater Albuquerque Active Transportation Committee](#) (GAATC) is comprised of community members and local advocates who represent different geographic areas across the city. The role of the committee is to advise City staff on policies, programs, and design considerations related to active transportation, including reviews of proposed projects related to walking, bicycling, taking public transit, and any other wheeled mobility device that utilizes on-street space. GAATC meets every month.

#### *Greater Albuquerque Recreational Trails Committee*

The [Greater Albuquerque Recreational Trails Committee](#) (GARTC) is comprised of community members who represent different user groups, including hikers, mountain bikers, equestrians, physically challenged users, elderly users, and runners/joggers. The committee meets monthly and is intended to advise on decisions that impact off-street recreational trails and help implement the *Bikeway and Trail Facilities Plan*.

### *50 Mile Activity Loop*

The 50-Mile Activity Loop is a collection of multi-use trails and on-street bikeways that comprise a continuous route circumnavigating the city. The Activity Loop features unique signage and mileage

markers and is intended to appeal to recreational cyclists. The route follows a combination of corridors along the edge of the city, such as Tramway Boulevard and Unser Boulevard, and urban streets through Downtown and Nob Hill.





# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN

## APPENDIX B: COMMUNITY SURVEY SUMMARY (SPRING 2023)







## Table of Contents

Table of Contents.....	2
Background.....	3
Key Takeaways.....	3
Methodology.....	4
Survey Content .....	4
Connection to Bike To Wherever Day.....	4
Survey Results .....	4
Survey Respondents' Bicycling Habits.....	4
General Bicycling Conditions in Albuquerque .....	6
Bicycling Habits.....	9
Level of Comfort by Bicycle Facility Type.....	10
E-Bikes.....	13
Open-Ended Comments.....	14
Demographics of Survey Respondents .....	14
Interactive Map.....	16
Survey Questions and Data Tables .....	19
Interactive Map – Results by Input Type .....	24
Open-Ended Survey Comments.....	34
Open-Ended Comment Summary.....	34
Comments by Theme.....	34

## Background

The City of Albuquerque and its planning partners developed a survey and interactive map to gather feedback about bicycling conditions, habits, and preferences to support both Bike to Wherever Day and the 2024 *Bikeway and Trail Facilities Plan*. The survey was open from May 1 to June 16, 2023 and coincided with Bike to Wherever Day on May 19, 2023 a major City-sponsored event to promote bicycling and encourage trips to local businesses. This survey mirrors past surveys distributed annually in conjunction with the Bike to Wherever Day surveys.

Input from the survey will inform the *Bikeway and Trails Facilities Plan Update* as well as general bicycle planning for the City and partner agencies, including the Mid-Region Council of Governments (MRCOG). In total, 679 people participated in the survey, 36 of whom completed paper surveys at one of the Bike to Wherever Day pop-up events. This document summarizes the results of the survey and highlights key findings from the interactive input map.



## Key Takeaways

Below are several key takeaways from the survey results.

- Survey respondents were generally positive about the trajectory of bikeway improvements and bicycling conditions in Albuquerque, though not as positive as they had been in past surveys. Reasons that respondents feel positive about bicycling in Albuquerque include pleasant weather, a high-quality network of paved multi-use trails, and a growing culture of biking.
- Survey respondents emphasized safety as a priority, which is consistent with previous Bike to Wherever Day and Bike to Work Day surveys. Respondents frequently cited a lack of separation from motorists as a barrier to bicycling, and likewise indicated that increased separation from motorists was the best strategy for improving safety. Crossing major streets and the high speeds of motor vehicles were also identified as major barriers to bicycling in Albuquerque.
- When asked to rate different bikeway facility types, respondents' level of comfort rises significantly along bikeways with greater physical and spatial separation from motor vehicles.
- The vast majority of survey respondents' trips continue to be for recreational purposes, though many respondents indicated a desire to bike for more utilitarian purposes.
- Compared to the general population, participants were disproportionately likely to be confident bicyclists, yet they still expressed significant safety concerns and a preference for greater separation from motorists and slower vehicle speeds. Less confident bicyclists, who are underrepresented in the survey results, are even more likely to require quality bikeways and low-stress conditions to consider bicycling as a regular transportation option.

## Methodology

The survey and interactive map were available online on the project website ([www.abqbikeplan.com](http://www.abqbikeplan.com)) and in-person at Bike to Wherever Day pop-up tables. The Bike to Wherever Day tables also featured giveaway items and general information about bicycling in Albuquerque.

The survey was advertised primarily through the Bike Thru Burque website, email list, and social media platform, as well as the City of Albuquerque and partner agency newsletters and outreach platforms. Survey flyers were distributed throughout May at the Downtown Growers' Market and additional pop-up events at Bike In Coffee.

### Survey Content

The survey was offered in both English and Spanish and solicited feedback on a range of topics:

- General bicycling conditions
- Comfort level bicycling along different facility types
- Respondents bicycling habits
- Perspectives on e-bikes
- Demographic Information

While a survey is administered every year as part of Bike to Wherever Day, the 2023 online survey featured an interactive input map that allowed participants to identify locations where they feel unsafe and where additional facilities are desired. Pop-up events included poster-sized maps where individuals could place stickers on the map that corresponded with the online input options.

### Connection to Bike To Wherever Day

Bike to Wherever Day is an annual event organized by the City of Albuquerque in partnership with MRCOG, local bicycling advocates, and numerous volunteers and local businesses. This year's event returned to the pre-pandemic format centered around in-person pop-up tables and information booths with giveaway items that were set up at public places and along trails across the city to encourage participation. A survey on bicycling needs and preferences is typically administered as part of Bike to Wherever Day. Information on Bike to Wherever Day is available on the [Bike Thru Burque](http://Bike Thru Burque) website.

Changing travel patterns and a greater emphasis on biking for a range of everyday activities, not just commuting to work, are consistent with the newer theme of "bike to wherever" rather than the pre-pandemic "bike to work" event title.

## Survey Results

### Survey Respondents' Bicycling Habits

#### *Bicycling Confidence Levels Among Respondents*

Survey respondents are disproportionately likely to consider themselves "advanced" or "expert" bicyclists compared to the overall population. Overall, more than three-quarters of respondents indicated they are an "advanced" or "expert," while about one-fifth (19 percent) consider themselves "intermediate" bicyclists. By

**Figure 1. Bike to Wherever Day Pop-Up Table**

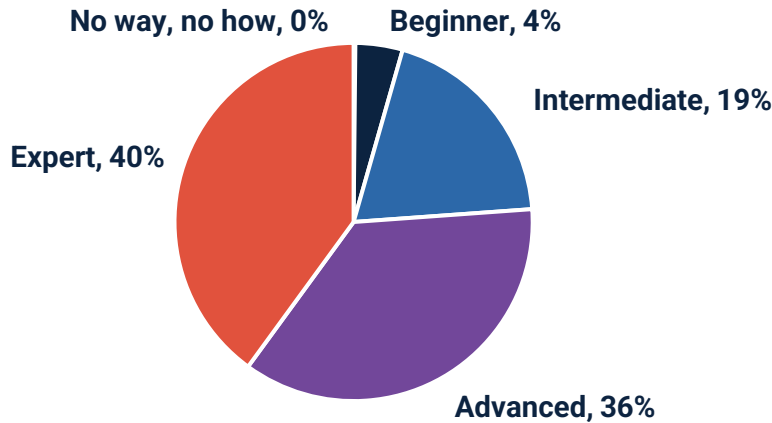




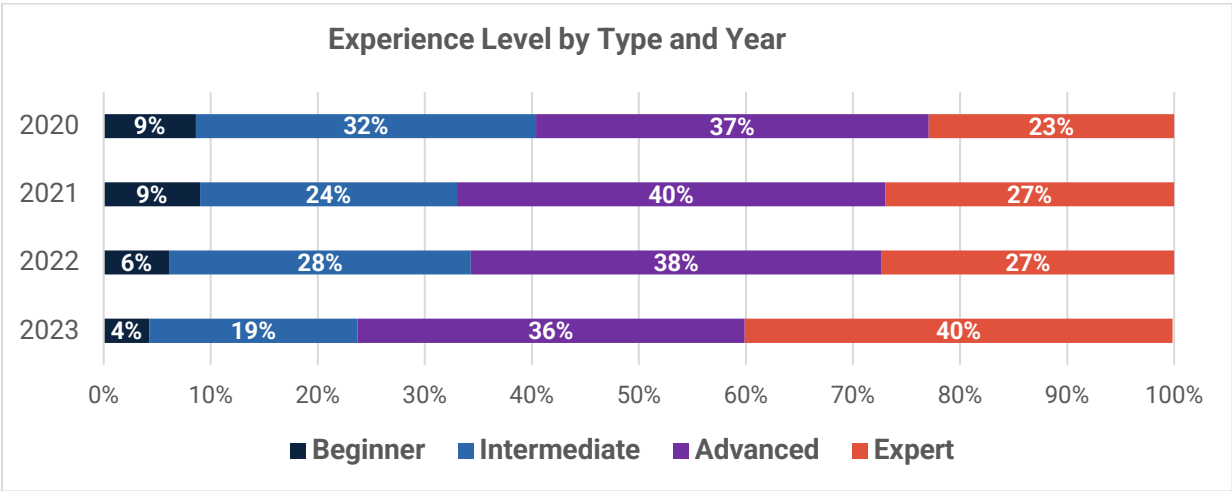
contrast, national surveys indicate that 50 to 60 percent of adults consider themselves “interested but concerned” bicyclists, which is analogous to the “intermediate” category utilized in past Bike to Work Day and Bike to Wherever Day surveys.

Notably, an even higher share of respondents indicate they are highly confident bicyclists than in recent surveys. Whereas 60 to 67 percent of respondents in surveys from 2020 to 2022 indicated they are “advanced” or “expert,” about 76 percent of respondents to the 2023 survey indicated they are highly confident.

**Figure 2: Respondents’ Level of Experience as a Bicyclist**



**Figure 3: Respondents’ Experience Level Over Time, 2020-2023**



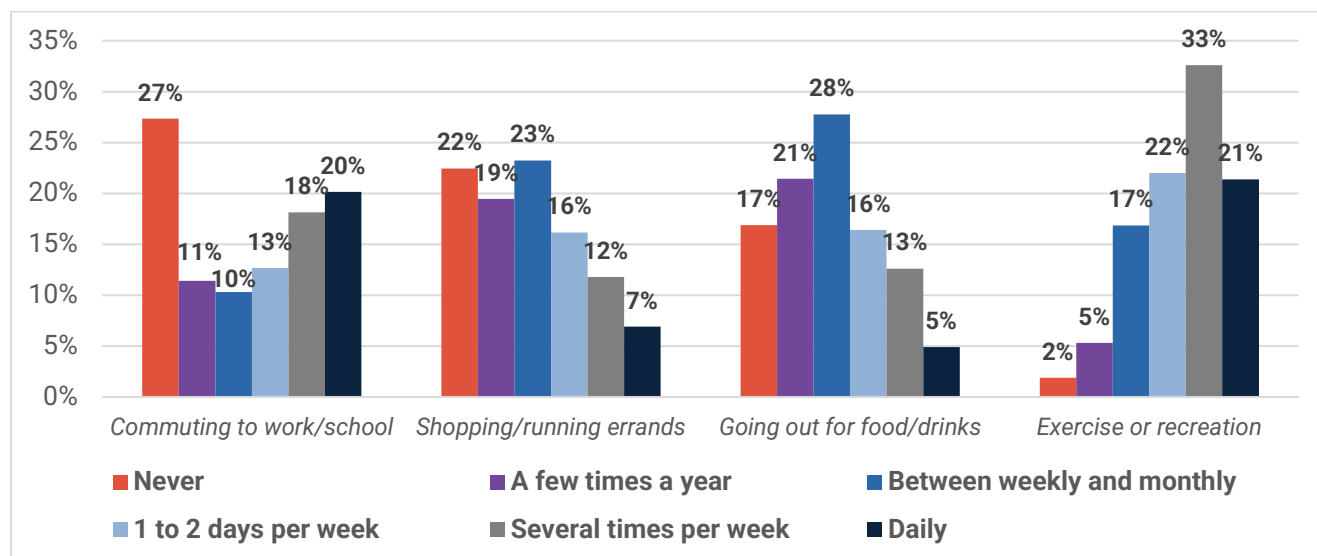
**Frequency of Bicycling Trips by Type**

Among survey respondents – who skew toward the more confident and dedicated end of the bicycling spectrum – the most common trip types are for exercise or recreation, with more than half (54 percent) of respondents indicating they bike for exercise or recreation daily or several times per week. About one fifth of respondents indicated they bike to work, compared to about one percent of the overall Albuquerque population.



Respondents also indicated they regularly bike (i.e., at least once a week) for discretionary trips, with about one third indicating they bike for shopping or running errands (combined 35 percent) and for going out for food or drinks (34 percent).

**Figure 4. Frequency of Bicycling Trips by Type**



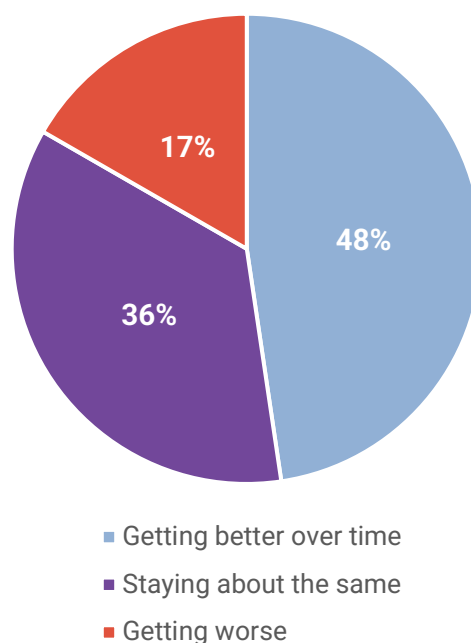
## General Bicycling Conditions in Albuquerque

The survey asked several questions related to general bicycling conditions across the City of Albuquerque, including questions about perceptions of conditions over time, barriers and challenges to bicycling, positive aspects of bicycling in Albuquerque, and strategies for improving bicycle safety.

### Bicycling Conditions Over Time

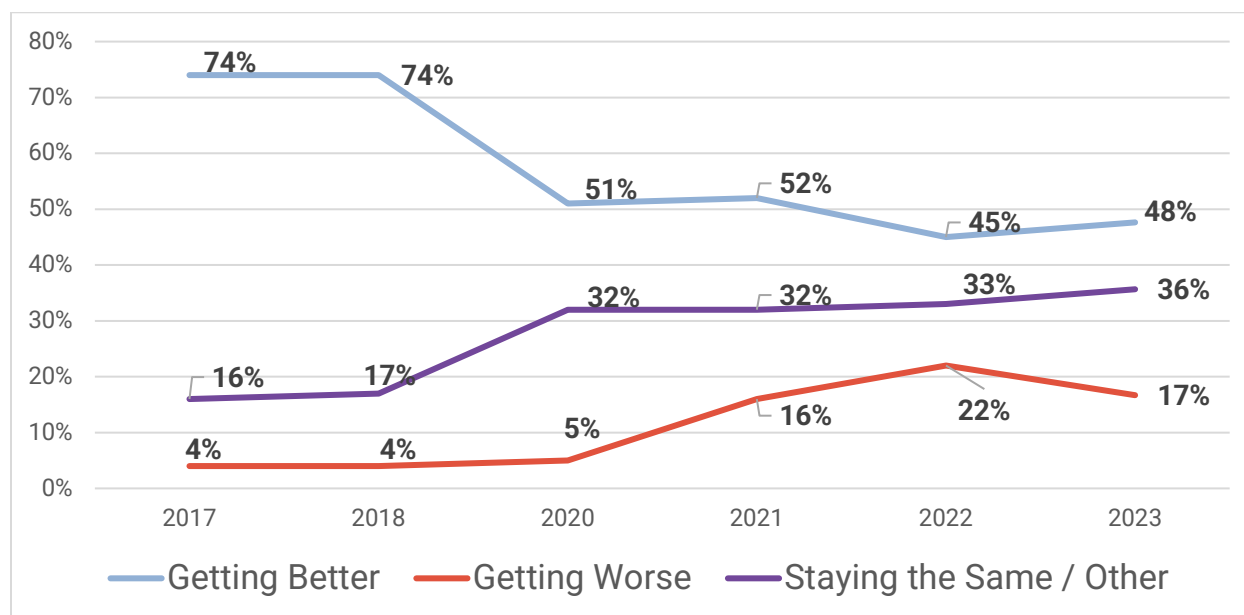
Nearly half of survey participants believe that conditions for people biking are improving over time (48 percent), while a third believe conditions are staying about the same (36 percent). Seventeen percent believe conditions are worsening. While generally positive, survey respondents were less optimistic than in past surveys. When asked the same question, nearly three quarters of survey respondents in 2017 and 2018 indicated that conditions were getting better over time (see Figure 2). Beginning in 2020, the share of respondents who say conditions are improving has decreased over time, while those saying that conditions are staying the same or getting worse rose considerably, despite the expansion of on-street bikeways as part of the Annual Complete Streets Maintenance Program during this period.

**Figure 5. Perspectives on Bicycling Conditions Over Time**





**Figure 6: Perspectives on Bicycling Conditions Over Time, 2017-2023**

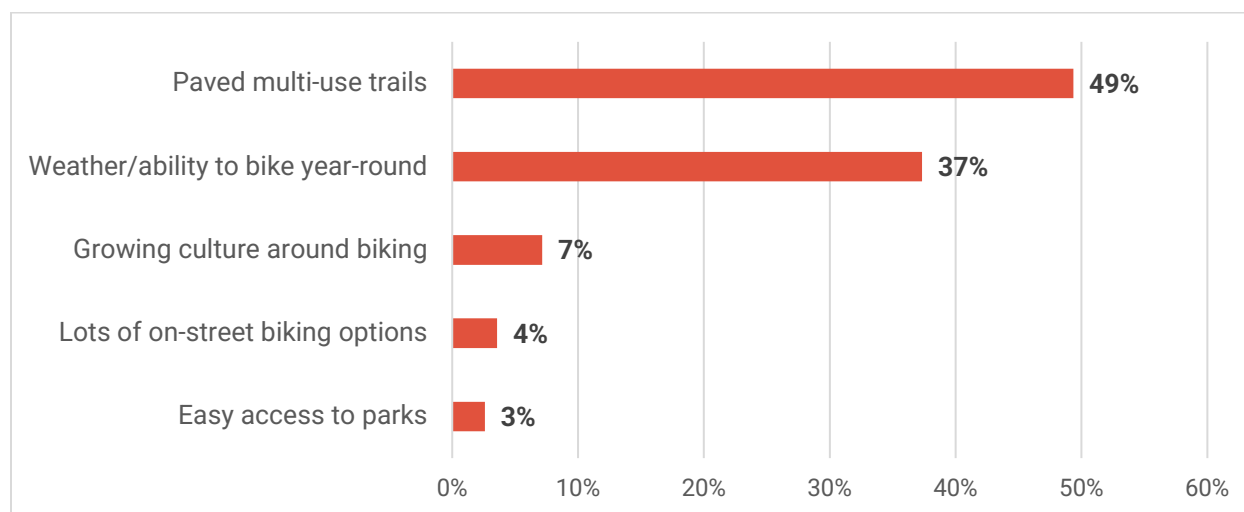


Note: This question was not asked in 2019.

### **Best Parts of Bicycling**

Nearly half of respondents (49 percent) indicated that paved multi-use trails were the best part of bicycling in Albuquerque, while over a third (37 percent) selected weather and the ability to bike year-round. In addition to their top reason, respondents could provide comments about additional highlights related to bicycling in Albuquerque. A total of 139 respondents provided further comments. Nice weather (56 comments) and a growing culture of biking (38 comments) were the most frequently cited, followed by paved trails (31) and on-street biking options (24).

**Figure 7: Best Parts of Bicycling in Albuquerque**



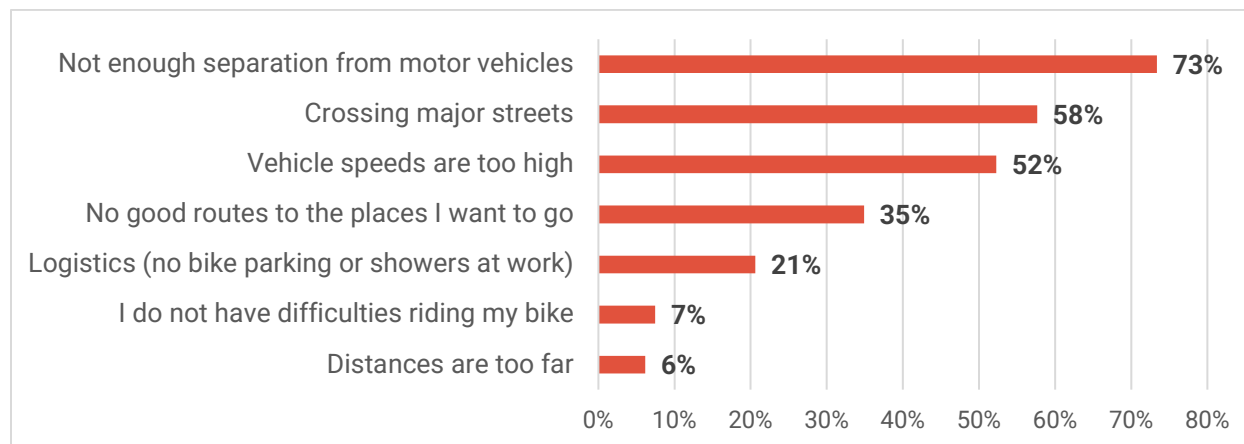




## Barriers or Challenges

When asked about the greatest barriers or challenges when bicycling in Albuquerque, the top three concerns were all related to general roadway design. Nearly three in four respondents (73 percent) selected “not enough separation from motor vehicles” as a concern. The second and third most selected barriers, respectively, were “crossing major streets” (58 percent) and “vehicle speeds are too high” (52 percent). By contrast, distance was not a commonly identified barrier to bicycling, which may be related to the fact that most respondents identified as either advanced or expert bicyclists (see “Bicycling Skills” section). Respondents were allowed to select up to three barriers or challenges.

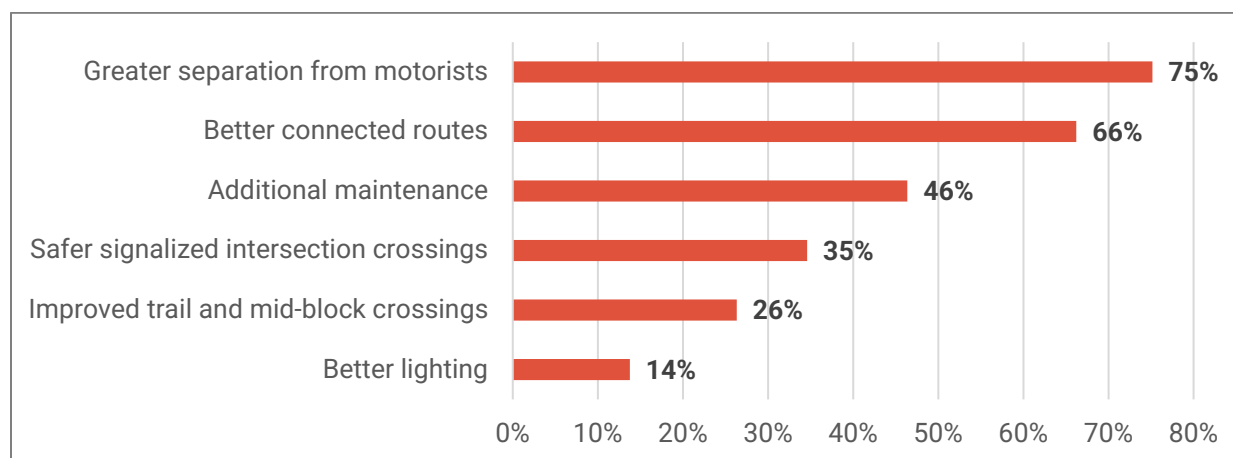
**Figure 8: Major Barriers of Challenges When Bicycling in Albuquerque**



## Strategies for Improvement

Mirroring responses from the question on barriers or challenges, three quarters of respondents (75 percent) indicated that greater separation from motorists was among their preferred strategies for improving safety for people biking. Better connected routes that link people to their destinations was the second most frequently selected strategy (66 percent). Other responses included additional maintenance of both bikeways and paved multi-use trails (46 percent), safer signalized intersection crossings (35 percent), and improved trail and mid-block crossings (26 percent). Respondents were allowed to select up to three strategies for enhancing safety.

**Figure 9: Preferred Strategies to Enhance Safety for People Biking**





## Bicycling Habits

Several survey questions focused on respondents' bicycling habits, including as frequency of biking, their top reasons for biking, their experience as a rider, and attitudes towards e-bikes.

### Bicycling Trips

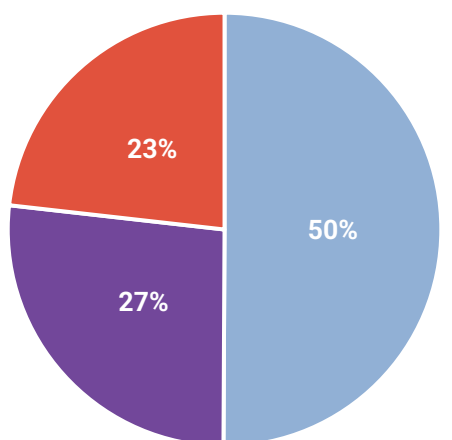
The survey asked respondents how frequently they make four different types of trips by bike: commuting, shopping, going out for food/drinks, and exercise or recreation. Over half of respondents say they ride for recreation or exercise at least several times per week (33 percent), if not daily (21 percent). Over a third of respondents say they commute to work or school at least several times per week.

Survey respondents also indicate that they are more likely to ride for recreation several times a week rather than for other types of trips (commuting, shopping, or going out). While only two percent of survey respondents say they never ride for exercise or recreation, significant portions of respondents say they never ride their bike for certain types of transportation trips (commuting, shopping/running errands, and going out for food/drinks).

### Bicycling Over Time

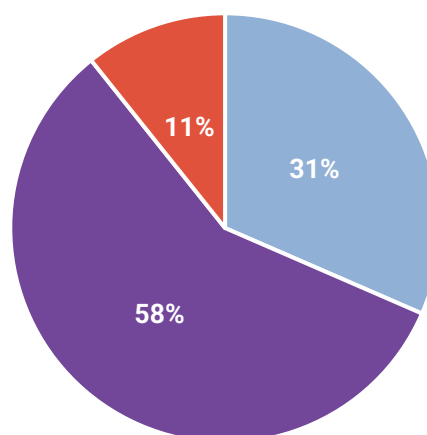
Survey respondents generally indicated they bike more than in the past. About one-half (50 percent) of respondents stated they ride more than they did 10 years ago, compared to less than one quarter (23 percent) who ride less than they did 10 years ago. Compared to before the pandemic, about one-third (31 percent) indicated they ride more (32 percent), compared to only 11 percent who ride less.

**Figure 10: Respondents' Bicycling Habits Compared to 10 Years Ago**



- I ride more than 10 years ago
- About the same as 10 years ago
- I ride less than 10 years ago

**Figure 11: Respondents' Bicycling Habits Compared to Before the Pandemic**



- I ride more than before than pandemic
- About the same as before
- I ride less than before than pandemic

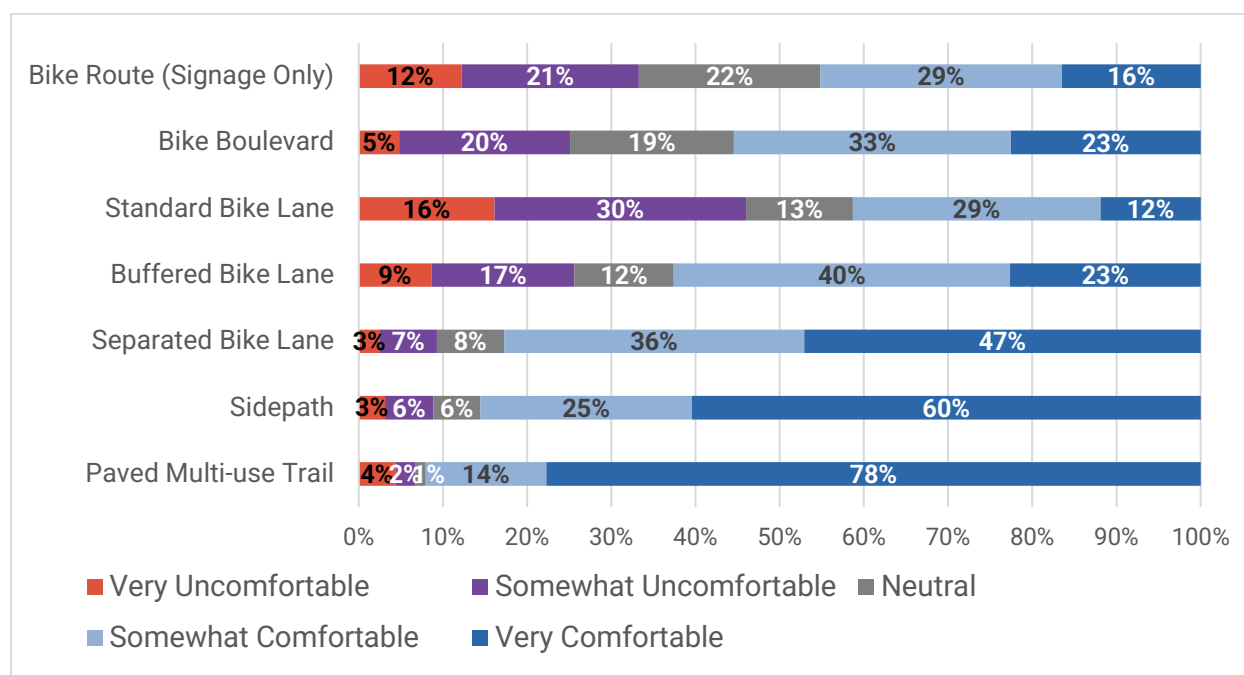
## Reasons for Bicycling

Respondents selected reasons they choose to bike, with responses focused on both intrinsic motivators, such as, “It’s good exercise,” “It saves me money,” and “It’s the easiest/quickest way for me to travel,” and extrinsic motivators such as “It’s better for the environment,” and “I don’t have a car or good public transit options.” Respondents indicated the top three reasons they chose to bike are for exercise (90 percent), for their mental health (69 percent), and for the environment (59 percent). The least common reason selected by respondents was the lack of a personal vehicle or good public transit options (five percent).

## Level of Comfort by Bicycle Facility Type

Respondents were asked to rate their level of comfort based on images of seven different bikeway facility types. These bikeways can be grouped into three categories: shared streets, bike lanes, and off-street facilities. In general, respondents expressed a preference for greater separation from motorists and slower vehicle speeds alongside bikeways. Although respondents were disproportionately likely to be confident bicyclists, they expressed significant safety concerns and a clear preference for higher-comfort bikeway facilities. National research indicates that less confident bicyclists are even more likely to require quality bikeways and low-stress conditions to consider bicycling as a regular transportation option.

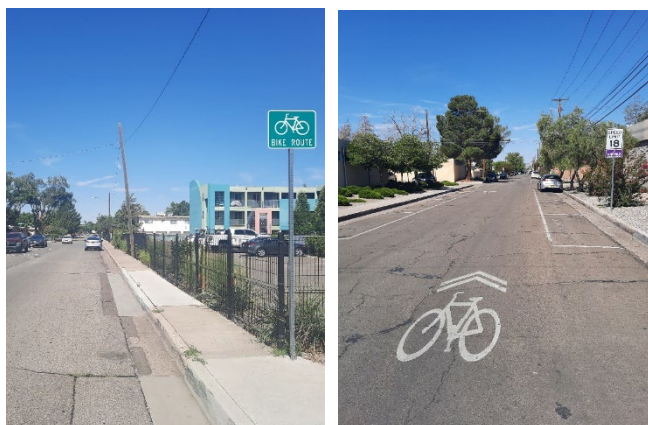
**Figure 12: Respondents Level of Comfort by Bicycle Facility Type**



**Shared Streets:** Along a designated bike route with signage only, slightly less than half (45 percent) of respondents indicated they would feel somewhat or very comfortable biking, while about one-third (33 percent) indicated they would feel somewhat or very uncomfortable.

Respondents had somewhat more positive responses when asked to rate a bike boulevard with additional signage and pavement markings, as more than half of respondents indicated they would feel somewhat (33 percent) or very (23 percent) comfortable, while about one-quarter indicated they would feel somewhat (20 percent) or very (five percent) uncomfortable.

**Figure 13. Shared Street Facilities: Bike Route (left) and Bike Boulevard (right)**



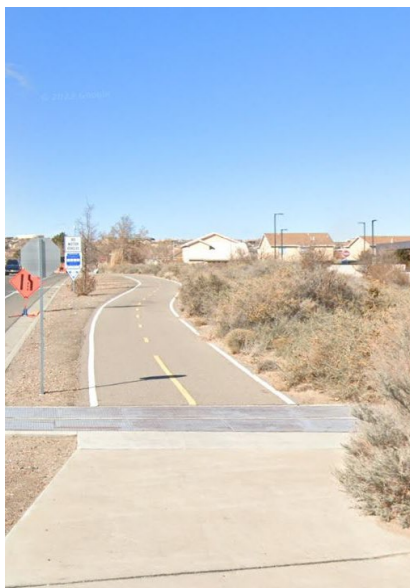
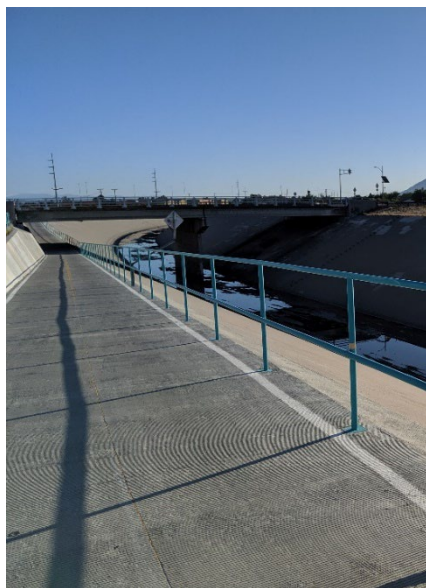
**Bike Lanes:** The level of comfort along on-street bike lanes increases with greater spatial and physical separation from motor vehicles. Almost half (46 percent) said standard bike lanes were very or somewhat uncomfortable, compared to 41 percent who indicated standard bike lanes were very or somewhat comfortable. By contrast, 63 percent of respondents indicated they were very or somewhat comfortable riding along a buffered bike lane, while 83% of respondents indicated they were very or somewhat comfortable riding along a separated bike lane. Standard bike lanes were the facility type that the fewest respondents indicated they felt very comfortable riding along (12 percent).

**Figure 14. Bike Lane Facilities: Standard Bike Lane (Left), Buffered Bike Lane (Center), and Separated Bike Lane (Right)**



**Off-Street Facilities:** The vast majority of respondents indicated they would feel comfortable on off-street facilities, including paved multi-use trails and sidepaths. Overall, 92 percent of participants indicated they were very or somewhat comfortable on a paved multi-use trail (78 percent and 14 percent respectively), while 85 percent indicated they would feel either very or somewhat comfortable on a sidepath.

**Figure 15. Off-street Facilities: Multi-use Trail (Left) and Sidepath (Right)**



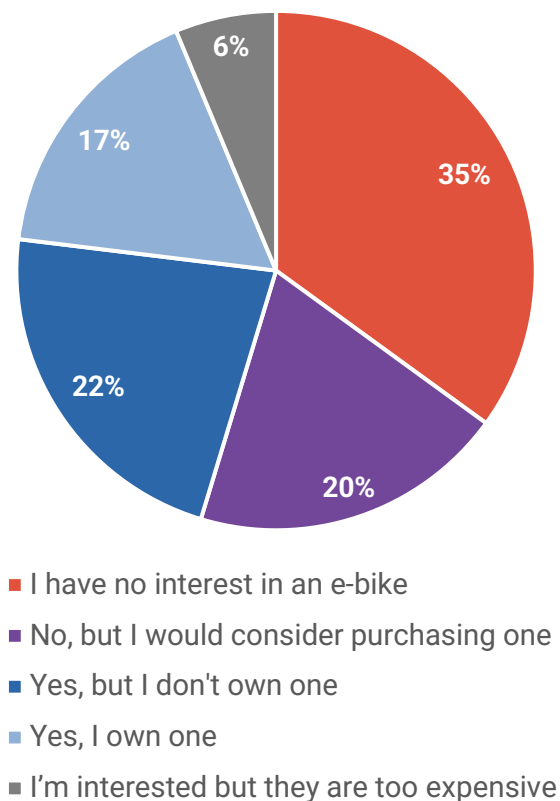


## E-Bikes

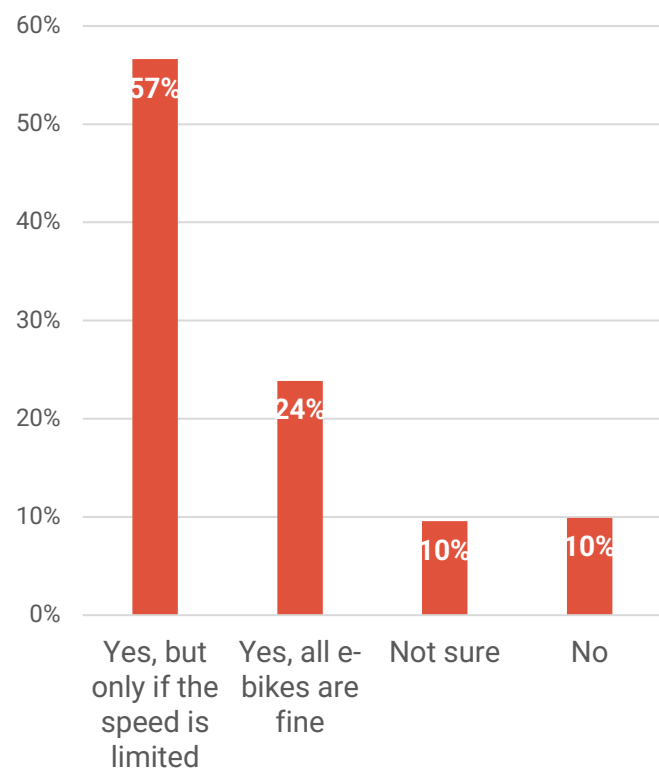
Most participants responded positively about e-bikes. About 40 percent of respondents indicated they have ridden an e-bike, whether they own one (17 percent) or not (22 percent), and a total of 65 percent of respondents indicated some level of interest in owning or using an e-bike. By contrast, only 35 percent of respondents indicated they have no interest in riding or owning an e-bike.

An even larger share of respondents – over 80 percent – indicated that e-bikes should be allowed on paved multi-use trails. Of those, 57 percent indicated e-bike speeds should be limited, while 24 percent said all speeds are fine. Only 10 percent of respondents explicitly stated that e-bikes should not be allowed on paved multi-use trails.

**Figure 16: Respondents' Experience with E-bikes**



**Figure 17: Perspectives on Whether E-Bikes Should be Allowed on Paved Multi-use Trails**







## Open-Ended Comments

Participants provided more than 1,000 open-ended comments across various questions in the survey. Open-ended comments focused heavily on the desire for safer bicycling conditions and a preference for separated/protected bike lanes and facilities with greater separation from motor vehicle traffic. Other frequently mentioned topics in the comments included:

- Network connectivity, including the need for well-connected and continuous bikeways
- Perceived/actual threats to physical safety, including reckless drivers and concerns about vehicle speeds and challenges crossing busy streets
- Need for enhanced maintenance along trails and on-street bikeways, including poor pavement conditions and debris becoming obstacles
- Concerns about personal security
- Better integration with transit, including bicycle parking at ART stations

See Appendix C for a complete inventory of comments collected through the online survey.

## Demographics of Survey Respondents

Similar to past Bike to Work Day/Bike to Wherever Day surveys, respondent demographics do not align with typical Albuquerque residents; overall, survey respondents were somewhat more likely to be male, white, and higher income than the overall population of the City of Albuquerque. The profile of survey respondents should be considered when interpreting results.

**Race:** A significant majority (68 percent) of survey respondents were white/Caucasian, followed by Hispanic/Latino/a, representing 17 percent of survey respondents. This percentage underrepresents the City's racial makeup, as nearly half of residents identify as Hispanic or Latino. Respondents could not select multiple race/ethnicity types due to survey malfunction, even though they were given that prompt within the question, and only the respondents' first choice were recorded.

**Gender:** Over half (54 percent) of respondents identified as male, while 39 percent identified as female. The gender split for past Bike to Work/Wherever surveys has fluctuated, with high rates of male respondents before 2020 when the survey was primarily administered in person.

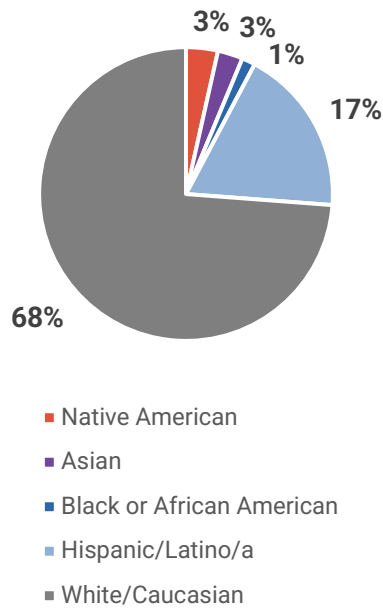
**Income:** Respondents' income skewed much higher than the city's median household income of \$56,366 (2017-2021 ACS). Nearly half of respondents (48 percent) reported their annual household income as over \$100,000, while only about 15 percent of respondents had annual household incomes of \$50,000 or less.

Year	Number of Responses	Male	Female
2023	581	54%	39%
2022	464	53%	43%
2021	281	45%	53%
2020	819	44%	53%
2019	941	67%	32%
2018	930	66%	33%
2017	766	65%	33%

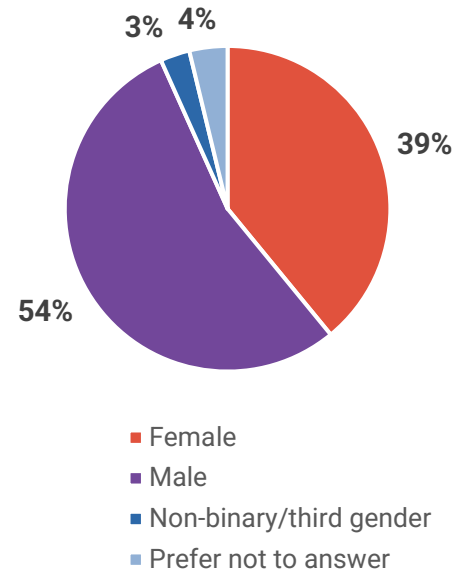
**Age:** The survey featured a generally even distribution of age among respondents 25 years old and above; about one quarter (24 percent) of respondents were between 35 and 44 years old, representing the largest age group of survey participants. Only about one percent of respondents were age 24 or younger.



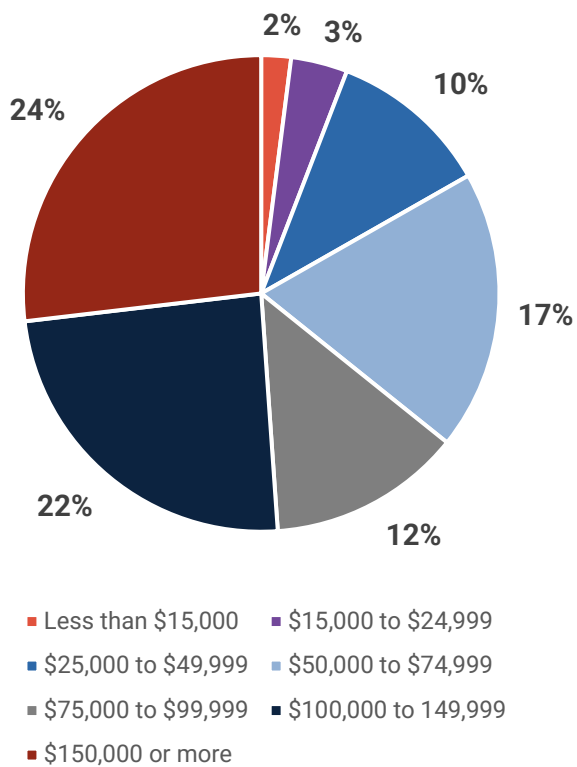
**Figure 18. Race of Survey Respondents**



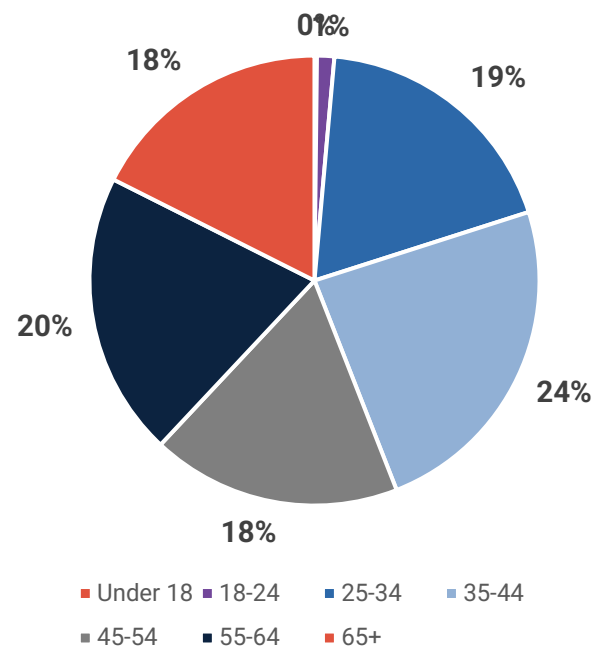
**Figure 19: Gender of Survey Respondents**



**Figure 20. Household Income Among Survey Respondents**



**Figure 21. Age of Survey Respondents**





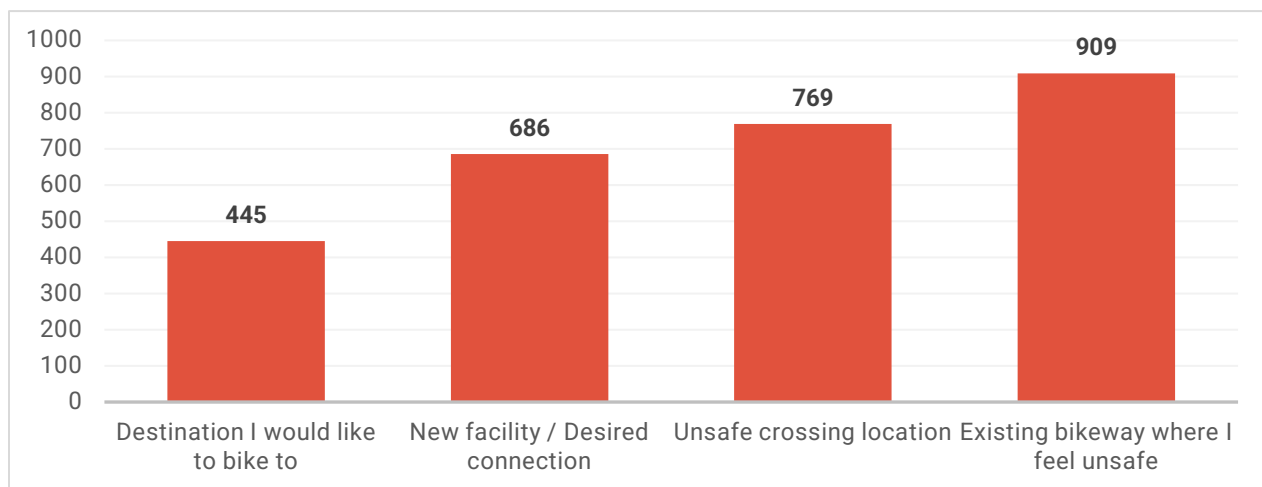
## Interactive Map

The interactive input map allowed participants an opportunity to provide location-specific comments and feedback. Information solicited through the interactive map included:

- Destinations that respondents would like to be able to better access by bicycle
- Routes where a new facility or connection is needed
- Unsafe crossing locations
- Existing bikeways where respondents feel unsafe

The input map, including online users and stickers placed on board at pop-up events, resulted in an inventory of more than 2,800 points. See Figure 19 for comments by type and Figure 20. See Appendix B for detailed maps by input type.

**Figure 22: Interactive Map Input by Type**



Several common themes and recurring types of safety concerns emerged from the interactive input map.

**Desired destinations:** Common destinations where respondents would like to bike if more (and safer) connections were present include major commuting destinations, such as Downtown and UNM, and regional tourism centers such as Old Town and Sawmill. Other responses to desired destinations to access by bicycle were geographically spread across the city.

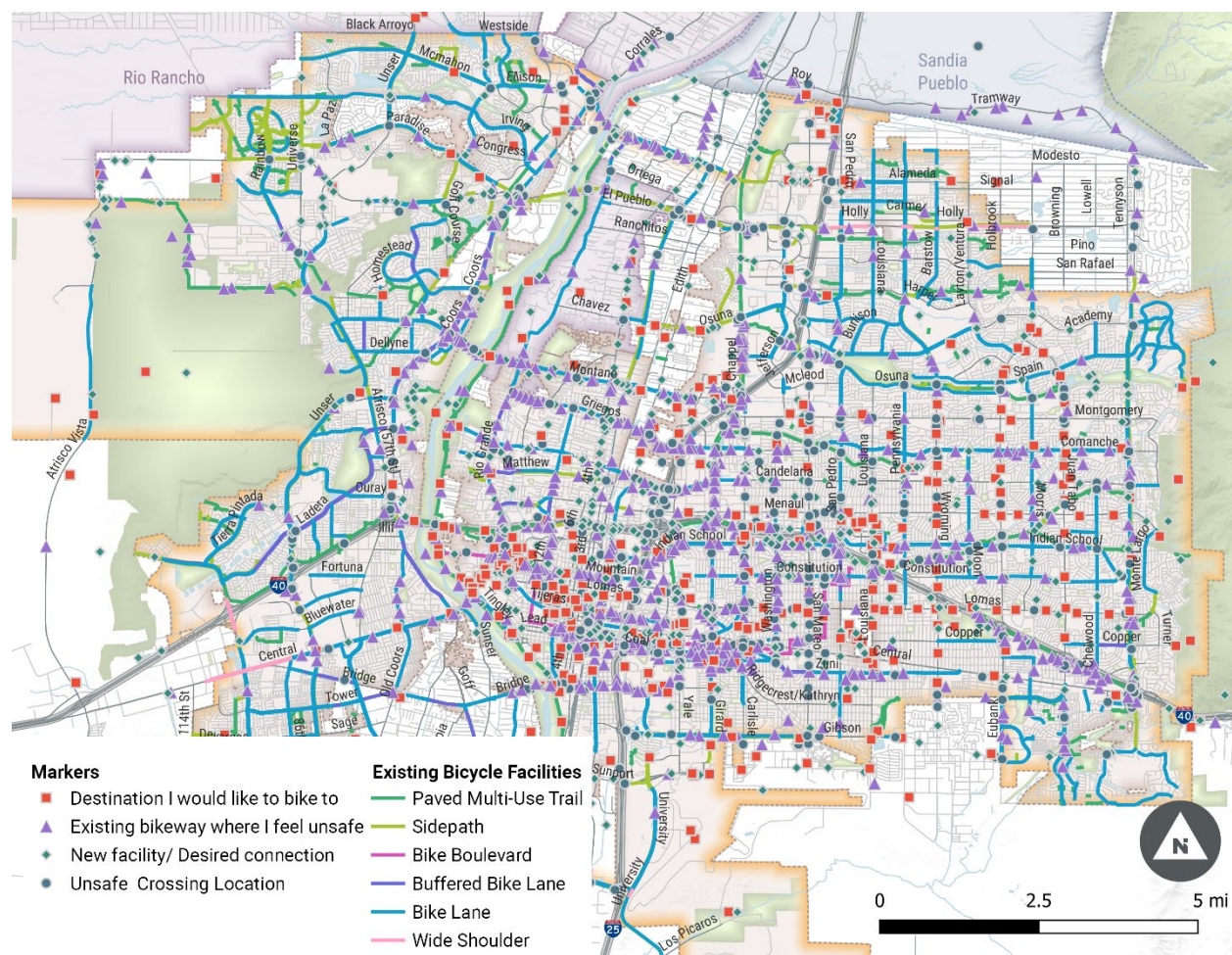
**New facilities / desired connections:** Common responses included locations where there are gaps between existing bikeways, including Paseo del Norte and Unser Blvd, and corridors that provide critical east-west connections, including Candelaria Rd and Alameda Blvd to the west of I-25. Other desired connections would support access to major destinations, including Silver Ave Bike Boulevard through Downtown and Broadway Blvd on the east side of Downtown from Lead Ave to Mountain Rd.

**Unsafe crossing locations:** Commonly cited unsafe crossing locations include where bike lanes intersect with I-25 and I-40 and numerous places where paved trails require an at-grade crossing at major streets. San Mateo Blvd is particularly noteworthy as a corridor where many individuals indicated they feel unsafe crossing the street.

**Existing bikeways where respondents feel unsafe:** Existing bikeways where people feel unsafe generally included higher speed and volume roadways with relatively narrow bike lanes. These include key east-west corridors such as Candelaria Rd, Comanche Rd, and Montañó Rd. Lead Ave and Coal Ave were also frequently identified as feeling unsafe, particularly in the stretches east of I-25 where there are bike lanes but no buffers.

While paved multi-use trails are among the best parts about bicycling in Albuquerque, according to survey respondents, there were numerous comments related to personal security along these facilities, particularly along the North Diversion Channel Trail and the arroyo trails across east Albuquerque.

**Figure 23: Interactive Input Map Comments by Type and Location**





### **Desired Destinations**

- Downtown
- Old Town
- Sawmill
- UNM Main Campus
- CNM campuses
- Isotopes Park / UNM South Campus
- State Fairgrounds
- Cottonwood Mall
- Bosque Trail access points
- Lomas Blvd - East of Louisiana Blvd
- Wyoming Blvd - North of I-40
- Eubank Blvd / Juan Tabo Blvd - North of Indian School Rd

### **New Facility / Connection Desired**

- Atrisco Vista - northern section
- Montañito Rd - 4th St to 2nd St
- Paseo del Norte - Universe Blvd to Calle Norteña
- Unser Blvd - Rosa Parks Rd to Paradise Blvd
- Silver Ave – Downtown and I-25 crossing
- Rio Grande Blvd - Central Ave to I-40
- I-40 Trail - East of 8th St
- 4th St - North of Downtown
- Candelaria Rd - Broadway Blvd to I-40
- Candelaria Rd - East of I-25
- Griegos Rd - 4th St to 2nd St
- North Diversion Channel - North of Balloon Museum
- Bear Canyon Arroyo - Juan Tabo Blvd to Tramway Blvd
- Alameda Blvd - Balloon Museum to I-25
- San Pedro Dr - North of I-40
- Broadway Blvd - Lead Ave to Mountain Rd

### **Unsafe Crossing**

- Louisiana Blvd - I-40 area
- San Mateo Blvd corridor
- Lomas Blvd - UNM area
- Carlisle Blvd / Lomas Blvd
- Carlisle Blvd / I-40 area
- Lead Ave & Coal Ave at I-25
- Along Lead Ave & Coal Ave corridors
- Along Paseo del Nordeste Trail
- Along Paseo de las Montañas Trail
- Central Ave / Tramway Blvd / I-40 area
- Central Ave / Girard Blvd
- Martin Luther King Jr Blvd / I-40
- Bosque Trail access at Alcalde Pl
- Rio Grande Blvd / I-40
- 12th St / I-40
- Comanche Rd / I-25
- Candelaria Rd / I-25
- San Mateo Blvd / Osuna Rd

### **Unsafe Existing Bikeway**

- Diversion Channel - Various underpasses
- Griegos Rd / Comanche Rd - Rio Grande Blvd to Carlisle Blvd
- Candelaria Rd - Rio Grande Blvd to Carlisle Blvd
- Comanche Rd - east of San Pedro Dr
- Alameda Blvd - west of I-25
- Coors Blvd
- I-40 Trail around Coors Blvd
- Unser Blvd - Central Ave to I-40
- Bridge Blvd / Avenida Cesar Chavez
- Lead Ave & Coal Ave - I-25 interchange
- Lead Ave & Coal Ave
- Gibson Blvd - east of I-25
- Lead Ave & Coal Ave
- Mountain Rd - Rio Grande to I-25
- Zuni Rd
- Indian School Rd
- Tramway Blvd / Roy Ave
- 4th St - North of Alameda Blvd
- Rio Grande Blvd - Mountain Rd to I-40
- 12th St - south of I-40 to Matthew Ave
- Washington St - Lomas Blvd to Constitution Rd





## Survey Questions and Data Tables

<b>1. In general, how often do you ride a bike for these trip purposes?</b>								
	Commuting to work/school		Shopping/running errands		Going out for food/drinks		Exercise or recreation	
	Total	Share	Total	Share	Total	Share	Total	Share
Daily	129	20%	44	7%	31	5%	137	21%
Several times per week	116	18%	75	12%	80	13%	209	33%
1 to 2 days per week	81	13%	103	16%	104	16%	141	22%
Between weekly and monthly	66	10%	148	23%	176	28%	108	17%
A few times a year	73	11%	124	19%	136	21%	34	5%
Never	175	27%	143	22%	107	17%	12	2%
<b>Total</b>	<b>640</b>	<b>100%</b>	<b>637</b>	<b>100%</b>	<b>634</b>	<b>100%</b>	<b>641</b>	<b>100%</b>

<b>2. What are the top reasons you choose to ride a bike? Select up to three responses.</b>		
	Total	Share
It's good exercise	561	90%
It helps my mental health	428	69%
It's better for the environment	368	59%
It saves me money	176	28%
It's the easiest/quickest way for me to travel	111	18%
I don't have a car or good public transit options	28	5%
<b>Total</b>	<b>622</b>	

<b>3. How would you describe your experience as a bicycle rider?</b>		
	Total	Share
<u>Beginner</u> – I am only comfortable riding on separated multi-use trails and residential roads	27	4%
<u>Intermediate</u> – I feel somewhat comfortable getting around but prefer multi-use trails for riding	123	19%
<u>Advanced</u> – I am comfortable riding on multi-use trails and on most streets	229	36%
<u>Expert</u> – I feel comfortable riding almost anywhere	253	40%
<u>No way, no how</u> – I have absolutely no interest in bicycling now or ever regardless of conditions.	1	0%
<b>Total</b>	<b>633</b>	<b>100%</b>





4. Do you ride more, less, or the same amount as ten years ago?		
	Total	Share
I ride more than 10 years ago	315	50%
About the same as 10 years ago	168	27%
I ride less than 10 years ago	146	23%
<b>Total</b>	<b>629</b>	<b>629</b>

5. Do you ride more, less, or the same amount before the COVID-19 pandemic?		
	Total	Share
I ride more than 10 years ago	315	50%
About the same as 10 years ago	168	27%
I ride less than 10 years ago	146	23%
<b>Total</b>	<b>629</b>	<b>100%</b>

**6. (Optional). Please provide any additional comments on how your individual bicycling habits have changed.**

7. Do you feel that bicycling conditions in Albuquerque are:		
	Total	Share
Getting better over time	294	48%
Staying about the same	220	36%
Getting worse	103	17%
<b>Total</b>	<b>617</b>	<b>100%</b>

**8 (Optional). Please provide any additional comments on how bicycling conditions are changing.**

9. What are the main barriers or challenges you encounter when riding your bike around Albuquerque? Select up to three responses.		
	Total	Share
Not enough separation from motor vehicles	452	73%
Crossing major streets	355	58%
Vehicle speeds are too high	322	52%
No good routes to the places I want to go	215	35%
Logistics issues (no bike parking, no showers at work, etc.)	127	21%
I do not have difficulties riding my bike	46	7%
Distances are too far	38	6%
<b>Total</b>	<b>616</b>	<b>100%</b>



<b>10. What is the best part about riding a bike in Albuquerque?</b>		
	<b>Total</b>	<b>Share</b>
Paved multi-use trails (e.g., Bosque Trail and Diversion Channel Trail)	304	49%
Nice weather/ability to bike year-round	230	37%
Lots of on-street biking options	22	4%
Easy access to parks and recreational areas	16	3%
Growing culture around biking	44	7%
<b>Total</b>	<b>616</b>	<b>100%</b>

*Note: Respondents could provide supplemental comments.*

<b>11. Which of the following design improvements would most improve safety for people bicycling around Albuquerque? (Select your top three strategies.)</b>		
	<b>Total</b>	<b>Share</b>
Better lighting	83	14%
Improved trail and mid-block crossings	159	26%
Safer signalized intersection crossings	209	35%
Additional maintenance	280	46%
Better connected routes	400	66%
Greater separation from motorists	454	75%
<b>Total</b>	<b>604</b>	<b>100%</b>

<b>12. Have you ridden an e-bike?</b>		
	<b>Total</b>	<b>Share</b>
I have no interest in an e-bike	217	35%
No, but I would consider purchasing one	122	20%
Yes, but I don't own one	138	22%
Yes, I own one	104	17%
I'm interested but they are too expensive	39	6%
<b>Total</b>	<b>620</b>	<b>100%</b>

<b>13. Should e-bikes be allowed on paved multi-use trails along with people walking and riding regular bicycles?</b>		
	<b>Total</b>	<b>Share</b>
Yes, but only if the speed on e-bikes is limited	337	57%
Yes, all e-bikes are fine	142	24%
Not sure	57	10%
No	59	10%
<b>Total</b>	<b>595</b>	<b>100%</b>



#### 14. What is your level of comfort biking on the following facilities?

	Very Uncomfortable	Somewhat Uncomfortable	Neutral	Somewhat Comfortable	Very Comfortable	Total
	Total	Total	Total	Total	Total	
Paved Multi-use Trail	28	15	8	92	499	<b>642</b>
Sidepath	19	35	34	153	368	<b>609</b>
Standard Bike Lane	103	191	81	188	76	<b>639</b>
Buffered Bike Lane	55	108	75	254	144	<b>636</b>
Separated Bike Lane	16	43	51	227	300	<b>637</b>
Bike Route (Signage Only)	77	133	136	181	104	<b>631</b>
Bike Boulevard	30	127	122	206	141	<b>626</b>

	Very Uncomfortable	Somewhat Uncomfortable	Neutral	Somewhat Comfortable	Very Comfortable	Total
	Share	Share	Share	Share	Share	
Paved Multi-use Trail	4%	2%	1%	14%	78%	<b>100%</b>
Sidepath	3%	6%	6%	25%	60%	<b>100%</b>
Standard Bike Lane	16%	30%	13%	29%	12%	<b>100%</b>
Buffered Bike Lane	9%	17%	12%	40%	23%	<b>100%</b>
Separated Bike Lane	3%	7%	8%	36%	47%	<b>100%</b>
Bike Route (Signage Only)	12%	21%	22%	29%	16%	<b>100%</b>
Bike Boulevard	5%	20%	19%	33%	23%	<b>100%</b>

#### 15. My top three priorities when selecting improvement projects are:

	Total	Share
Safety	555	90%
Network Connectivity	489	80%
Facility Improvements	337	55%
Economic Activity	191	31%
Level of Use	123	20%
<b>Total</b>	<b>615</b>	

#### 17. What is your gender?

	Total	Share
Female	227	39%
Male	315	54%
Non-binary/third gender	17	3%
Prefer not to answer	22	4%
	581	100%



<b>18. What is your approximate annual household income?</b>		
	<b>Total</b>	<b>Share</b>
Less than \$15,000	10	2%
\$15,000 to \$24,999	19	3%
\$25,000 to \$49,999	54	10%
\$50,000 to \$74,999	94	17%
\$75,000 to \$99,999	65	12%
\$100,000 to 149,999	120	22%
\$150,000 or more	133	24%
Prefer not to answer	57	10%
<b>Total</b>	<b>552</b>	<b>100%</b>

<b>19. Which age group are you in?</b>		
	<b>Total</b>	<b>Share</b>
Under 18	1	0%
18-24	7	1%
25-34	105	19%
35-44	135	24%
45-54	101	18%
55-64	115	20%
65+	99	18%
<b>Total</b>	<b>563</b>	<b>100%</b>

<b>21. Which race/ethnicity best describes you? (Check all that apply)</b>		
	<b>Total</b>	<b>Share</b>
Asian	15	3%
Black or African American	8	1%
Hispanic/Latino/a	100	17%
Native American	19	3%
White/Caucasian and not Hispanic or Latino/a	400	68%
Prefer not to answer	44	8%
<b>Total</b>	<b>586</b>	<b>100%</b>







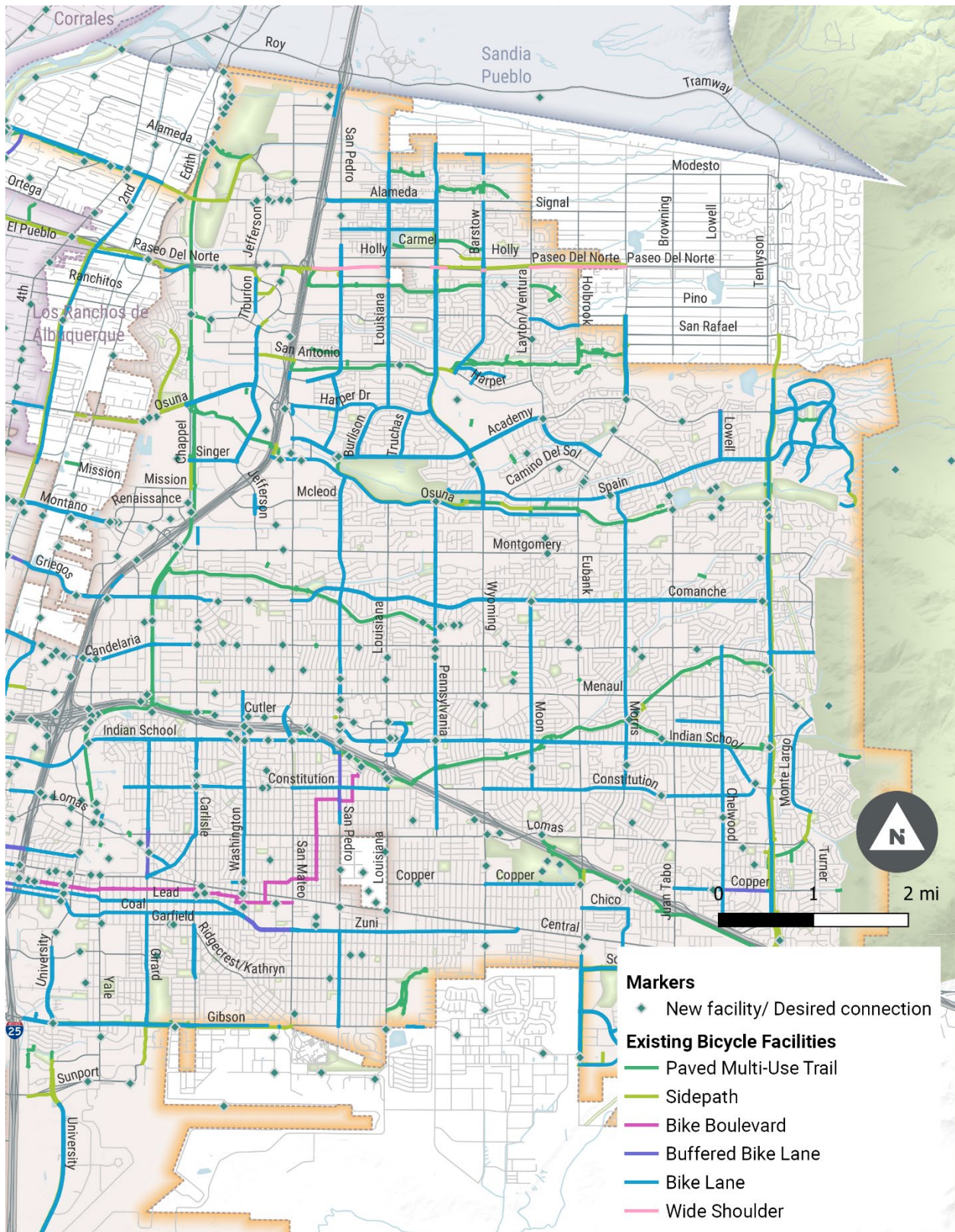
## Destination Respondents Would Like to Bike To – West Albuquerque







## Routes Where a New Facility or Connection is Needed – East Albuquerque



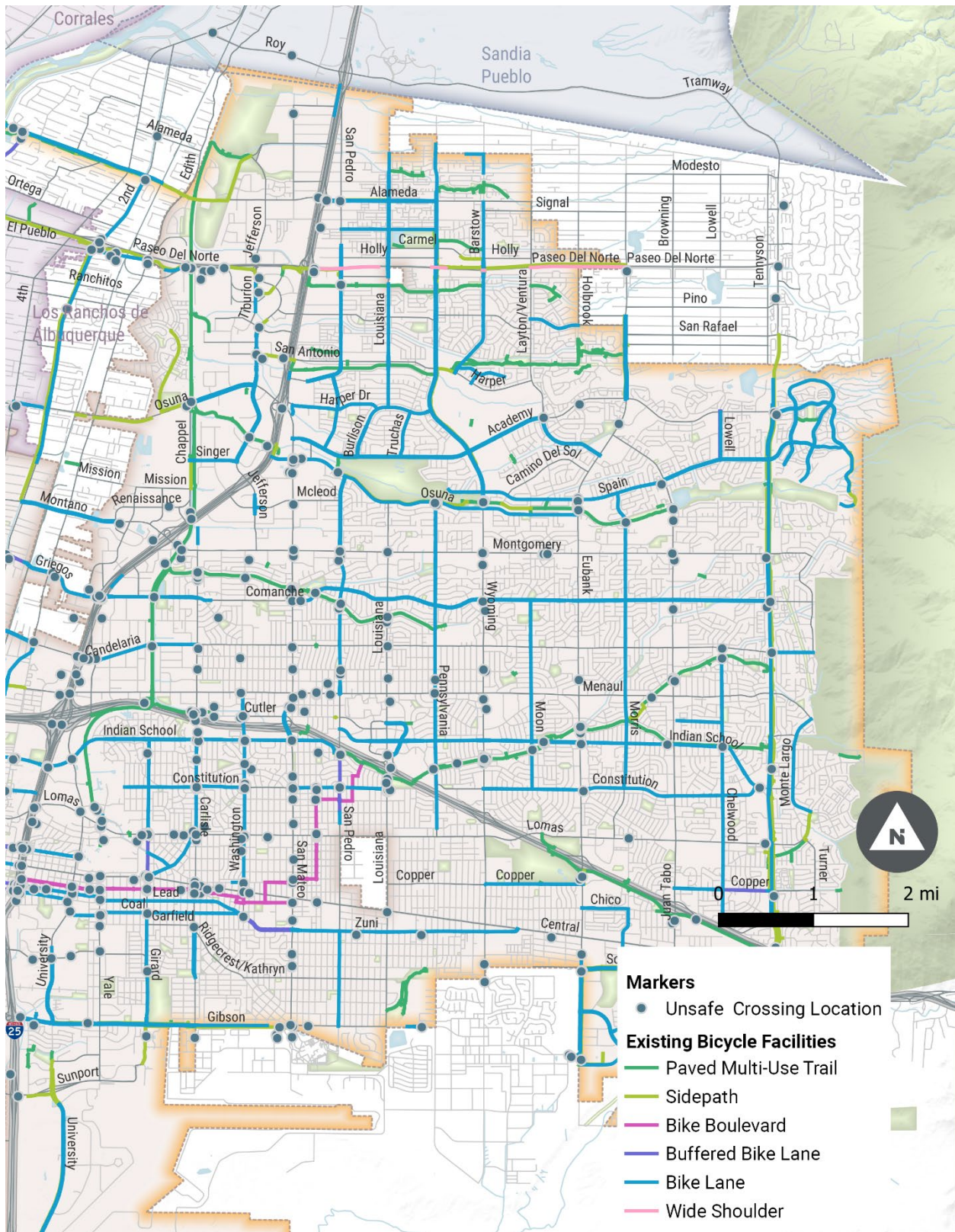






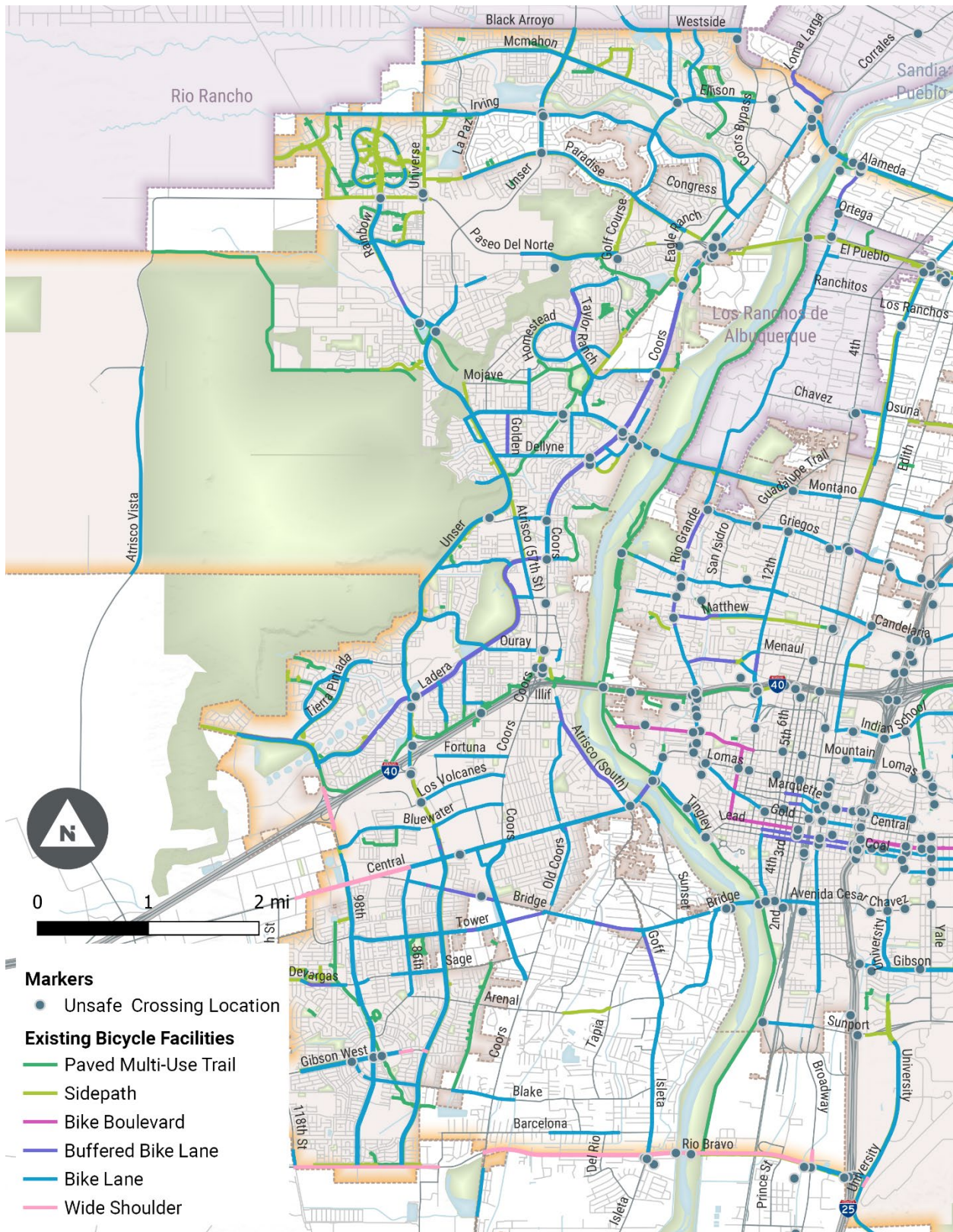


## Unsafe Crossing Location – East Albuquerque





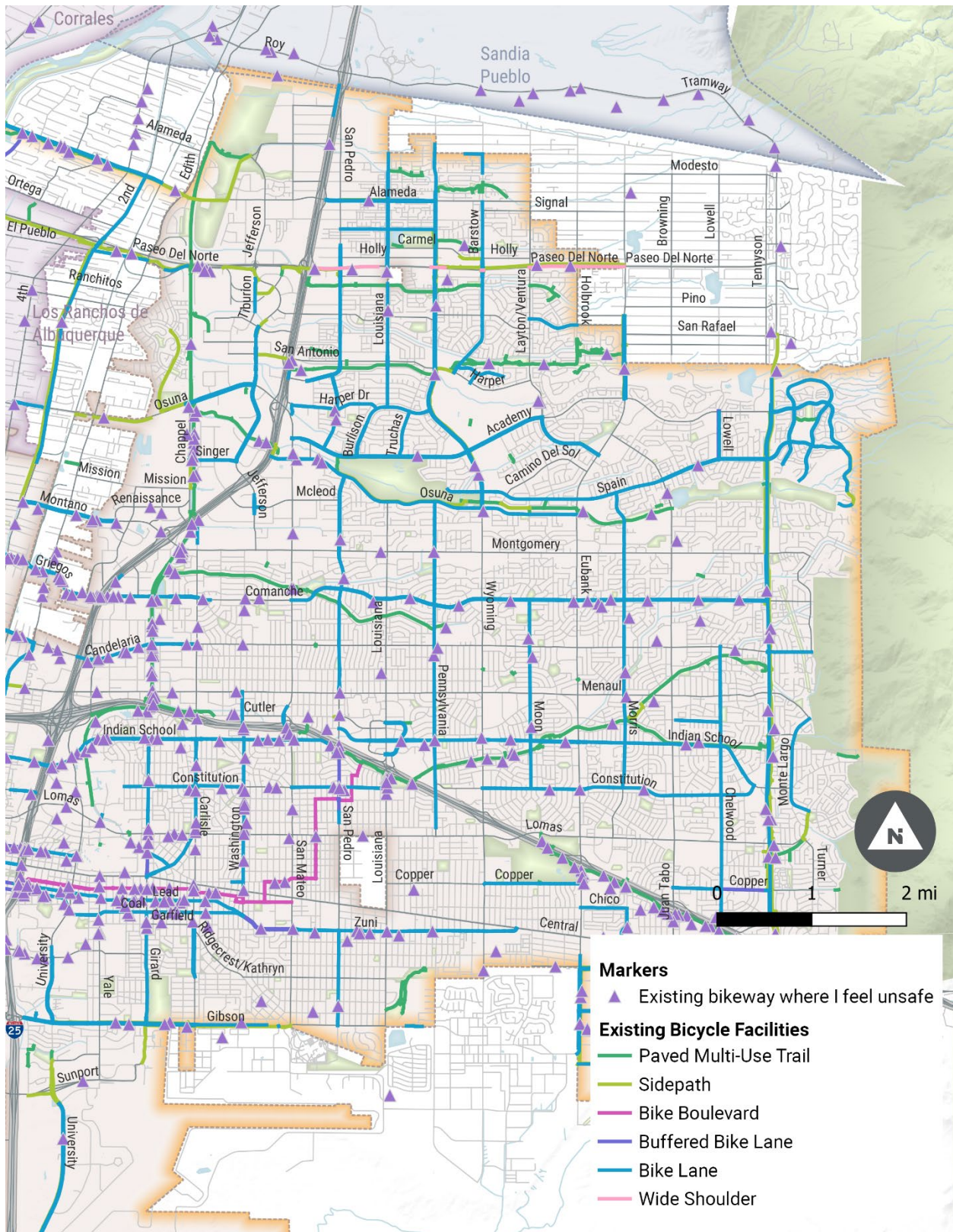
## Unsafe Crossing Location – West Albuquerque





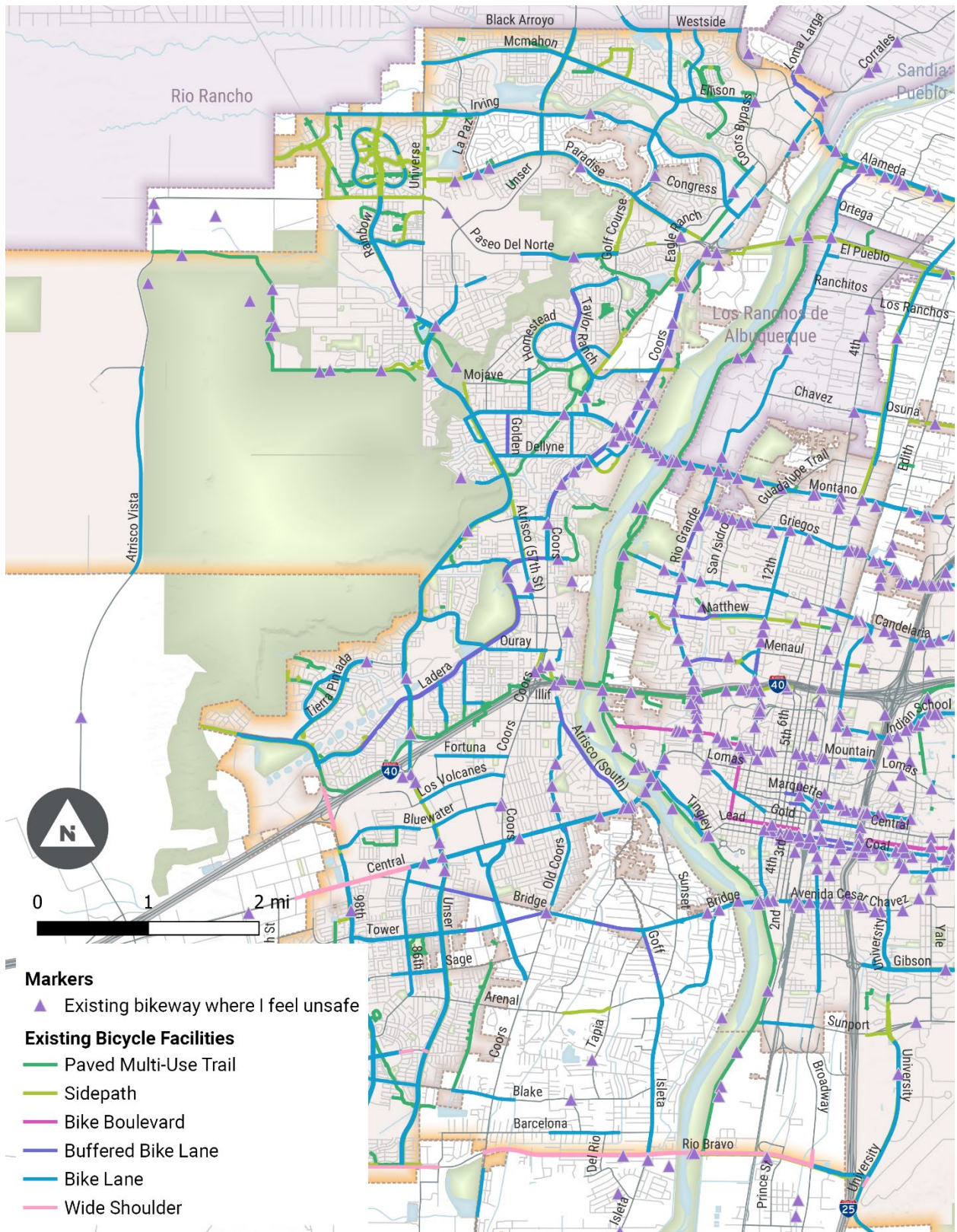


## Existing Bikeways Where Respondents Feel Unsafe – East Albuquerque



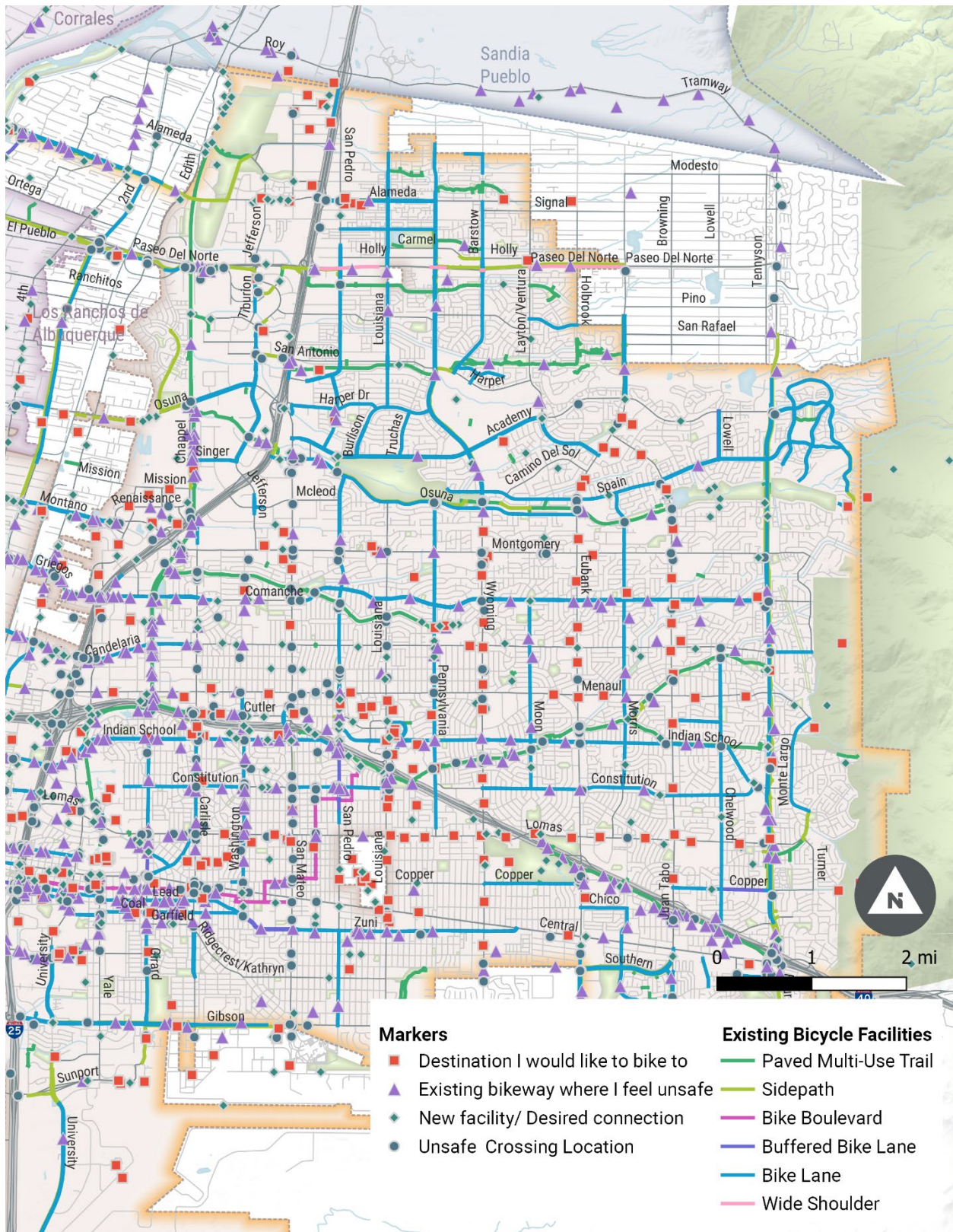


## Existing Bikeways Where Respondents Feel Unsafe – West Albuquerque



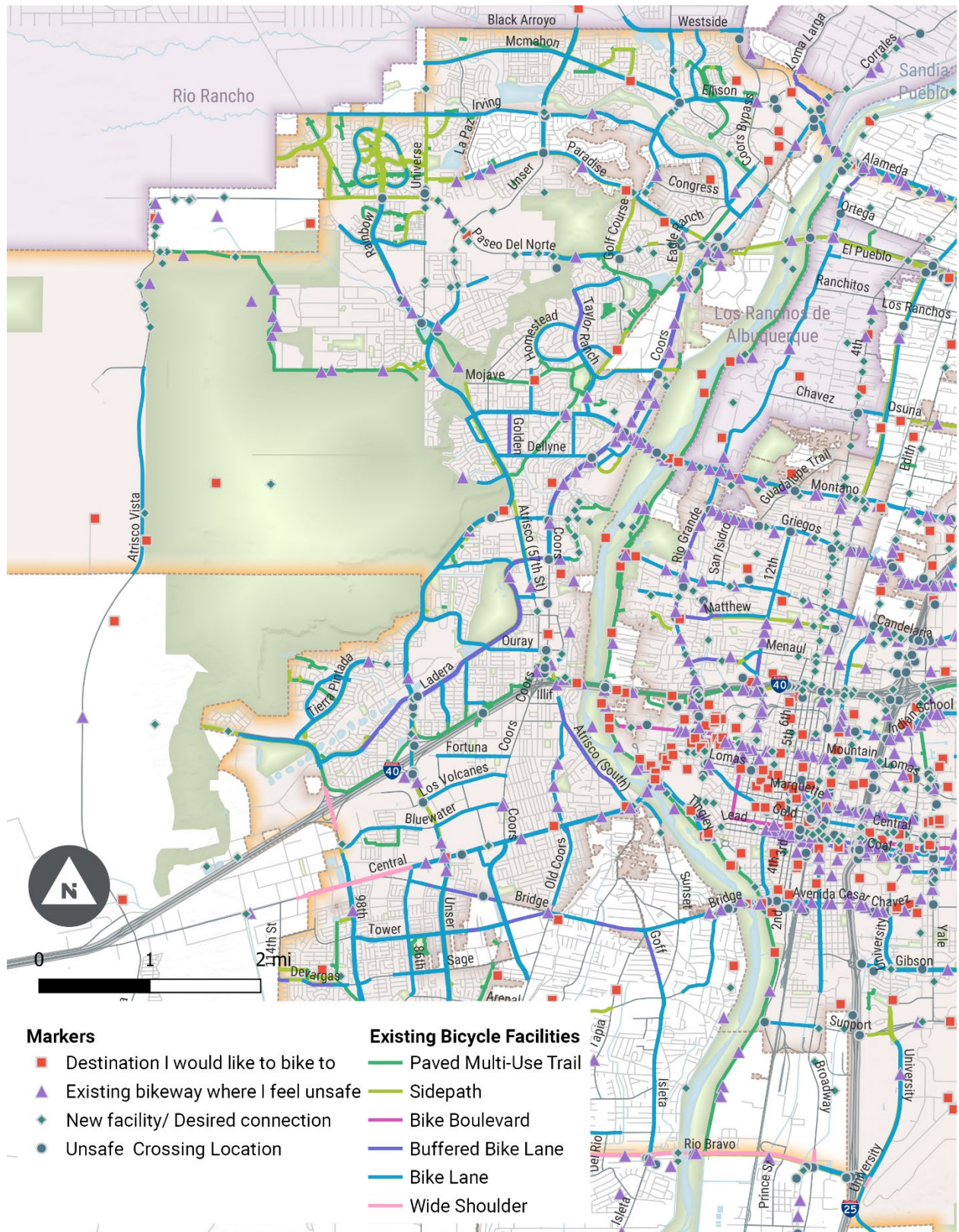


## All Markers – East Albuquerque





## All Markers – West Albuquerque





## Open-Ended Survey Comments

### Open-Ended Comment Summary

The comment summary reflects input collected from both the MetroQuest survey and paper surveys collected by MRCOG. All comments received were compiled and grouped into similar themes. The Project Team received a total of 1,021 comments through 679 separate survey submissions. All comments received were read, compiled, evaluated, and grouped by topic or theme.

To indicate the frequency of key themes and messages, the Project Team used the terms “many,” “several,” “some,” and “few.”

- “Many” is used to indicate that a theme was expressed in more than 50 percent of the comments within a topic area.
- “Several” indicates approximately 30 to 50 percent.
- “Some” indicates approximately 10 to 30 percent.
- “Few” means it was mentioned more than once in up to approximately 10 percent of comments.

### Comments by Theme

#### *Ability/Comfort/Lifestyle*

A total of 139 submissions addressed ability, comfort, and/or lifestyle, which was defined as how one’s lifestyle, physical abilities, or comfort level affects their biking behavior. Comments included information about the intersection between the respondent’s physical ability, such as age, injury, etc., and their biking behavior (including commuting, recreation, etc.). Beyond comments about the respondent’s lifestyle, these concerns often touched on the comfort and experience level of cyclists.

- Several comments related to how the respondent's comfort level influenced their biking behavior. These comments included mentions of safety for women and children and were often co-coded with safety concerns in terms of infrastructure.
- Several comments related to how changes in the respondent's lifestyle, such as retirement or expanding their family, affected their biking behavior, often indicating that they ride more or less than before the lifestyle change.
- Some comments related to how the ability of the respondents affected their biking behavior. Age and biking experience were most frequently mentioned for this topic area.

#### **EXAMPLES OF COMMENTS ABOUT ABILITY/COMFORT/LIFESTYLE**

- *I am more than an "intermediate" cyclist. I am an "advanced," but I do not always feel comfortable biking around town, because it's not just me and my abilities that give me confidence. Drivers and poor infrastructure will always make biking difficult.*
- *Since having a kid, I bike less and feel less comfortable biking in Albuquerque.*
- *Because many of the things that I need to do are within 4 miles of me which is (should be) a quick bike ride. However, it's very difficult to get to those places safely and comfortably, so I end up driving my car almost all the time.*

#### **Electric Bikes**

A total of 30 submissions addressed the topic of electric bikes. Any comments with the mention of electric bikes or e-bikes were included in the electric bike code. Comments included information



about the respondent's feelings towards electric bikes (positive or negative), comments regarding the use of electric bikes on trails and bike paths, and the practicality of using an electric bike for commuting purposes.

- Several comments focused on the practicality of using an electric bike for easier commuting.
- Several comments addressed the need for specific rules for electric bikes, such as having posted speed limits or safety concerns with electric bikes around other multimodal users of trails and bikeways.
- Some comments addressed positive views of electric bikes for increasing mobility around the city.
- A few comments indicated negative views about electric bikes, such as the unsafe biking behavior of those who use electric bikes.

#### **EXAMPLES OF COMMENTS ABOUT ELECTRIC BIKES**

- *I got a pedal-assist e-bike so I can commute with my kids, as we had to move farther from work/school. I feel most comfortable with them when we can take protected/separated bike lanes or bike paths.*
- *Retired, live in Nob Hill. After my car was stolen in 2012, I bought a bike trailer instead of getting another car. Bought an e-bike in 2020. I love getting around on my e-bike and using the trailer when I buy groceries. I'll never buy another car.*
- *I don't like e-bikes that are speeding. I have also seen and heard motorized scooters on the bosque bike path in the evenings. I don't bother to report this anymore.*

#### ***Environment Conducive to Biking***

A total of 90 submissions addressed the environment and whether it is conducive to biking. This topic code includes comments about Albuquerque's weather or other environmental conditions, such as landscaping/shade and access to nature.

- Several comments focused on Albuquerque's weather which is conducive to biking and commuting year-round.
- Some comments addressed access to nature, parks, and landscapes that make for a pleasant biking experience.
- A few comments addressed the need for improvement of landscaping, especially shade around bike paths and bikeways.

#### **EXAMPLES OF COMMENTS ABOUT ENVIRONMENT CONDUCTIVE TO BIKING**

- *Relocating to Albuquerque has made year-round biking much easier due to better weather and fewer hills; am impressed with the paths too - it's the glass and other debris that I find the most problematic, and that is heaviest in standard street lanes.*
- *Nice weather year-round.*
- *Vegetation along bike paths to make them ecologically viable and pleasant.*





### **Expand Bike Facility Capacity/Network**

A total of 43 submissions addressed the need to expand the capacity of existing bike facilities and the network overall. Comments included information regarding the need or desire to expand bike lanes, lane miles, or the need or desire to improve existing bike paths or other facilities.

- Several commenters indicated that more dedicated bike lanes should be constructed or expanded.
- Some commenters suggested that existing bike lanes should be widened for improved safety.
- Some respondents indicated that existing bike lanes were not constructed in a way that improved network connections throughout the city.

#### **EXAMPLES OF COMMENTS ABOUT EXPAND BIKE FACILITY CAPACITY/NETWORK**

- *I ride my bike less in ABQ than my previous city because it's not safe to ride to where I work - narrow two-lane roads, no bike facilities, high-traffic speeds.*
- *The city is making some areas better and more bike accessible, but this is not universally true and I still see many areas where bike lanes are not part of new street designs or redos of existing streets.*
- *It sure would be nice to be able to cross Central at any point I want. Cut outs in the median would allow bikes to cross, but not cars. Whomever designed the "improvements" to Central has never spent a minute on a bike.*

### **Location Specific Comments**

A total of 161 comments included information that was location specific. This comment code was used for comments that included reference to a specific location(s) and was usually used in conjunction with another code(s). Comments generally described areas that need improvement or areas that are used for commuting or recreational purposes. All areas mentioned are listed on the following page.

#### **EXAMPLES OF COMMENTS ABOUT SPECIFIC LOCATIONS**

- *Many crossings at large intersections seem designed by people who don't bike. Weird angles to reach the crossing buttons and then actually crossing. Crossings at small streets where one can't see cross traffic until almost out in the intersection. Path along 2nd street has many examples of this. Bike it someday and experience it yourselves.*
- *We need an open space mountain bike trail connecting south foothills and north foothills and it would be incredible to create bike only, one direction loop of trails on the north side of the river or north of Montaño.*
- *Moved to ABQ 2 years ago from Denver; I was much more comfortable riding my bike there. The Bosque Trail is one of the few places I feel safe riding my bike in ABQ. There is no good connection between the east side of town to the Bosque.*





- 14th Street Bike Blvd
- Second Street Overpass
- Altura Park
- AMAFCA/Arroyo Trails
- Atrisco Vista
- Bosque and Bosque Trails
- Bridge Blvd
- Carlisle/Hahn Arroyo
- Cedar Street between Coal and Silver
- Central Ave
- Central Ave/Zuni Rd
- Claremont Ave to the North Diversion Channel Overpass
- San Mateo Blvd/Constitution Rd
- Coors Blvd/Montaña Rd
- Downtown Albuquerque
- Elena Gallegos Trails
- Foothills
- Highway 165 in Placitas
- Highway 550
- I-25/Gibson Blvd
- I-40 East of Wyoming Blvd
- Jefferson Journal Business Park to San Mateo Blvd
- Juan Tabo Blvd South of Southern Boulevard
- Jefferson Journal Business Park to San Mateo
- Kirtland Air Force Base
- "La Esperanza Bike Center" [Esperanza Bicycle Safety Education Center]
- Lead Ave-Coal Ave Corridor
- Lomas Blvd/Central Ave Intersection
- Lomas Blvd/Alvarado Dr Intersection
- Louisiana/Constitution
- Malls (Coronado, Cottonwood, Uptown, and Winrock) Montaña Rail Runner Station
- Montgomery Blvd/San Mateo Boulevard
- Montgomery Blvd Interchange
- Nob Hill
- North Diversion Channel
- North Second St
- Paseo del Norte
- Pennsylvania Rd/San Pedro Dr
- Rio Bravo Blvd
- Rio Grande Blvd
- San Mateo Blvd
- Sandia Science & Technology Park
- Sandia Mountains
- Silver Ave
- South Eubank Blvd
- Sunport Blvd Bridge
- Tingly Beach Area
- Tom Bolack Park Underpass
- Town of Bernalillo
- Trail in front of old Encore Building on South Eubank
- Tramway Blvd
- Tramway Blvd/Eubank Blvd
- Trails from the University of New Mexico to Balloon Fiesta Park
- Unser Blvd
- Village of Los Lunas
- West Mesa Volcanoes
- Wyoming Blvd
- Zuni Rd

### ***Maintenance/Condition of Bike Facilities***

A total of 121 comments addressed maintenance/conditions of bike facilities. This comment code was used for comments that referenced pavement condition, maintenance needs, and needed repairs of existing bike facilities. Comments generally described areas that need improvement or the current conditions of existing bike lanes, bike boulevards, trails, etc. The most common theme of these comments is the garbage, glass, and debris in bike lanes or on trails, as well as the cracks and potholes in bike facility pavement.

- Several comments included mentions of broken glass, debris, and garbage in the bike lanes, trails, bike boulevards, and other bike facilities.
- Several comments included mentions of cracked and potholed pavement that affect the biking conditions in Albuquerque.
- Several comments addressed the need for maintenance of the bikeways, including comments about poorly maintained landscaping in several areas. Commenters also expressed the need for proper cleaning of public restrooms located along bike trails. Some comments in this topic code address a general need for maintenance but did not include any specific details.



- A few comments suggested the need for full re-pavement of facilities instead of only filling cracks to avoid uneven surfaces.

#### **EXAMPLES OF COMMENTS ABOUT MAINTENANCE/CONDITION OF BIKE FACILITIES**

- *Improvement and expansion of bike infrastructure in town in general is really necessary. There are places on the Northern Diversion trail that have nasty cracks and bumps and a lot of roadside bike lanes are worse, not to mention the debris that gets knocked into the bike lane.*
- *Bike lanes filled with debris/glass. Especially heavy traveled areas like 165 in Placitas and 550. Several tire popping holes on Rio Grande.... Tar gaps on diversion trails still. City/Cities should take care of heavily traveled routes.*
- *It is actually a great town cycle around in... pretty safe ways to get just about anywhere. The most pressing problem I see is that existing bike trails and lanes are not being maintained and are deteriorating making them dangerous.*

#### **Miscellaneous/Other Comments**

A total of 178 comments were labeled as miscellaneous, which includes comments that do not fit into any other code. Comments coded as miscellaneous/other most frequently included references to the growing bike culture in Albuquerque, awareness of climate change, and the positive effects of biking on mental health.

- Many comments praised the increasing bike community, culture, and social aspect in Albuquerque.
- Some comments were about the mental health benefits of riding bicycles.
- A few comments were about the positive impact of bike commuting on climate change.
- A few comments mention Vision Zero.
- A few comments were about bringing back the bike share program.
- A few comments were regarding the nexus between bike infrastructure and economic development.

#### **EXAMPLES OF MISCELLANEOUS/ OTHER COMMENTS**

- *We need Vision Zero!*
- *[Albuquerque has an] excellent community of cyclists.*
- *I miss the bike share. I used to not have a car but after the pandemic, with the buses and bike share gone, I felt like I had to prioritize getting a car so now I have one and bike a lot less.*

#### **Multimodal Transportation Connections**

A total of 38 comments addressed multimodal transportation connections. Comments included those about the respondent's use of public transportation options or other modes of transportation like walking.

- Some comments referred to the use of public transportation over biking. Generally, these comments noted safety concerns with biking and how the Albuquerque Rapid Transit (ART) system is safer for commuting.



- Some comments referenced the respondent's use of public transportation *in addition* to commuting by bicycle. Generally, these comments were positive and referred to bike racks on the city buses.
- A few comments mentioned safety concerns with using public transportation options.
- A few comments referenced parking options for those who park their vehicles and commute by bicycle and public transportation.

#### **EXAMPLES OF COMMENTS ABOUT MULTIMODAL TRANSPORTATION CONNECTIONS**

- *I commute to work partly by bus, partly by bike, and weekly by car, from Nob Hill to the base. The decline in base bus service has been dramatic over the last 10 years, and Covid plus the free bus service almost killed ridership, but it's improving.*
- *I'm car-free by choice. I ride my bicycle, walk or use mass-transit.*
- *Where my riding habits have decreased it is only because public transportation options make it easier to utilize the bus.*

#### ***Not Applicable Comments***

A total of 34 comments were labeled as not applicable. These comments were incoherent, unintelligible, or off-topic.

- Several comments were regarding an issue with the survey. In some cases, the respondent wished to select more than one option.
- Some comments were in response to the respondent not having enough biking experience in Albuquerque.
- A few comments were incoherent or incomplete.
- A few comments stated, "thank you."

#### ***Network and Destination Connectivity***

A total of 205 comments addressed network and destination connectivity. This comment code was used for comments relating to connections between parts of the bike network or origins and destinations.

- Several comments referenced the need to add additional safe and protected connections across the city of Albuquerque.
- Several comments were about the respondent's issues with commuting due to the lack of connected continuous routes between their home and work.
- Some comments included requests to increase the connectivity of existing facilities.



#### EXAMPLES OF COMMENTS ABOUT NETWORK AND DESTINATION CONNECTIVITY

- *I think more North-South connections with better (safer) trails would be a major improvement. Based on examples in other countries like Netherlands, converting certain roads (e.g., Pennsylvania & San Pedro) to one-way and using the other lane exclusively for bikes would encourage more bike riding and move us away from dependence on autos.*
- *On the west side, they don't have a great bike lane connection to the east across Coors. I take 1 route to work and another one to home because of the bike lane connection issues. Both routes have locations where I must ride in the driving lane.*
- *Need more neighborhood routes - reduce two-way traffic on some neighborhood streets, while allowing two-way bike traffic to continue through - Vancouver created a street network in a few years without building out an expensive bike only network.*

#### **Other Examples of Cities and/or Biking Infrastructure**

A total of 32 comments referenced other examples of cities and/or their biking infrastructure, culture, and network, compared to Albuquerque.

- Most comments referred to other cities or regions with safer and better biking infrastructure.
- A few comments referred to the bike-friendliness of Albuquerque compared to other cities and regions.

#### EXAMPLES OF COMMENTS ABOUT OTHER EXAMPLES OF CITIES AND/OR BIKING INFRASTRUCTURE

- *I came from a much more bike friendly city and it has been difficult to transition riding with intensely aggressive drivers and roads designed for excessive speeds.*
- *Before moving to Albuquerque, I rode bike everywhere. This city? Not designed more for cars than anything else; filled with disgustingly stupid motorists with little respect for human life. Of course, part of my reason for not riding as much is having adopted a puppy who is only just now getting to be old enough to run alongside me.*
- *I moved to Albuquerque in 2019 and have biked more here than anywhere else I have lived, in large part because of the bike-friendly amenities that exist.*

#### **Perceived/Actual Threats to Physical Safety**

A total of 178 comments referenced perceived/actual threats to physical safety. Comments included instances where bike accidents, crashes, and other dangerous biking situations had occurred or where the respondents feel collisions could occur. These comments were also used in conjunction with suggestions on how to improve safety and prevent dangerous situations for cyclists and pedestrians.

- Many comments referred to the need and desire to create safer bikeways in Albuquerque, with a general sense of a lack of safe and connected bike networks. Many of these comments suggested protected bike lanes while others focused on the general lack of safety.
- Several comments focused on a general apprehension of biking for commuting purposes, stating that the respondent did not feel safe riding to work due to poor conditions and



unsafe roadways for cyclists. Many stated that they did not commute on busy streets and mainly chose trails or smaller streets.

- Several comments suggested that biking in Albuquerque is dangerous due to bikeway conditions and the proximity to high-speed drivers and pedestrians on the walkways.
- Some comments stated that due to the dangerous nature of the bikeways, they have almost been involved in a collision or crash.
- A few respondents indicated that they have been hit by a driver while riding their bicycle.

#### **EXAMPLES OF COMMENTS ABOUT PERCEIVED/ACTUAL THREATS TO PHYSICAL SAFETY**

- *As I've read more about dangers of riding, it makes me more scared.*
- *I have become less comfortable riding on shared streets or bike lanes on busy roads, after some unsafe experiences with cars. I now restrict my biking to dedicated paths and bike boulevards.*
- *I think ABQ does a pretty good job for a city with many competing priorities. But my son was hit while riding on the sidewalk of Eubank, which he traverses a short way to get to a bike path on his commute. Some major streets are just too unsafe to use. Another issue I run into is at intersections with lights in which a bike cannot be detected and stays red. It's usually a hassle to get to the button so it knows someone wants to cross. One ends up running the red light.*

#### ***Perceived/Actual Threats to Physical Security***

A total of 80 comments referenced perceived/actual threats to physical security. Comments included instances where the respondents felt unsafe while biking due to the actions of people present in underpasses, bridges, or bikeways. Issues of drug use, crime, and homelessness were often included in comments with this topic code. Comments with this code also included mentions of bike theft and streetlights not operating. These comments were frequently used in conjunction with suggestions on how to improve security and prevent dangerous situations for cyclists and pedestrians.

- Many comments addressed the issue of unhoused individuals living/camping in or near protected bikeways.
- Many comments addressed drug use under bridges, overpasses, and bikeways, which caused respondents to feel unsafe while riding their bikes in these areas.
- Several comments mentioned potential theft or actual theft while riding their bicycles through the city.
- A few comments were about insufficient streetlights, lighting, or signage in certain areas.





#### EXAMPLES OF COMMENTS ABOUT PERCEIVED/ACTUAL THREATS TO PHYSICAL SAFETY

- *Bike theft is a problem especially when using a bike to ride to work and doing errands. I personally have had 3 bikes stolen (2 at UNM which were securely locked and one inside a vehicle). Also, bike education is needed as I see many people riding on the wrong side of the street, going through red lights, etc.*
- *I see that the city is generally keeping the trails in good condition and fixes some cracks regularly. I appreciate that very much. However, some underpasses are being occupied with homeless encampment (e.g. Louisiana Blvd). That is getting worse.*
- *Less open drug markets along multi use trails...they are unsafe especially for women, children and elderly. People have had drug users experiencing g homelessness attempt to forcibly take bikes.*

#### **Protected Bike Lanes/Facilities**

A total of 192 comments referenced the need for protected bike lanes/facilities. Comments included instances where the respondents felt unsafe while biking due to the proximity of vehicles.

Comments about the need or desire for a physical barrier or a separated facility away from vehicles were included in this code. In some instances, comments about existing protected bike lanes were positive and indicated a need for additional protected networks for bicyclists. Generally, there is a common consensus that more separated/protected bike lanes are needed to aid in a more connected and safer bike network.

- Many comments were made about the need and desire for separated/protected bike lanes. Most of the comments indicated that the protected bike lanes in Albuquerque work well but there is a need for more to maintain connectivity for all users.
- Several comments indicated that the respondent would commute more if there were more protected/separated bike lanes throughout the city and in their area.
- Several positive comments were in response to the existing protected/separated bike lanes.
- A few comments indicated the need for protected/separated bike lanes and facilities, but that maintenance would be key because street sweepers could not access the protected bike lanes.

#### EXAMPLES OF COMMENTS ABOUT PROTECTED BIKE LANES/FACILITIES

- *I want to ride more, but drivers in NM are absolutely crazy and the bike lanes here have no protection. We need protected bike lanes, either with concrete curb stops or plastic posts. Data show that 10x more people will ride in protected lanes.*
- *Have street sweepers that can clean separated bike lanes.*
- *Protected bike lanes will encourage many people to bike that are not currently biking in Albuquerque. Connecting the Paseo trail to more of downtown, ideally with a protected, separate path, will help alleviate parking congestion AND make Albuquerque a more walkable, livable community.*

#### **Recreation**

A total of 86 comments referenced riding bicycles for recreation. Comments included mentions of mountain biking, exercise, and biking specifically for enjoyment.

- Many comments in this code referred to biking being “fun.”



- Several comments indicated that the respondent used biking as their preferred exercise activity.
- A few comments referred to mountain biking and the desire for a mountain bike park.

#### EXAMPLES OF COMMENTS ABOUT RECREATION

- *Used to be just a commuter, but now more of a recreational, but avid, cyclist (riding long distances/Sandia mountain).*
- *It is a fun activity to do with a toddler. We all get out and see the neighborhood or sites around town.*
- *I'm discovering mountain biking again and love our scene here. I'd love to see the Bosque as a focus because its cooler and shaded. Improvements to trails and additional offerings are warranted. Mental health benefits number 1.*

#### **Sentiment (negative)**

A total of three comments were coded as sentiment (negative) only. These comments expressed negative feelings without identifying specific issues, and may have included phrases, such as “awful,” “never,” “sucks,” and “worst.” These were generally not used in tandem with any other code.

#### EXAMPLES OF SENTIMENT (NEGATIVE) COMMENTS

- *The change is incremental though. I understand there are limited resources, but for the sake of climate, health, and better communities we need to shift much more rapidly. Someone needs to have the courage to stand up and do this.*
- *Economic activity shouldn't impact infrastructure and it's disgusting that it's an option. That kind of logic is as dumb as believing New Mexicans will benefit from a foreign for-profit company owning our utilities. Everyone household and future homeowners deserves infrastructure investments in every community as to improve their (generationally inheritable) quality of life.”*

#### **Sentiment (Positive)**

A total of 66 comments were coded as sentiment (positive). These comments included phrases such as “awesome,” “enjoy,” “great,” and “love.” These were generally not used in tandem with any other code.

- Some comments thanked the City of Albuquerque for this work.
- Some comments referred to the greatness of biking in general.
- A few comments mentioned an appreciation for the strength of the current network of bikeways and the number of destinations reachable by bike.

#### EXAMPLES OF SENTIMENT (POSITIVE) COMMENTS

- *I enjoy 2 wheels!!*
- *The infrastructure is actually pretty good.*
- *THANKS for continuing to improve cycling in our town. And thank you for encouraging more folks to ride bicycles.*



## Supporting Infrastructure/Facilities

A total of 65 comments referenced the need for supporting facilities and amenities along bikeways and trails. Many of these comments were about the desire for supporting infrastructure for bike riders like lockers, restrooms, and showers.

- Several comments were made regarding the need for better/improved bicycle parking.
- Several comments were regarding efforts by the City of Albuquerque to support infrastructure and facilities for biking, including restrooms and hydration stations.
- Some comments were made about the need for better maintenance of supporting facilities. For example, maintenance and regular cleaning of the restrooms.
- Some comments referenced the desire for showers, additional restrooms, and water refill stations.

### EXAMPLES OF COMMENTS ABOUT RECREATION

- *I would like to see better upkeep of the multi-use trails. Fill across trail cracks and mend the sides of the pavements as well as brushing back vegetation. Cleansing the toilet facilities could be far better.*
- *We have fantastic trails that cover huge distances safely (bosque, diversion, etc.), but there are rarely shaded options to sit and take a break. Also, nowhere to refill water/use the restroom. It would also help to have more wayfinding signs for navigation.*

## Vehicle/Driver Behavior and Conflict

A total of 145 comments referenced vehicle/driver behavior and conflict. Comments included mention of reckless drivers, inattentive or aggressive driving behavior, traffic violations, and conflict between bicyclists and motorists.

- Many comments were made about aggressive driving behavior. This includes comments made about respect for bicyclists on the road.
- Several comments were made about traffic violations. These include distracted drivers, excessive speeding, wrong-way drivers and drivers running red lights.
- Several comments were made about the speed limits in areas without protected bike lanes. These comments included mentions of lowering the speed limit in frequently used bike lane areas.

### EXAMPLES OF COMMENTS ABOUT VEHICLE/DRIVER BEHAVIOR

- *ABQ drivers do not respect bike lanes. I see driving violations of bike lanes daily. I will never feel safe riding without meaningful physical buffering between bikes and cars.*
- *Drivers act unaware of bikes, speed, run lights, and make turns even when cross walk light is on and you are trying to cross. Given number of empty liquor bottles along streets many are DUI.*
- *Drivers don't consider bicyclists as worth sharing the roads with. That's why bike lanes that connect neighborhoods are crucial for the safety of bicyclists.*

# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN

## APPENDIX C: PROJECT PRIORITIES SURVEY MAP RESULTS (FALL 2023)



## Background

The second phase of outreach for the 2024 *Bikeway and Trail Facilities Plan* featured an interactive online survey map that allowed members of the public a chance to review the draft City bikeway and trail network and indicate which improvements they thought should be prioritized. The survey map was posted on the project website and was available in both English and Spanish. Results of the survey map were incorporated into the prioritization of projects for implementation.

The map utilized a feature in which participants were given a “budget” and allowed to select projects they thought should be prioritized. Each project was assigned a point value that reflected the general magnitude of costs (low, medium, or high). Participants were able to select any combination of projects until they expended their budget.

## Advertising and Means of Participating

The survey map was available on the project website from October 21 through November 30, 2023 to coincide with the beginning of Bike Thru Burque Week (October 21 to 29). In-person pop-up events in which attendees could indicate priorities through a hardcopy sticker map took place throughout Bike Thru Burque Week, including the CiQlovía open street festival on October 22, 2023.

Information about the survey map was posted online and distributed through project email lists and the Bike Thru Burque platform. Additional outreach took place through local organizations such as BikeABQ, which posted links to the survey on social media. Flyers with links to the survey and project website were distributed at in-person events and shared online.



**Table 1: Community Events During the Second Phase of outreach**

Date	Location/Event
<b>In-person Events</b>	
10/21/23	Bike-In Coffee
10/22/23	CiQlovía Open Street Festival
10/27/23	Canteen Brewhouse
10/28/23	Sierra Club E-Bike Event
10/29/23	Day of the Tread
10/29/23	Bike-In Coffee
10/30/23	Public Meeting: Mid-Region Council of Governments
<b>Online Events</b>	
10/16/23	Greater Albuquerque Active Transportation Committee
10/31/23	Virtual Public Meeting





## Survey Participants

A total of 662 individuals participated in the online survey map (including seven participants in a Spanish language version), and the survey website was visited more than 1,250 times. A somewhat smaller number (570 to 572) answered questions on their bicycling habits. Survey map participants tended to be frequent and experienced bicyclists. Overall, more than three-quarters of respondents (78%) indicated they ride a few times a week or every day, while a similar percentage (74%) indicated they are either advanced or expert bicyclists.

**Table 2: Survey Question: How many times a week do you ride a bike?**

Frequency	Total	Share
<b>Every day</b>	168	29.4%
A few times a week	278	48.6%
Once a week	53	9.3%
A couple of times a month	46	8.0%
Rarely	25	4.4%
Never	2	0.3%
<b>Total</b>	<b>572</b>	<b>100%</b>

**Table 3: Survey Question: How would you describe your experience level as a bicyclist?**

Experience Level	Total	Share
<b>No way, no how</b> – I have absolutely no interest in bicycling now or ever regardless of conditions.	1	0.2%
<b>Beginner</b> – I am only comfortable riding on separated multi-use trails and residential roads	35	6.1%
<b>Intermediate</b> – I feel somewhat comfortable getting around but prefer multi-use trails for riding	112	19.6%
<b>Advanced</b> – I am comfortable riding on multi-use trails and on most streets	234	41.1%
<b>Expert</b> – I feel comfortable riding almost anywhere	188	33.0%
<b>Total</b>	<b>570</b>	<b>100%</b>

## Survey Layout

The survey map was developed using the Metroquest online engagement platform and contained five informational or interactive tabs.

- **Welcome:** Brief overview of the 2024 Plan and goals of the survey.
- **Biking Habits and Behaviors:** Introductory questions to help the Project Team understand who completed the survey.
- **Interactive Map Instructions:** Overview of survey map components and instructions to participants on how to identify project priorities. See additional information below.
- **Interactive Map:** Online map to collect input on which proposed projects should be prioritized.
- **Wrap Up:** Additional information on the project, including links to the project website.



## Survey Map Instructions

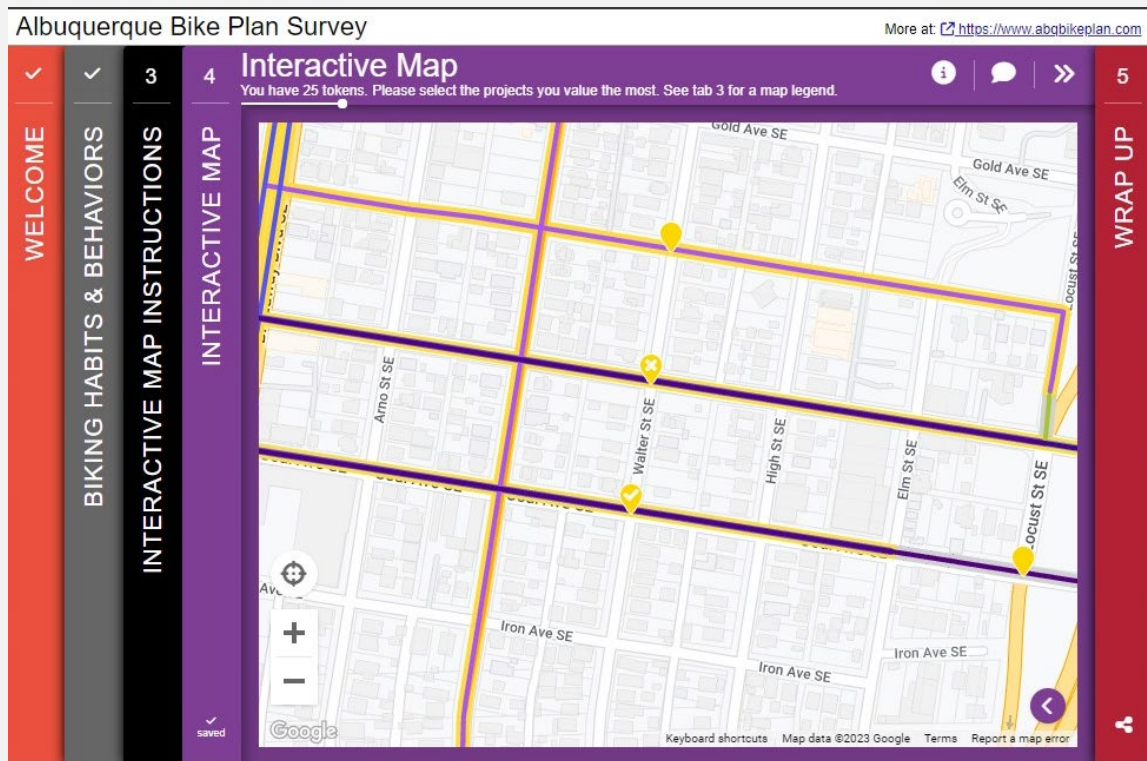
**Project Details:** Participants could click on the center point for each project to learn project details, including:

- **Location:** Project route and limits. Participants were instructed to note that longer corridors may consist of several project segments.
- **Facility Type:** Proposed type of bikeway or trail.
- **Timeframe:** Plausible near-term or long-term. Additional details available on the project [website](#).
- **Magnitude of Cost:** Projects were assigned an initial estimate – low, medium, or high – based on technical feasibility and complexity. *Note: Costs were subject to further consideration for the final 2024 Plan.*

**Recommendations Budget:** Participants were given a budget of 25 tokens that could be used to indicate which projects should be the highest priorities.

Project costs:

- Low = 1 token
- Medium = 3 tokens
- High = 5 tokens



# Survey Map Instructions

Albuquerque Bike Plan Survey More at: <https://www.abqbikeplan.com>

WELCOME
BIKING HABITS & BEHAVIORS
INTERACTIVE MAP INSTRUCTIONS

## Interactive Map Instructions

Please review the information here to help you navigate the map on the following screen.

Map Legend
Project Information and Selecting Priorities
Recommendations Budget

**Map Legend**

**Proposed Bikeways: Facility Type**

- Paved Multi-Use Trails
- Sidepaths
- Bike Boulevards or Enhanced Bike Routes
- Separated Bike Lanes
- Buffered Bike Lanes
- Bike Lanes

**Proposed Bikeways: Estimated Timeframe**

- Plausible Near-Term Pending Sufficient Resources
- Long-Term
- Proposed Rail Trail Alignment

**Existing Bikeways: Level of Traffic Stress (LTS)**

- Lower-Stress Bikeways (More Comfortable, LTS 1 or 2)
- Higher-Stress Bikeways (Less Comfortable, LTS 3 or 4)

**Existing Bikeways: Additional Facility Types**

- Existing Bike Routes (LTS Varies)
- Existing Wide Shoulders

INTERACTIVE MAP
WRAP UP

Albuquerque Bike Plan Survey More at: <https://www.abqbikeplan.com>

WELCOME
BIKING HABITS & BEHAVIORS
INTERACTIVE MAP INSTRUCTIONS

## Interactive Map

You have 25 tokens. Please select the projects you value the most. See tab 3 for a map legend.

### Coal Avenue

Tokens: 3

Should this be a priority?

Yes No

### Coal Avenue

**Project start location:** Broadway Boulevard  
**Project end location:** Elm Street  
**Facility type:** Separated Bike Lane - Improve Existing Facility  
**Timeline:** Plausible Near-Term

Tokens: 3

Map

Keyboard shortcuts Map data ©2023 Google Terms Report a map error

INTERACTIVE MAP
WRAP UP







## Highest Priority Projects

**Table 4: 20 Most Frequently Selected Projects**

Rank	Street	From	To	Proposed Facility	Timeline	Cost Level
1	University Boulevard	Avenida Cesar Chavez	Lomas Boulevard	Separated Bike Lane	Plausible Near-Term	Medium
2	Indian School Road	Broadway Boulevard	San Pedro Drive	Separated Bike Lane - Improve Existing Facility	Plausible Near-Term	Medium
3	San Pedro Drive	Ridgecrest Drive	Osuna Road	Buffered Bike Lane	Plausible Near-Term	Low
4	Las Lomas Road / Campus Boulevard	University Boulevard	Monte Vista Boulevard	Buffered Bike Lane / Enhanced Bike Route	Plausible Near-Term	Low
5	Comanche Road	San Mateo Boulevard	Tramway Boulevard	Separated Bike Lane	Plausible Near-Term	Medium
6	Constitution Avenue	Washington Street	Truman Street	Buffered Bike Lane ( <i>EB direction only</i> )	Plausible Near-Term	Low
7	North Diversion Channel Trail Extension <sup>^*</sup>	Balloon Museum Drive	Edith Boulevard	Paved Multi-Use Trail	Long-Term	High
8	Candelaria Road	San Isidro Street	I 40 Frontage Road Southbound	Separated Bike Lane	Plausible Near-Term	Medium
9	Washington Street	Indian School Road	Menaul Boulevard	Buffered Bike Lane	Plausible Near-Term	Low
10	Lead Avenue	2nd Street	Oak Street	Separated Bike Lane / Two-Way Cycle Track - Improve Existing Facility	Plausible Near-Term	Medium
11	Coal Avenue	Broadway Boulevard	Elm Street	Separated Bike Lane - Improve Existing Facility	Plausible Near-Term	Medium
12	Avenida Cesar Chavez	Broadway Boulevard	Yale Boulevard	Separated Bike Lane	Long-Term	Medium
13	Avenida Dolores Huerta <sup>^</sup>	La Vega Drive	Bosque Trail	Sidepath	Long-Term	High





Rank	Street	From	To	Proposed Facility	Timeline	Cost Level
14	Garfield Avenue	Buena Vista Drive	Morningside Drive	Bike Boulevard	Plausible Near-Term	Low
15	Claremont Avenue	Richmond Drive	Juan Tabo Blvd / Paseo de las Montañas Trail	Bike Boulevard	Long-Term	Medium
16	Diversion Channel Trail UNM Connection	Tucker Avenue	Yale Boulevard	Paved Multi-Use Trail	Long-Term	High
17	Coal Avenue	Elm Street	Oak Street	Separated Bike Lane - Improve Existing Facility	Long-Term	High
18	Griegos Road	12th Street	2nd Street	Buffered Bike Lane / Bike Lane	Plausible Near-Term	Low
19	Louisiana Boulevard <sup>1</sup>	Gibson Boulevard	Central Avenue	Separated Bike Lane/Buffered Bike Lane	Plausible Near-Term	Medium
20	Alvarado Drive	Eastern Avenue	I 40 Trail Bridge	Bike Boulevard	Plausible Near-Term	Low

*Note: The need for intersection crossings were generally considered as part of the cost associated with a corridor improvement and were not among the project options. Several comments indicated that trail crossings at major streets should be prioritized.*

<sup>^</sup> Project is located outside City boundaries and/or requires permission and coordination with external agencies

<sup>\*</sup> Project identified in the regional Long Range Bikeway System

<sup>1</sup> Project in progress; construction expected in 2024

# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN

## APPENDIX D: BIKEWAY EVALUATION PROCESS: OVERVIEW AND METHODOLOGY





## Background

### Purpose

As part of the 2024 *Bikeway and Trail Facilities Plan*, the City of Albuquerque revised an existing Bikeway Evaluation Process to reflect plan goals and emerging city policy priorities. The Bikeway Evaluation Process includes nine criteria across six priority categories that consider project benefits such as safety, equity, land use, access to destinations, and network connectivity. Scores for each criterion can be totaled by project and project scores may be compared to one another for prioritization purposes.

The evaluation criteria rely on a variety of existing datasets from the City of Albuquerque and the Mid-Region Council of Governments (MRCOG), including crash data, the Vulnerability Index, and the High Fatal Injury Network (HFIN), as well as datasets developed for the 2024 Plan, including level of traffic stress and trip potential analysis.

This document describes the criteria used in project prioritization and explains their link to plan goals and city policy priorities. While the criteria are specifically applied to the project list developed for the 2024 Plan, the evaluation process utilizes Census data and datasets that are regularly updated by MRCOG or City staff and therefore can be easily adapted for consideration of future projects.

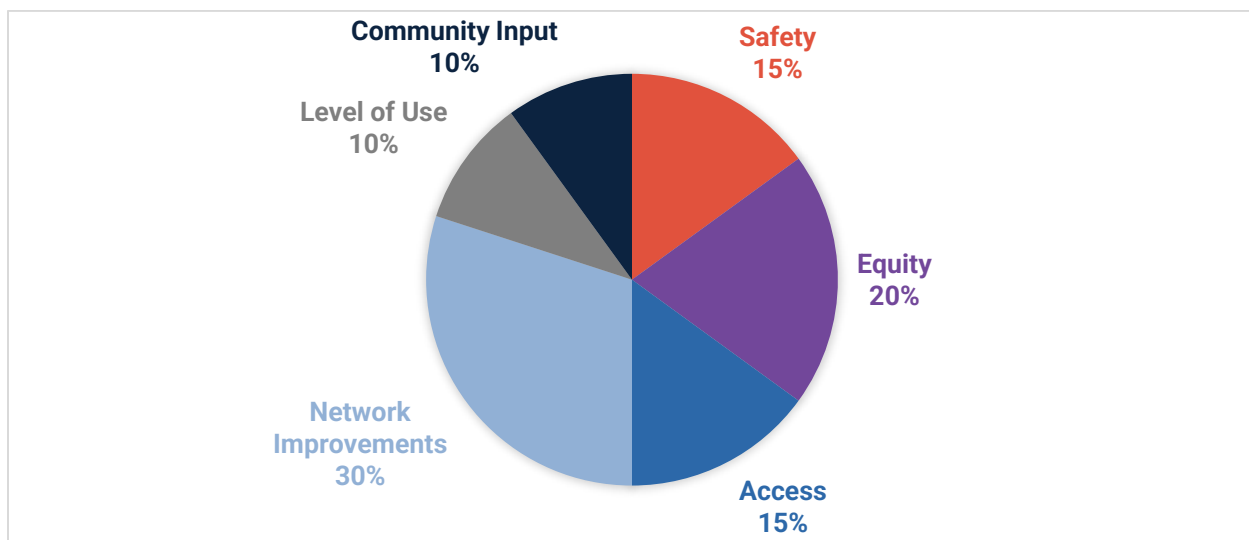
### Project Selection Considerations

Evaluation criteria reflect benefits associated with a particular project and the results of prioritization are intended to inform decision-making. However, it is important to note that projects may not always be implemented based on their priority ranking, and other factors are considered as part of project selection, including staffing, financial resources, and technical feasibility of a project. Some projects may also be implemented through ongoing resurfacing and restriping efforts that take place as part of the Annual Complete Streets Maintenance Program. To reflect these considerations, the 2024 Plan includes the potential timeframe for implementation (plausible near-term and long-term) and magnitude of cost estimates for all projects.



## Evaluation Criteria: Summary Table

Category	Criterion	Description	Max Score
Safety	<b>Bicyclist-Involved Crashes</b>	Points awarded based on the number of recorded crashes along the project corridor or a parallel route (if the project is along a neighborhood street or a trail).	<b>3</b>
	<b>High Fatal Injury Network</b>	Points awarded for projects located along an HFIN corridor or parallel route within 1/3-mile.	<b>3</b>
Equity	<b>Vulnerability Index</b>	Presence of vulnerable communities in the project area, including population groups that are most likely to rely on biking as a form of transportation; based on the Vulnerability Index.	<b>8</b>
Access	<b>Destinations</b>	Based on access provided to key destinations, such as schools, parks, transit stations, and community centers.	<b>3</b>
	<b>Comprehensive Plan Centers</b>	Based on access provided by project to designated Comprehensive Plan Centers.	<b>3</b>
Network Improvements	<b>Facility Needs</b>	Based on existing Bicycle Level of Traffic Stress (LTS) scores, with projects along higher stress facilities generating more points.	<b>4</b>
	<b>User Comfort</b>	Points awarded based on whether a proposed facility meets FHWA bikeway selection guidance.	<b>4</b>
	<b>Network Spine</b>	Based on whether project is along or intersects with a network spine that provides critical connections across the city.	<b>4</b>
Level of Use	<b>Potential For Bicycle Trips</b>	Based on a trip potential analysis that considers the share of short-distance trips (i.e., less than 2 miles) in the project area.	<b>4</b>
Community Input	<b>Community Input</b>	Based on input provided through an online survey map of proposed projects.	<b>4</b>
<b>Total</b>			<b>40</b>





## Safety

### Metric: Bicyclist-Involved Crashes

#### Overview

Bicyclists are particularly vulnerable to crashes involving motor vehicles and are disproportionately likely to suffer severe injuries compared to motorists. Quality infrastructure that reduces conflicts between vehicles and bicyclists is a high priority in the 2024 Plan. The inclusion of this criterion is based on the premise that enhanced bikeways are needed in locations that currently have high numbers of crashes.

#### Scoring Methodology

Points are awarded based on the recorded crashes along the project corridor (or parallel routes within 0.25 miles if the project is along a local road or a multi-use trail) for the most recent 5-year period for which crash data is available. The number of bicyclist-involved crashes is normalized based on the project length to allow for comparison of all projects, regardless of length.

Project Location Characteristics	Points
One or more fatal bicycle-involved crashes OR high rate of bicyclist-involved crashes	3
Medium rate of bicyclist-involved crashes	2
Low rate of bicyclist-involved crashes	1
0 non-fatal bicyclist-involved crashes	0

*Note: The most recent crash data at the time of the completion of the 2024 Plan was from 2018-2022.*

### Metric: High Fatal Injury Network

#### Overview

Expanded bikeways are an important part of the City's commitment to Vision Zero, which sets a goal of zero fatalities and serious injuries by 2040. As part of the Vision Zero Year in Review (2023), the City of Albuquerque created an updated and simplified HFIN network comprised of priority safety corridors. The HFIN considers locations with high numbers of severe crashes compared to the City overall. Creating safer conditions for people biking along these high-risk corridors – or quality facilities on a parallel route – aligns with Vision Zero's goal of protecting vulnerable road users and eliminating all traffic-related fatalities.

#### Scoring Methodology

Points awarded for projects located along HFIN corridor or a parallel route within 0.33 miles of an HFIN corridor.

Project Benefits/Location Characteristics	Points
Project located along or within 0.33 miles of HFIN corridor	3
Project intersects with multiple HFIN corridors	2
Project intersects with one HFIN corridor	1
Project is not located along/does not intersect with HFIN corridor	0





## Equity

### Metric: Vulnerability Index

#### Overview

Bikeway investments can address equity-related concerns by prioritizing projects that are likely to benefit historically marginalized groups or populations that are more likely to depend on bicycling as a means of transportation. Providing quality transportation infrastructure in these areas is a critical means of improving access to jobs and services and supporting healthy lifestyles. The Mid-Region Council of Governments (MRCOG) maintains and regularly updates a Vulnerability Index that considers economic, demographic, housing, and transportation factors and can be used to identify populations that are at increased risk of traffic violence. Data is available at the census tract level and features a composite percentage ranking based on combined population variables, with higher values indicating greater levels of vulnerability.

**Table 1: Vulnerability Index Variables**

Type	Variables
<b>Economic</b>	Unemployment, poverty
<b>Demographic</b>	Gender, seniors, youth, disability, race (persons of color), ethnicity (Hispanic/Latino), English proficiency, foreign born, educational attainment, single-parent households
<b>Housing</b>	Multifamily, mobile homes, crowding, group quarters
<b>Transportation</b>	Vehicles available

#### Scoring Methodology

Points are awarded based on a weighted average vulnerability score among the portions of census tracts that intersect with a 0.25-mile buffer around the project area.

Project Benefits/Location Characteristics	Points
Average vulnerability score for project area in <i>highest</i> quintile (80-100%)	8
Average vulnerability score for project area in <i>fourth</i> quintile (60-80%)	6
Average vulnerability score for project area in <i>third</i> quintile (40-60%)	4
Average vulnerability score for project area in <i>second</i> quintile (20-40%)	2
Average vulnerability score for project area in <i>lowest</i> quintile (0-20%)	0



## Access

### Metric: Access to Major Destinations

#### Overview

A useful bicycle network relies on access to major destinations, including schools, parks, major transit stops and community facilities. The City of Albuquerque maintains a spatial data inventory of destinations, classified as either major or minor depending on the number of trips generated by each destination type.

**Table 2: Destinations by Type**

Destination	Type	Destination	Type
ART Stops	Major	Park/Open Space (<10 acres)	Minor
Charter School	Minor	Park/Open Space (>10 acres)	Major
Community/Senior Center	Major	Private Schools and Universities	Minor
Cultural Site (e.g. Museum, Theater)	Major	Public School (ES, MS, HS)	Major
Hospital	Major	Public University (UNM, CNM)	Major
Library	Major	Rail Runner Stations and Transit Park-and-Ride Facilities	Major
Medical Clinic	Minor	Transit Stops Along Frequent Routes (i.e. one bus every 15 minutes or less)	Minor

#### Scoring Methodology

Points are awarded based on whether a project provides access to one or more destinations, with access to major destinations generating higher points. Projects that provide access to multiple destinations receive the most points. A project or corridor is considered to provide access if it passes within 0.25 of a destination.

Project Benefits	Points
Access to 3 or more major destinations	3
Access to 2 major destination or 3 or minor destinations	2
Access to $\leq 2$ minor destinations	1
No access to major or minor destinations	0



## Metric: Comprehensive Plan Centers

### Overview

The Comprehensive Plan identifies a series of designated Centers where development should be concentrated and where trips could be made more easily by walking or biking. Comprehensive Plan policy guidance asserts that Centers should be linked together through a range of transportation options, including bikeways.

### Scoring Methodology

Points are awarded based on whether a project provides access to one or more designated Comprehensive Plan Centers, with projects that link together multiple Centers receiving the most points. A project or corridor is considered to provide access if it passes within 0.25 miles of a Center.

Project Benefits	Points
Access to multiple Comprehensive Plan Centers	3
Access to one Comprehensive Plan Center	2
No access to Comprehensive Plan Center	0

## Network Improvements

### Metric: Facility Needs

#### Overview

The 2024 Plan uses a Bicycle Level of Traffic Stress (LTS) analysis to quantify how stressful it is to bike on a particular street. LTS is based on the premise that a person's level of comfort on a bicycle increases as separation from vehicular traffic increases, or as traffic volume and speed decrease. Roadways with high LTS levels create barriers for people biking and require the greatest level of improvements in order to provide conditions that appeal to people of all ages and abilities.

### Scoring Methodology

**General bikeway projects:** Points in this criterion are based on the average LTS scores for the segments along a project route. The average score is weighted based on the length of each segment. Higher average LTS scores indicate the greatest room for improvement in user comfort level.

**Multi-use trails and bike boulevards:** For multi-use trails and bike boulevards located along low-stress neighborhood streets, the barriers to bicycling are typically crossings of major streets. For these project types, points are awarded based on the number of enhanced crossings (i.e., PHBs or RRFBs) along the project route.

Project Benefits/Location Characteristics		Points
Corridors/LTS Scores	Enhanced Crossings	
Average LTS > 3.5	≥4 enhanced crossings along project corridor	4
Average LTS = 2.51-3.5	3 enhanced crossings along project corridor	3
Average LTS = 1.51-2.5	2 enhanced crossings along project corridor	2
Average LTS = 1.25-1.5	1 enhanced crossing along project corridor	1
Average LTS = 1	Zero enhanced crossings	0



## Metric: User Comfort

### Overview

Bikeways are most likely to be utilized – and to appeal to users of all ages and abilities – if they provide a high level of user comfort. The 2024 Plan references the FHWA [Bikeway Selection Guide](#) for appropriate facility types based on the roadway conditions and surrounding context.

### Scoring Methodology

Projects are awarded points if the proposed bikeway matches the recommended facility type contained in the FHWA [Bikeway Selection Guide](#), based on the posted speed limit and traffic volumes.

Project Benefits	Points
Proposed project <i>meets</i> FHWA facility selection guidance	4
Proposed project <i>does not</i> meet FHWA facility selection guidance	0

## Metric: Network Spine

### Overview

The 2024 Plan identifies a network of longer distance bikeways, or spines, which provide connections across the city. These spines include both existing and proposed facilities. A network is most useful when these spines feature low-stress, high comfort facilities.

### Scoring Methodology

Projects along network spines receive maximum points in this criterion. Projects that intersect with network spines and provide connections to these critical facilities also receive points.

Project Benefits	Points
Project along existing or proposed network spine	4
Project intersects with multiple network spines	2
Project intersects with network spine	1
Project does not intersect with a network spine	0



## Potential Level of Use

### Overview

A primary goal of the 2024 Plan is to create a useful and safe network that increases the overall share of trips that are taken by bicycle. Rather than consider existing bicycling trips, which depends on limited counts data or app-based tools such as Strava that are biased toward wealthier and recreational riders, the evaluation process utilizes *trip potential* data that synthesizes Census and commercially available data on travel behavior to model the number of short distance trips that take place at a small geographic level (e.g., block groups). Short distance trips are generally a function of population density and nearby employment opportunities, which attract work and shopping/service trips. Locations with high shares of short distance trips therefore indicate the potential for more bicycling trips if quality infrastructure were provided.

### Scoring Methodology

Points are awarded based on the share of trips that originate and/or terminate in the project area that are less than two miles in length. The total share of trips is based on a weighted average of conditions in the Census block groups along the project area.

Project Benefits	Points
Highest quintile of short distance trips	4
Fourth quintile of short distance trips	3
Third quintile of short distance trips	2
Second quintile of short distance trips	1
Lowest quintile of short distance trips	0

## Community Support

### Overview

Input on proposed projects for the 2024 Plan was possible through an online survey map in which participants could indicate their highest priorities. The survey map was available through the project website and hardcopy sticker maps at pop-up events and the in-person community meeting.

### Scoring Methodology

Points are awarded based on the number of votes in favor of each project.

*Note: Additional projects were identified after the survey map was administered. In these cases, project benefit points were awarded based on the number of positive public comments for the nearest parallel facility*

Project Benefits	Points
Highest quintile of public comments	4
Fourth quintile of public comments	3
Third quintile of public comments	2
Low number of public comments	1
No comments received	0





## Discussion/Future Considerations

### Relationship to Vision Zero Project Evaluation

As part of the City of Albuquerque Vision Zero Initiative, the Department of Municipal Development adapted the Bikeway Evaluation Process to prioritize streets on the HFIN for safety improvement projects. The **HFIN Evaluation Process** retains similar criteria and basic structure of the Bikeways Evaluation Process but includes changes to individual metrics to ensure applicability to a wider range of projects and to align with Vision Zero goals.

### Use of Strava Data

Previous versions of the Bikeway Evaluation Process utilized Strava data as a measure of existing bicycling rates along a project area. However, Strava captures an incomplete picture of bicycling behavior since the data only reflects users of the app, who tend to be higher income and engage in more recreational trips. By contrast, the trip potential analysis utilized in the updated evaluation process considers the *demand* for short distance trips.

### Potential Applications of the Bikeway Evaluation Process

The Bikeway Evaluation Process was initially applied to projects identified on a priority bike gap closure list developed by the Greater Albuquerque Bicycling Advisory Committee (now GAATC) and to recommendations that emerged from the *I-25 Bicycle Accessibility Study*. The process may be more broadly applied in the future as a screening process for City bikeway, pedestrian, and/or trail projects. Among the potential applications include:

- General priority project lists
- Priority gap closure needs
- Potential projects contained in the Long Range Bikeway System

### Ongoing Data Updates

The Bikeway Evaluation Process utilizes existing datasets, including the HFIN and the Vulnerability Index, as well as other data derived from the Census and other publicly and commercially available sources. Future application of the evaluation process will require ongoing updates.

# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN

## APPENDIX E: BIKE BOULEVARD TOOLKIT





## Table of Contents

<b>Introduction</b>	<b>5</b>
<b>1) Principles of a Bike Boulevard</b>	<b>6</b>
Manage Traffic Volumes and Speeds	6
Traffic Counts and Speed Data Collection	6
Make the Network Intuitive Through Wayfinding and Branding	7
Designing for Bicycle Priority at Local Street Crossings	7
Promote Bicyclist Comfort	8
Create Enclosure Using Existing Narrow Streets or Adding Street Design Features to Narrow a Wider Street	8
Considering Natural and Infrastructure Barriers and Topography	8
Build a Network That Connects People to Community Destinations	8
<b>2) Bike Boulevard Design Elements</b>	<b>10</b>
Elements of a Bike Boulevard	10
Route Identification	11
Wayfinding and Branding	11
Shared Lane Markings	11
Guiding Principles for an Effective Bicycle Wayfinding System	12
Bicycles May Use Full Lane Signs	13
Reduced Speed Limits	13
Narrow Drivable Space and Sense of Enclosure	13
Striped On-Street Parking	13
Sense of Enclosure Through Design Interventions	14
Parking on Bike Boulevards	14
Prioritizing Travel for the Bike Boulevard at Crossings with Other Local Streets	14
<b>3) Traffic Controls and Intersection Treatments at Major Street Crossings</b>	<b>15</b>
Definitions and General Considerations	15
Traffic Signals and Enhanced Crossings	16
Enhanced Crossings Treatments on Bike Boulevards	16
Offset Intersection Treatments and Travel along Major Streets	17
Bike Lane with Two-Stage Bicycle Turn Box	17
Sidepath or Two-Way Separated Bike Lane Connection	18
Staggered Crossing with Raised Median	18
<b>4) Traffic Calming Strategies (Speed Management)</b>	<b>20</b>
Horizontal Deflection Treatments	21



Pinch Points	21
Chicanes	22
Neighborhood Mini Traffic Circles	23
Vertical Deflection Treatments	24
Speed Humps, Raised Crosswalks and Speed Tables	24
Raised Intersection	25
Speed Cushions	25
<b>5) Traffic Diversion Strategies (Volume Management)</b>	<b>26</b>
Major Street Medians	26
Diagonal Diverters	27
Forced Turns and Partial Closures	28
Regulatory Signage	28



# List of Figures

Figure 1: Conditions along Silver Ave Bike Boulevard ..... 7

Figure 2: Candidate Bike Boulevard Route Screening Flow Chart ..... 9

Figure 3: Wayfinding Sign with Route Name Identification and Advance Turn Notice ..... 11

Figure 4: Mile Markers along Silver Ave Bike Boulevard..... 11

Figure 5: Street Sign Toppers as part Albuquerque Bike Boulevard Network..... 11

Figure 6: Shared Lane Markings with Striped Parking Lanes..... 12

Figure 7: Wayfinding Markings..... 12

Figure 8: Bicycle Stencil Markings ..... 12

Figure 9: Bicyclist May Use Full Lane Sign ..... 13

Figure 10: Bike Boulevard Speed Limit Sign in Albuquerque ..... 13

Figure 11: Example of Cross Traffic Does Not Stop Plaque ..... 14

Figure 12: Pedestrian Hybrid Beacon along Fair Heights Bike Boulevard..... 16

Figure 13: Example of a Two-Stage Bicycle Turn Box ..... 17

Figure 14: Example Two-Way Sidepath along Neighborhood Street..... 18

Figure 15: Examples of Staggered Crossings with Raised Medians along Bike Boulevards in Albuquerque . 19

Figure 16: Road Narrows Plaque..... 21

Figure 17: Example of One Lane Pinch Point ..... 21

Figure 18: Example of Chicane Use as Traffic Calming Treatment..... 22

Figure 19: Mini Traffic Circle along Silver Ave Bike Boulevard ..... 23

Figure 20: Example of Raised Crosswalk and Raised Intersection..... 24

Figure 21: Example of Speed Cushion..... 25

Figure 22: Raised Median along Silver Ave Bike Boulevard ..... 27

Figure 23: Example of Diagonal Diverter and Partial Street Closure with Bicycle Cut Through along Local Street..... 28

Figure 24: Examples of Regulatory Signage..... 28

# List of Tables

Table 1. Summary of Bike Boulevard Elements Within The Toolkit..... 5

Table 2. Bike Boulevard Traffic Speed and Volume Thresholds..... 6

Table 3. Summary of Bike Boulevard Design Elements..... 10

Table 4. Summary of Traffic Control and Intersection Treatments at Major Street Crossings..... 15

Table 5: Summary of Traffic Calming Treatments ..... 20

Table 6: Curb-to-Curb Width and Potential Design Interventions ..... 20

Table 7. Summary of Traffic Diversion Treatments..... 26





# Introduction

Bike boulevards are low-speed, low-volume local streets that are comfortable places for people of all ages and abilities to ride bikes. Bike boulevards are shared facilities that do not separate people biking from people driving, but instead depend on moderating vehicle speeds and creating as much awareness as possible of the presence of people biking. They are generally located parallel to major streets that are desired paths of travel and are intended to provide low-stress connections to community destinations.

Over the last decade, the City of Albuquerque has introduced a series of bike boulevards that now connect Old Town, Downtown, the University of New Mexico (UNM), Nob Hill, the Fair Heights neighborhood, and Uptown. This toolkit provides guidance for what types of streets are appropriate candidates for bike boulevards and how to design these streets to function effectively as bike boulevards. This toolkit is intended to be accessible to a wide audience of community members and stakeholders, including engineers, planners, bicycle advocates, and curious residents, and draws from the lessons learned through bike boulevard development in the City of Albuquerque and emerging best practices from around the US. The toolkit was developed alongside the update to the City of Albuquerque Bikeways and Trails Facilities Plan.

This design toolkit is intended to complement local technical design manuals, such as:

- City of Albuquerque [Development Process Manual](#) Chapter 7 (2020)
- City of Albuquerque [Neighborhood Traffic Management Program](#) (NTMP) (2020)
- City of Albuquerque *Bicycle and Trail Crossing Guide* (2022)

This toolkit begins with an overview of the principles of a bike boulevard, followed by key bike boulevard design elements and traffic controls for major and minor streets. This toolkit also includes strategies to calm traffic by managing vehicular speed and divert traffic by managing vehicular volumes. Table 1 includes the main features included in a bike boulevard.

**Table 1. Summary of Bike Boulevard Elements Within The Toolkit**

<b>Bike boulevard design elements</b>	Route identification
	Reduced speeds
	Narrow drivable or operating width (e.g., striped on-street parking)
	Prioritized travel along bike boulevard
<b>Traffic controls for major street crossings</b>	Traffic signals and enhanced crossings
	Offset intersection treatments
<b>Traffic calming strategies to manage vehicle speeds</b>	Horizontal deflection treatments (e.g., traffic circles)
	Vertical deflection treatments (e.g., speed humps)
<b>Traffic calming strategies to manage traffic volumes</b>	Major street medians
	Regulatory signs
	Diagonal diverters and partial closures



## 1) Principles of a Bike Boulevard

The purpose of bike boulevards is to provide low-stress bicycling routes that are intuitive to use and connect people to community destinations and other bikeways that appeal to people biking of all ages and abilities, such as multi-use trails. The principles below form the basis for selecting bike boulevard candidate corridors and ensuring that the facility design serves the needs of all users.

### Manage Traffic Volumes and Speeds

One of the most important reasons someone will choose whether or not to bike on a street is the speed and volume of motor vehicle traffic on that street. To provide the most comfortable bicycling experience for all ages and abilities, bike boulevards need to have low volumes of motor vehicle traffic, and people driving motor vehicles along the bike boulevard should be moving slowly enough to maintain a comfortable environment for people biking.

Table 2 shows the preferred thresholds for traffic volumes and speeds along bike boulevards and at major street crossing opportunities in Albuquerque. The traffic volumes assume the bike boulevard is on a two-way street. The volumes should be divided in half if the bike boulevard is on a one-way street.

**Table 2. Bike Boulevard Traffic Speed and Volume Thresholds**

Peak Hourly Traffic Volume	Average Daily Traffic: Preferred	Average Daily Traffic: Acceptable	Operating Speed
≤120 vehicles	≤1,000	1,000-2,000	≤20 mph

A daily traffic volume of 1,200 roughly equates to 120 vehicles in the peak hour, or one vehicle traveling down the street every 30 seconds on average. This level of volume is low enough that people biking will infrequently be passed by people driving a motor vehicle. Lower vehicle operating speeds (e.g., 18 or 20 MPH compared to standard 25 MPH on local roads in Albuquerque) increases safety by reducing the speed differential between people biking (which generally travel at 8 to 12 mph on flat terrain) and people driving a motor vehicle. This leads to a lower likelihood of a crash occurring and improves the sense of comfort for people biking.

If candidate bike boulevard streets do not currently meet the criteria outlined in Table 2, they should be redesigned to achieve these target traffic volume and speed thresholds by using the strategies outlined in Chapter 4) Traffic Calming Strategies and Chapter 5) Traffic Diversion Strategies.

Potential measures include restricting through movements for motor vehicles at major intersections and using traffic calming to reduce the current operating speeds on the street. In cases where the candidate street is too wide, with too high of traffic volume, and too high of motor vehicle speeds, it may be necessary to evaluate adjacent corridors to find a street that is a better candidate for a bike boulevard.

### Traffic Counts and Speed Data Collection

The collection of traffic counts and speed data along potential bike boulevard routes is recommended to determine both the viability of the route as a bike boulevard and whether traffic volume and speed should be further managed to make the corridor comfortable for people who are biking.

## Make the Network Intuitive Through Wayfinding and Branding

In addition to designing the streets to be safe and convenient, bike boulevards should include wayfinding and branding. Bike boulevard wayfinding should be frequent enough to guide people to community destinations. Bike boulevard streets should be branded with the standard purple Albuquerque bike boulevard signage (see Figure 1) to communicate to people biking where the routes are and to demonstrate to people driving that they can expect to see people bicycling on the street.

The wayfinding and branding elements of bike boulevards also help establish a network where people biking do not have to spend excessive time ahead of their trip planning a safe route. Rather, people bicycling can walk out the door and follow the signs and pavement markings that confirm they are on an optimal route for biking toward their destination.

## Designing for Bicycle Priority at Local Street Crossings

One of the benefits of bike boulevards being located along local streets is that they mostly cross other low-traffic volume local streets until people biking arrive at a major street crossing. In much of Albuquerque, these major street crossings are located every half-mile. To encourage local trips by bicycle, bike boulevards should generally have the right of way at local street intersections and stop signs should be placed on the roads intersecting the bike boulevard. This approach minimizes stops for people biking, as getting back up to speed on a bicycle after stopping requires more energy than in a motor vehicle. Additionally, if stop signs are placed for people biking in locations where there are low cross-traffic volumes, people biking may disregard stop signs.

It is important to note that by changing the right of way for people biking on local streets alone, streets may inadvertently become good cut-through routes for people driving. Therefore, changing the right of way at local street intersections should be coupled with traffic calming elements, such as traffic circles, and volume management elements, such as medians restricting through motor vehicle traffic at major street crossings.

**Figure 1: Conditions along Silver Ave Bike Boulevard**





## Provide Safe and Convenient Crossings at Major Streets

Major street crossings are often a barrier that prevent people from biking to community destinations. Providing safe and convenient crossings at major streets is an equally important principle to managing traffic volumes and speeds along the bike boulevard. Bike boulevard candidate streets are chosen specifically because they have low existing traffic volumes. This often means that low-volume streets do not have existing bicycling or pedestrian crossing infrastructure when intersecting with major streets because traffic signals are located at intersections of other major streets with higher vehicular volumes. Planners and designers should evaluate major street crossing locations based on crossing street traffic volume and speed, as well as the number of lanes to cross, to determine how to improve the safety and convenience of the crossing for people biking. The City of Albuquerque *Bicycle and Trail Crossings Guide* should be used to determine the appropriate crossing treatment at major streets.

## Promote Bicyclist Comfort

In addition to designing safe infrastructure and signing and branding for bike boulevard streets, there are other factors that help make bike boulevards comfortable for everyone. These include the concepts of creating a sense of enclosure and accounting for natural topography and barriers as part of route decisions.

### ***Create Enclosure Using Existing Narrow Streets or Adding Street Design Features to Narrow a Wider Street***

Local streets in Albuquerque have been built with a variety of pavement widths, sidewalk configurations, and plantings. Narrower streets feel more comfortable for people biking and naturally slow motor vehicle traffic. The presence of street trees also increases the feeling of enclosure and safety along a narrow street. When selecting candidate bike boulevard streets, designers should evaluate the existing street width and character to determine if additional techniques to narrow the roadway are necessary to increase the sense of enclosure.

In addition to landscaping, a sense of enclosure can be created by reducing the paved area of a roadway that is open to people driving through striping on-street parking or installing design interventions such as diverters. In some cases where a local street is sufficiently low-volume and low-speed, but the street is too wide, a parallel street should be considered if it is narrower and still connects well with the overall bike network.

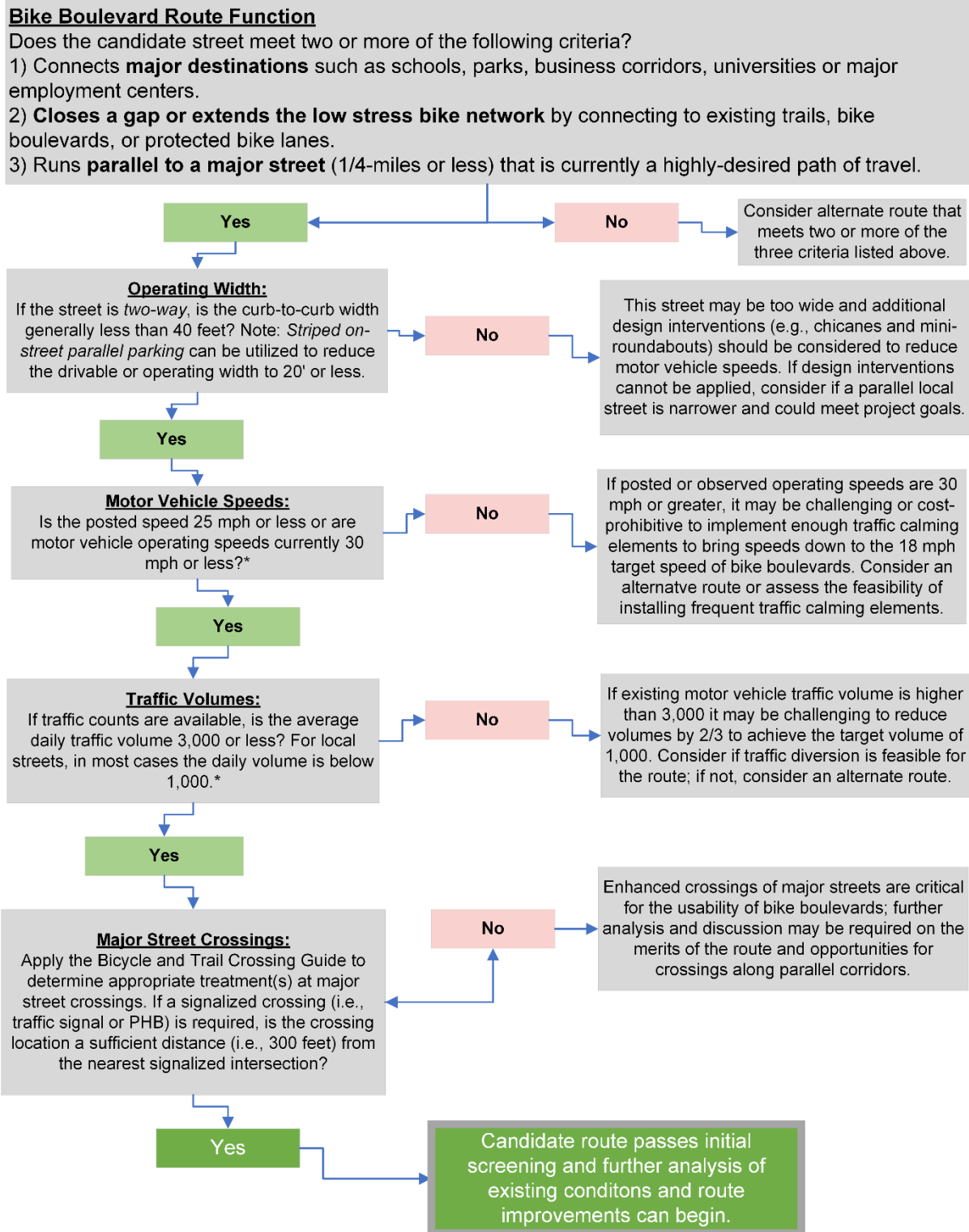
### ***Considering Natural and Infrastructure Barriers and Topography***

Bike boulevard routes should be chosen to use existing crossings of natural barriers (such as arroyos and rivers) and infrastructure barriers (such as railroad tracks and highways) where possible. Additionally, major inclines can present a barrier to people biking on a street. Route topography should therefore be considered to determine the route with the most gradual grade changes.

## Build a Network That Connects People to Community Destinations

The bike boulevard network should conveniently connect people to community destinations and other low-stress bikeways, including multi-use trails. In Albuquerque, the best candidate streets for bike boulevards can be challenging to implement due to the high cost of improving major street crossings. However, the bike boulevard network should strive to connect people as directly as possible to community destinations. Re-routing a candidate bike boulevard to a different street should not create a more indirect route because it will likely be used less than a more direct route.

**Figure 2: Candidate Bike Boulevard Route Screening Flow Chart**



\*Consider collecting information on vehicle speeds and traffic counts for candidate routes if no data is available.





## 2) Bike Boulevard Design Elements

Baseline bike boulevard design elements include route identification, reduced speed limits, and traffic controls for minor street crossings. A summary of these elements, as well as their specific treatments, their level of benefits, their level of effort regarding implementation, and notes on the appropriateness of the treatments, is shown in Table 3. Each element is described in detail in the following sections. Note that standard bike boulevard features should be paired with other treatments to reduce traffic volume and manage vehicle speeds.

### Elements of a Bike Boulevard

**Table 3. Summary of Bike Boulevard Design Elements**

	Treatment	Level of Benefit	Ease of Implementation	Appropriateness and Benefit
Route Identification	Wayfinding and Branding	●	○	<b>Core feature of bike boulevard:</b> Identifies bike boulevards as streets where people biking are present and should be given priority.
	Shared Lane Markings	◐	○	<b>Core feature of bike boulevard:</b> Builds awareness that people biking are present and for navigation.
	Bicycles May Use Full Lane Signs	○	○	<b>Core feature of bike boulevard:</b> Creates further awareness that people biking are present and should be given priority.
Reduced Speed and Traffic Volumes	Traffic Calming	●	◐	<b>Use depends on street conditions:</b> In many cases, some level of traffic calming is desired to lower motor vehicle speeds to make it comfortable for people biking.
	Traffic Diversion	●	◐	<b>Use depends on street conditions:</b> Median and partial road closures reduce vehicle cut-through traffic and create lower-stress conditions for people biking.
	Reduced Speed Limits	◐	○	<b>Core feature of bike boulevard:</b> Communicates to people driving that bike boulevards are unique streets and slower vehicle speeds are required.
	Striped Parking Lanes	◐	○	<b>Use depends on street conditions:</b> Creates sense of enclosure and narrows drivable space on local roads with on-street parking.
Street Crossings	Enhanced Crossings at Intersections with <b>Major Streets</b>	●	●	<b>Core feature of bike boulevard:</b> Ensure crossing opportunities for people biking of all ages and abilities; extends network to connection between neighborhoods.
	Prioritize Travel at Crossings with Other <b>Local Streets</b>	●	○	<b>Core feature of bike boulevard:</b> Appropriate to communicate bicycle priority on the route to people biking and driving.

High ● Medium ◐ Low ○

## Route Identification

Route identification is comprised of multiple elements working in conjunction to communicate the location and path of a bike boulevard. These elements include:

- Wayfinding and branding
- Shared lane markings
- “Bicycles May Use Full Lane” signs

### Wayfinding and Branding

**Definition:** Wayfinding is a system of navigational signs that aid people bicycling in reaching their destinations (see Figure 3). Wayfinding signs on bike boulevards should work in conjunction with the rest of the bicycle network, such as bike lanes and multi-use trails and should be designed for people biking of all ages and abilities. The frequency of this treatment should be every two to four blocks, in addition to before and after every turn.

**Complementary Treatments:** Wayfinding signs should not be considered a stand-alone alternative to, or substitute for, safety improvements. For this reason, it may be desirable to supplement bicycle wayfinding signs with other roadway improvements to accommodate bicycle travel, depending upon motor vehicle speeds and volumes along the route.

**Route Based:** Many bike boulevard wayfinding systems are route-based, meaning they are designed to identify all routes within a signed bicycle network uniquely. This approach, similar to an interstate system, may be accomplished for bicycle routes by providing a unique sign identifier – a route name, number, letter, shape, color, logo, or some combination of these features.

**Figure 3: Wayfinding Sign with Route Name Identification and Advance Turn Notice**



**Figure 4: Mile Markers along Silver Ave Bike Boulevard**



**Figure 5: Street Sign Toppers as part Albuquerque Bike Boulevard Network**



### Shared Lane Markings

**Definition:** Shared lane markings, sometimes referred to as “sharrows,” are roadway stencils that communicate to both the person biking and the person driving. For the person biking, it is one element that communicates the road is a designated bike boulevard (other elements include wayfinding and traffic signage). For people driving, it alerts them to expect people biking on the roadway.

**Application and Design Considerations:** Shared lane markings should be placed along each block (in each direction of travel), in accordance with guidance from the Manual on Uniform Traffic Control Devices (MUTCD) and may be complemented by bicycle stencils. Shared lane markings can also be used in conjunction with **wayfinding markings** to indicate when people biking should make a turning movement. In these cases, the pavement marking can be modified to include a turn arrow that indicates the direction of the turning movement (shown in Figure 7).

**Figure 6: Shared Lane Markings with Striped Parking Lanes**



**Figure 7: Wayfinding Markings**



**Figure 8: Bicycle Stencil Markings**



Shared lane markings should not be considered bikeways unless they are installed with other design features that slow and reduce motor vehicle traffic. The lateral placement of a shared lane marking is measured from the center of the chevron marking to the face of the curb or edge of the pavement. On bike boulevards, shared lane marking placement should be in the middle of the motor vehicle travel lane. This placement guidance is only applicable to bike boulevards and should be reevaluated if they are to be placed on other roadway types.

### Guiding Principles for an Effective Bicycle Wayfinding System

**Simplicity:** Intuitive wayfinding helps people biking navigate and understand where they are in relation to nearby landmarks and destinations. Information should be clear, legible, and simple enough to be understood by a wide audience. In addition, bicycle wayfinding must provide concise messages, revealing enough information without overwhelming the user. Information on each sign should be kept to a minimum to avoid confusion and facilitate quick comprehension. Wayfinding should be placed efficiently to minimize sign clutter.

**Legibility:** Legibility is a key goal of bicycle wayfinding sign design. Title case (upper and lowercase letters) should be used on all destination signs. Where signs will be read by moving people biking, a font height of 2 in. for the lowercase letters is the minimum height, with 2.5 in or larger recommended to provide adequate sight distance and response time.

**Consistency:** Wayfinding systems should have common styles, fonts, colors, materials, and placement to promote continuity and help users quickly understand and interpret messages without having to stop their bicycle. Sign frequency and placement should be consistent, so users know what to expect.



## Bicycles May Use Full Lane Signs

**Definition:** Being overtaken by a motor vehicle in a shared lane can cause significant stress to a person bicycling, particularly if they are passed too closely by a vehicle traveling at a higher speed. Some states and cities have passed legislation requiring motor vehicles to provide a minimum clearance when passing a bicycle; the City of Albuquerque's [Traffic Code](#) states a minimum passing distance of five feet (§ 8-3-3-10). The frequency of these signs should be approximately two every four blocks (one in each direction of travel).

**Application and Design Considerations:** To emphasize priority for people biking on a bike boulevard, the BICYCLES MAY USE FULL LANE sign (R4-11 of the [Manual on Uniform Traffic Control Devices](#)) may be used in situations where people driving must wait behind slower moving people biking or change lanes to pass a person biking at a safe distance.

## Reduced Speed Limits

**Definition:** Reduced speed limits do not by themselves reduce vehicle speeds. The standard speed limit on residential streets in Albuquerque is 25 miles per hour (mph); however, bike boulevards currently have a designated speed limit of 18 mph. While 18-mph is not a federally recognized speed limit since it is not an increment ending in 5 or 0, its application is intended to be unique and to catch the attention of people driving on bike boulevards.

**Application and Design Considerations:** Where lower speed limits are authorized, a Speed Limit sign (R2-1) should be located at the beginning of the bike boulevard and on each block where the reduced speed limit applies to ensure people driving are aware of the reduced limit (see Figure 10). The frequency of regulatory speed limit signs should be two every two blocks (one in each direction of travel).

## Narrow Drivable Space and Sense of Enclosure

### Striped On-Street Parking

**Definition:** Striping parallel on-street parking lanes on local roads can narrow the drivable or operating width of a street, causing people driving to slow down. Striped on-street parking also encourages people bicycling to ride more towards the center of the road and avoid colliding with any unexpectedly opened car doors. This treatment should be paired with shared lane markings, wayfinding and branding signage, and other bike boulevard treatments to be considered part of the bike boulevard route identification.

**Application and Design Considerations:** Striped parking lanes are a preferred technique on bike boulevards and should be implemented throughout a bike boulevard where on-street parking is present. See Figure 6 for an example of striped on-street parking in Albuquerque.

Figure 9: Bicyclist May Use Full Lane Sign



Figure 10: Bike Boulevard Speed Limit Sign in Albuquerque



## Sense of Enclosure Through Design Interventions

**Definition:** A sense of enclosure can also be created through street trees and traffic calming measures that reduce the drivable area of a street, such as diverters and chicanes.

**Application and Design Considerations:** See the Traffic Calming Strategies (Speed Management) chapter for additional details.

### Parking on Bike Boulevards

Striping parking lanes also creates a sense of enclosure for people in general traveling on the road. Bike boulevards generally travel through low-stress, local roads that have residential homes or small-scale commercial shops. On residential streets, parallel parking can help create a sense of enclosure for people biking, though high parking turnover can create stress for people biking. If a bike boulevard travels through a commercial area, or is located on a wider street, reverse angle parking (also called back-in angle parking) is preferred. See 7-4(H)(2)(ii) in the [Development Process Manual](#) for additional

## Prioritizing Travel for the Bike Boulevard at Crossings with Other Local Streets

**Definition:** The general goal of a bike boulevard is to prioritize travel for people biking along the corridor. For crossings of bike boulevards with minor streets, defined as a neighborhood street with a functional classification of “Local Road,” the right of way should be prioritized for the bike boulevard route.

**Application and Design Considerations:** On long corridors with a frequent application of all-way or two-way stop control, the efficiency of travel along the bike boulevard can be improved by removing stop controls and requiring the cross street to stop or yield, or by utilizing roundabouts or mini traffic circles. This strategy for prioritizing people bicycling on bike boulevards should be applied throughout the bike boulevard.

The removal of stop signs can result in increased motor vehicle speeds and volumes or induce cut-through motor vehicle traffic when the bike boulevard parallels a congested arterial or is the only route through an area with few connecting streets. It may be necessary to install traffic calming or diversion treatments to discourage or prevent increased traffic volume, speeds, or both.

Additional parking restrictions may be desirable to “daylight” corners and to improve sight distance at locations where stop signs are removed or yield control is provided. It may also be beneficial to supplement stop or yield signs on side streets with the following plaques or branding strategies to highlight the fact that cross-street traffic, including people biking, do not stop:

- Cross Street Traffic Does Not Stop (W4-4P) plaque (Figure 11)
- Bike boulevard wayfinding sign to highlight the presence of people biking

**Figure 11: Example of Cross Traffic Does Not Stop Plaque**







### 3) Traffic Controls and Intersection Treatments at Major Street Crossings

#### Definitions and General Considerations

Crossings of major streets, defined as either collector or arterial roads, can be a significant barrier along bike boulevards. Local streets will typically have stop control at the approach to the major street, while the major street will be uncontrolled. Enhanced crossings at these locations are critical as a bike boulevard designation implies low-stress connections to community destinations and that people biking of all ages and abilities can safely navigate the route. Intersection crossings should also assume that people walking may utilize the crossing and should include crosswalk markings and accessibility features, along with other appropriate design measures to accommodate people walking and bicycling.

A summary of potential treatments at major street crossings, their level of benefits, level of effort for implementation, and notes on the appropriateness of the treatments, is provided in Table 4. Note that these crossing treatments are context-dependent, and they are optimal when paired with other bike boulevard design elements. Included in the guidance are treatments for offset intersections, which are common features of intersections of local and major streets in Albuquerque. The guidance on street crossings should be used in tandem with the City of Albuquerque *Bicycle and Trail Crossings Guide* (2022).

**Table 4. Summary of Traffic Control and Intersection Treatments at Major Street Crossings**

	Treatment	Level of Benefits	Ease of Implementation	Appropriateness and Benefit
Crossing Treatments	Traffic Signals, Pedestrian Hybrid Beacons, Rectangular Rapid-Flashing Beacons, Warning Signage and Crosswalk Striping	●	●	<b>Critical feature at major street crossings.</b> The specific crossing treatment recommendation depends on the traffic speed and volume of the major street and should follow the guidance from the City of Albuquerque <i>Bicycle and Trail Crossings Guide</i> (2022)
	Median Refuge Islands	●	●	<b>Critical feature at major street crossings.</b> Median refuge islands allow for allow people biking to complete the crossing movement in two stages, if needed.
Off-set Intersection Treatments	Bicycle Lane with Two-Stage Bicycle Turn Box	●	●	Can be paired with a street median at major street crossings when bike boulevards must follow a major street for short segments.
	Two-Way Separated Bike Lane or Sidepath Connection	●	●	Option for low stress travel when bike boulevards must follow a major street for short segments.
	Staggered Crossing with Raised Median	●	●	Option for enhancing crossing opportunities at major streets; allows for two-stage crossings.

High ● Medium ● Low ○

## Traffic Signals and Enhanced Crossings

**Definition:** Where no crossing treatment for an intersection of a bike boulevard and a major street is present, an evaluation is needed to determine if an enhanced crossing treatment should be installed and/or intersection design improvements to aid people biking to cross the collector or arterial street. All crossings of major streets should include some form of designated crossing.

**Application and Design Considerations:** Depending on the traffic volume, travel speeds, and number of lanes, a pedestrian hybrid beacon (PHB), or a rectangular rapid flashing beacon (RRFB), or traffic signals may be present to control the major street (see Figure 12). Refer to the *Bicycle and Trail Crossings Guide* for additional details on each crossing treatment types and for the preferred treatment based on street conditions. In general, a PHB should be at least 300 feet or one block from the nearest traffic signal.

Where traffic signals are present at bike boulevard crossings, it may be desirable to allow coordinated traffic signals to operate on half cycle lengths or to operate in “free” or uncoordinated mode during off-peak hours to reduce delays for people biking and provide frequent service.

In locations where a new crossing is being evaluated, it is appropriate to consider projected bicycle volumes instead of existing volumes when evaluating signal and pedestrian hybrid beacon warrants. The existing volumes may be too low to meet the requirements of a traffic signal warrant but the existing volumes are typically low because there is no existing safe crossing which leads to people biking avoiding the crossing location altogether.

### Enhanced Crossings Treatments on Bike Boulevards

A **pedestrian hybrid beacon (PHB)** is an overhead signal that is push-button activated to stop vehicles and allow a safe crossing. See Figure 12 for an example. PHBs are also known as a High-Intensity Activated Crosswalk Beacon (HAWK).

A **rectangular rapid flashing beacon (RRFB)** is a push-button activated beacon that alerts people driving to yield to people walking or biking. See photo below.



**Traffic signals** are car-oriented lights that indicate when vehicles are allowed to cross an intersection. They are marked with red, yellow, and green lights.

**Figure 12: Pedestrian Hybrid Beacon along Fair Heights Bike Boulevard**



Source: Google Maps

## Offset Intersection Treatments and Travel along Major Streets

In some cases, bike boulevards may not continue directly through an intersection, requiring people biking to make turns or travel for a brief distance on an arterial or collector street before continuing along the same street on the other side of the intersection. These “offset” or asymmetrical intersections require special consideration and treatments to provide a continuous, comfortable path for people biking. Without effective design treatments, offset intersections can become a barrier along the corridor, creating a less attractive bike boulevard.

The following treatments provide examples for improving offset intersections and supporting the needs of people biking of all ages and abilities. In most cases this will require a protected bike lane, off-street sidepath, or a staggered crossing with a raised median to create a high level of comfort while riding along the major street.

### *Bike Lane with Two-Stage Bicycle Turn Box*

**Definition:** Where roadway space is limited and bike lanes are the preferred treatment or only practical option, the addition of two-stage bicycle turn boxes may be used to create space for people biking to do the following:

- Wait for gaps in traffic at uncontrolled crossings outside of the path of moving traffic or people biking
- Actuate an activated beacon, pedestrian hybrid beacon, or traffic signal via passive detection or a curbside push button

**Application and Design Considerations:** Space for a two-stage bicycle turn box may be created by restricting parking or recessing the curb to place the two-stage bicycle turn box within the sidewalk buffer (see Figure 15).

**Figure 13: Example of a Two-Stage Bicycle Turn Box**





### ***Sidepath or Two-Way Separated Bike Lane Connection***

**Definition:** To connect bike boulevard segments across and along major streets, sidepaths and two-way separated bike lane may be considered for short distances on one side of the street (see Figure 16). Since bike boulevards should generally avoid traveling along major streets, this facility type should be used selectively. Where appropriate, sidepaths and separated bike lanes ensure a higher level of user comfort than typical on-street bike lanes and better support travel by people biking of all ages and abilities.

**Application and Design Considerations:** Where a sidepath or a two-way separated bike lane is provided, the street buffer between the street and bikeway should be made as wide as practical to:

- Improve comfort for people biking operating counter-flow to traffic
- Create queuing space for people biking
- Allow the construction of a protected intersection at the terminus of the bikeway

On-street parking should be eliminated where right-of-way is constrained or where sight lines would be limited with the preservation of parking. Consideration should be given to the use of green-colored pavement within the bikeway, and a bike crossing should be marked to improve visibility and help people biking navigate the facility.

Locating the sidepath or separated bike lane on one side allows for crossings to be concentrated to one location. Where it is determined that traffic control is necessary at the end of the bikeway entering the minor street, yield control is recommended. Where an activated beacon, PHB, or traffic signal is required to cross the street, detection may be passive or provided by a curbside push button.

***Figure 14: Example Two-Way Sidepath along Neighborhood Street***



### ***Staggered Crossing with Raised Median***

**Definition:** Where a center turn lane is present along the major street, a staggered crossing with a raised median may be provided to facilitate crossings by people walking and biking. The typical configuration of a staggered crossing requires a two-stage crossing action and has the benefit of forcing people walking and biking to turn slightly toward traffic before crossing.

**Application and Design Considerations:** For crossings of lower volume two-lane streets, a couplet of center bicycle-only left turn lanes may be used to facilitate an offset crossing along a bike boulevard (see ). Center-

left turn lanes are appropriate where there are sufficient gaps between vehicles to allow bicycles to enter the left turn lane.

To improve comfort and safety, a raised curb or other form of vertical separation between the bike lane and adjacent travel lane is strongly recommended. A striped buffer may also be considered; however, this treatment places people biking in the middle of the major street and should be limited to locations where major road vehicle speeds 30 mph or lower.

**Figure 15: Examples of Staggered Crossings with Raised Medians along Bike Boulevards in Albuquerque**







## 4) Traffic Calming Strategies (Speed Management)

Traffic calming strategies focus on reducing motor vehicle travel speeds and traffic volumes. This section summarizes techniques for reducing speed through horizontal and vertical deflection treatments, including their respective benefits, level of effort for implementation, and notes on the appropriateness of the treatments. Note that these elements are context-dependent and are most effective when paired with other bike boulevard treatments.

**Table 5: Summary of Traffic Calming Treatments**

	Treatment	Level of Benefits	Ease of Implementation	Appropriateness
Horizontal deflection treatments	One-Lane Pinch-Points	●	◐	Appropriate in mid-block locations on local roads and not adjacent to major streets.
	Chicanes	◐	◐	Appropriate in mid-block locations on long blocks and along street segments with few stop control devices.
	Neighborhood Mini Traffic Circles	●	◐	Appropriate at the intersection of two local streets in periodic locations along the bike boulevard. Desired spacing is every two blocks.
Vertical deflection treatments	Speed Humps	◐	◐	Appropriate at periodic locations throughout a bike boulevard (e.g., every 200-400 feet), depending on existing travel speeds and target design speed; should not be placed on blocks immediately approaching a major street.
	Raised Crosswalks and Speed Tables	●	●	Appropriate near neighborhood destinations with high foot traffic or at intersections of bike boulevards with major streets where the speed limit is 30 MPH or less.
	Raised Intersection	●	●	Appropriate at intersections adjacent to destinations with high foot traffic.
	Speed Cushions	●	◐	Appropriate at periodic locations throughout a bike boulevard (e.g., every 200-400 feet) depending on existing travel speeds and target design speed; speed cushions should not be placed on blocks immediately adjacent to a major street.

High ● Medium ◐ Low ○

Traffic calming strategies are particularly important when the drivable or operating width of the road is greater than 20 feet, assuming on-street parking is striped and the drivable width can be reduced by 16 to 20 feet. Table 6 outlines the need for design interventions based on the curb-to-curb width of the street.

**Table 6: Curb-to-Curb Width and Potential Design Interventions**

Curb-to-curb Width	Design Interventions
<40 feet	Sense of enclosure can be created through striping on-street parking. Mini-traffic circles should be considered to further
40 to 46 feet	Street is too wide for striped parking to create a sense of enclosure and too narrow for on-street bike lanes. Additional design interventions desired.
>46 feet	Street is likely too wide to achieve modest motor vehicle travel speeds through striped parking and horizontal deflection techniques. Use of bike lanes or an alternative route should be considered.

## Horizontal Deflection Treatments

Horizontal deflection treatments require people driving to slow down to adjust to a visually narrower roadway or accommodate a shifting or curving travel lane. Horizontal deflections may require more upfront planning than vertical deflections, but they offer more flexibility in managing vehicle speed and volume. The main strategies for managing automobile speed include:

- One-lane pinch points
- Chicanes
- Neighborhood mini traffic circles

### Pinch Points

**Definition:** Pinch-points require people driving to yield as they approach this treatment (see Figure 17). Treatments to create pinch-points include curb extensions, chokers, and diverters, which narrow a roadway to one travel lane.

**Application and Design Considerations:** This treatment may be most appropriate on two-way streets with more than 18 feet of operating width, streets with low parking demand, or streets with parking on one side.

Pinch-points may benefit from the addition of edge line striping and a ROAD NARROWS sign (W5-1) approaching the location where visibility to the pinch point is limited (see Figure 16). The frequency of pinch points may be one every 600 to 800 feet and should be evaluated based on traffic analyses. For more information on techniques that create pinch-points, see the City of Albuquerque [Neighborhood Traffic Management Program](#).

**Figure 16: Road Narrows Plaque**



**Figure 17: Example of One Lane Pinch Point**



## Chicanes

**Definition:** Chicanes are a series of curb extensions, pinch-points, parking bays, or landscaping features that alternate from one side of the road to the other. Chicanes should be designed to reduce vehicle speeds by requiring people driving to shift laterally through narrowed travel lanes (see Figure 18). This can be accomplished by shifting the path of travel from one-half of the street to one full lane width.

**Application and Design Considerations:** Chicanes require sufficient width within the travel lane and careful consideration of parking availability. Areas where parking is restricted should be clearly identified with signs, and in some cases supplemented with markings or physical features to prevent parking in places that could create conflicts. The addition of curb extensions or islands may help prevent parking near the chicane. Where space permits, chicanes should be placed approximately every 200 to 400 feet.

It may be desirable to add a center line and edge line markings to guide users through a chicane and to encourage people driving to stay in their lane. For more information on chicanes, see the City of Albuquerque [Neighborhood Traffic Management Program](#).

**Figure 18: Example of Chicane Use as Traffic Calming Treatment**





### ***Neighborhood Mini Traffic Circles***

**Definition:** Neighborhood mini traffic circles may be used to slow vehicle approach speeds to intersections with uncontrolled or yield-controlled approaches (see Figure 19). In this configuration, the mini traffic circle is intended to prevent speeding and cut-through motor vehicle traffic while still allowing people biking to continue through minor local street intersections without having to come to a complete stop. It is also acceptable to allow stop control at mini circles in either two-way stop or all-way stop control configurations.

**Application and Design Considerations:** Mini traffic circles vary in size and have different design criteria than roundabouts. The circle should be designed to slow passenger vehicles while still allowing occasional access for larger emergency vehicles. The frequency of these mini traffic circles should be at every quarter mile or less, with more frequent spacing (e.g., every other intersection) preferred.

To improve safety for people bicycling, mini traffic circles and approach streets should have clear sight lines and should be clearly signed and marked to guide navigation around the circle. Sufficient lighting should be provided to ensure the mini traffic circle is visible to reduce crash risk for people biking who could potentially strike the street element at night. Reflective markers can also be placed along the edges of the traffic circle to increase their visibility in low light and nighttime conditions. For more information on traffic circles, see the City of Albuquerque [Neighborhood Traffic Management Program](#).

**Figure 19: Mini Traffic Circle along Silver Ave Bike Boulevard**



## Vertical Deflection Treatments

Vertical deflections, or vertical speed control measures, are wide, slight pavement elevations that result in slower driving speeds. The primary geometric characteristics of vertical deflections are the height, length, width, and approach and departure ramp slopes of the device. Well-designed vertical deflections allow vehicles and people biking to proceed over the device at the intended speed with minimal discomfort. Vertical deflections should be indicated with pavement markings so they are visible to both people driving and people biking. Where visibility is a concern, warning signs should be considered. Vertical deflection treatments include:

- Speed humps, raised crosswalks and speed tables
- Raised intersection
- Speed cushions

See the City of Albuquerque [Neighborhood Traffic Management Program](#) for additional guidance on vertical deflection techniques.

### *Speed Humps, Raised Crosswalks and Speed Tables*

Speed humps, raised crosswalks, and speed tables can be effective devices to reduce speeds along a bike boulevard. To have the intended impact, they should be placed strategically along the route. For example, a speed table combined with a pedestrian crosswalk can be an effective gateway treatment at the entrance to a bike boulevard to indicate to a person driving a motor vehicle that they are entering an area where lower speeds are expected (see Figure 20). Raised crosswalks are also an effective strategy to slow the turning speeds of motor vehicles entering a roadway. Where speed humps are used to control speeds, they are most effective when they are placed periodically along the route (e.g., every 200 to 400 feet) to reinforce speed control.

Stormwater flow should be accommodated when considering vertical deflection treatments. To minimize cost during retrofit installations, the raised device may have a side taper to the edge of the street to allow stormwater to continue to flow along existing gutters.

**Figure 20: Example of Raised Crosswalk and Raised Intersection**





### ***Raised Intersection***

Similar to raised crosswalks, raised intersections are constructed to elevate the entire intersection to sidewalk level and are designed to provide approach ramps that are similar to raised crosswalks. This strategy may be appropriate at intersection locations where the following conditions exist:

- Bike boulevards turn to a cross street
- The intersection is offset
- People biking may need to make a diagonal crossing to access a park, school, or other destination
- Locations where trucks and other large vehicles must routinely turn
- Locations where priority for people walking is desired
- Intersections with higher volume streets or signalized locations where speed humps, speed bumps, or raised crosswalks are not appropriate

Raised intersections require careful consideration of pedestrian accessibility requirements. At a minimum, the provision of a continuous detectable warning surface will be required at all locations where a flush pedestrian route intersects the street edge.

### ***Speed Cushions***

Speed cushions are similar to speed tables but are designed with cutouts to allow wider wheelbase vehicles and people biking to bypass the raised portion of the device. They may be built with a variety of approach ramp profiles. These devices are typically placed in pairs and centered in a travel lane to prevent people driving from bypassing them. The frequency of speed cushions should be every 200 to 400 feet. See Figure 21 for an example.

***Figure 21: Example of Speed Cushion***





## 5) Traffic Diversion Strategies (Volume Management)

Traffic diversion treatments are volume management tools used to reduce through-traffic on bike boulevards. They may consist of “soft” treatments, which rely on compliant behavior (e.g., posting turn restrictions) or hardscape treatments, which force compliant behavior through geometric design. Diversion strategies will typically maintain local motor vehicle access to residences and businesses along the bike boulevard while diverting people driving on through trips to other streets.

A summary of these elements, as well as their specific treatments, their level of benefits, level of effort of implementation, and notes on the appropriateness of the treatments, are contained in Table 7. Note that these bike boulevard elements are context-dependent, and they are optimal when paired with other bike boulevard treatments. Designs can be modified as needed to allow emergency vehicle access by providing cut-through slots to match emergency vehicle wheelbases or by providing lowered curb heights so emergency vehicles can drive over the elements in an emergency.

**Table 7. Summary of Traffic Diversion Treatments**

Treatment	Level of Benefits	Effort of Implementation	Benefits and Appropriateness
<b>Regulatory Signs</b>	○	○	Signage alone has minimal benefit and is more effective when implemented in conjunction with infrastructure changes.
<b>Major Street Medians</b>	●	●	Medians at intersections of local streets along a bike boulevard and an arterial or collector significantly limits the amount of cut through motor vehicle traffic along the bike boulevard.
<b>Diagonal Diverters</b>	●	●	Diverters are appropriate on bike boulevards with high vehicular volumes as they entirely restrict through access for people driving. Significant outreach to residents is needed.
<b>Forced Turns and Partial Closures</b>	●	◐	Forced turns and partial closures are appropriate at bike boulevard intersections with local and major streets and can reduce the amount of cut through motor vehicle traffic along the bike boulevard.

High ● Medium ◐ Low ○

### Major Street Medians

**Definition:** Raised medians at major street crossings can be constructed to restrict motor vehicle access on local streets while allowing through movements for people bicycling and walking (see Figure 22). Major street medians can be highly beneficial on bike boulevards by limiting through traffic for motor vehicles.

A key consideration is whether it is desired to provide people walking and biking a single-stage or two-stage crossing. A single-stage crossing is when people walking or biking cross the entirety of the street in one stage. A two-stage crossing is when the people walking or biking are given a signal or expected to cross one direction of motor vehicle traffic to the median before waiting for another signal or break in traffic to cross the other direction of traffic in a second stage. In all locations, the median should extend outside the limits of the intersection to prevent people from driving around them.

**Application and Design Considerations:** A refuge median is desirable to allow a two-stage crossing when used at controlled and uncontrolled crossings of major streets with multiple travel lanes in each direction. The median should be a minimum of 6 feet wide to allow people biking to take refuge in the median without

sticking out into active motor vehicle traffic lanes. A 10-foot or wider median is preferred to accommodate larger groups of people biking as well as people biking with trailers or on larger bikes.

The primary design consideration in a median or hardened centerline opening is the alignment of approaching people driving to the median. Where the median opening is located in the perceived line of travel for a person driving a motor vehicle, the median opening should be designed to discourage people driving from attempting to enter the bicycle crossing.

A secondary design consideration is whether it is desired to provide a median opening space for people biking to pass through the median that is separate from people walking. This can be accomplished by providing separate median openings for each direction of bicycle travel and limiting the opening to a width between 5 and 6.5 feet. At locations where people biking can cross the roadway in a single stage or where there are traffic signals, the median may be a hardened centerline or as narrow as two feet. Median openings can also be designed to allow emergency vehicles to cross them by straddling the island and passing over it while also discouraging people driving from crossing them.

Uncontrolled crossings should be evaluated to confirm whether other treatments may be necessary, including providing active traffic control devices such as PHBs, RRFBs, or traffic signals to facilitate the crossing. For more information, see the City of Albuquerque *Bicycle and Trail Crossings Guide*.

**Figure 22: Raised Median along Silver Ave Bike Boulevard**



## Diagonal Diverters

**Definition:** Diagonal diverters prevent through motor vehicle movements in all directions at street intersections, requiring people driving to turn left or right while allowing people biking to continue through the intersection at smaller cut-through locations at the ends of the diverter (Figure 23). Diagonal diverters are typically installed at four-way intersections of local streets and require a physical barrier to restrict motor vehicle access and force people driving to turn off the bike boulevard. Diagonal diverters may be constructed with curb extensions with or without drainage channels at the curb, bollards, or a guardrail.

**Application and Design Considerations:** Like a median or hardened centerline used for traffic diversion, the diagonal diverter must allow people biking to pass through. This can be accomplished by providing a median opening between 5 and 6.5 feet in width for each direction of bicycle travel; a refuge space is not required because of the lower volume and lower speed local street context. A separate accessible pedestrian route should be provided. Diagonal diverters may be placed along a bike boulevard at locations



where traffic volumes exceed acceptable vehicular volumes and where redundant residential access exists. For more information, see the City of Albuquerque [Neighborhood Traffic Management Program](#).

## Forced Turns and Partial Closures

**Definition:** The ends of a two-way street can be converted to one-way motor vehicle traffic by installing an island or a curb extension to force people driving to turn. This design also restricts people driving from turning onto or continuing along the bike boulevard. A type of forced turn diversion strategy could involve a “toucan crossing” in which both people biking and people walking (i.e., “two can”) cross. This type of crossing requires traffic diversion to restrict left turns and through traffic from the minor street. A simplified version of a toucan crossing is a partial or half closure, which prohibits vehicular traffic from entering a street. This partial closure includes openings for people bicycling or walking to access the street and continue traveling.

**Application and Design Considerations:** This design may be considered at the intersection of two local streets or at major street crossings if it is not desirable to install a controlled crossing treatment. The geometry of a forced turn or partial closure requires people driving to turn right from the minor street while allowing people biking to proceed. Forced turns and partial closure treatments should minimize the extent to which people biking must pass through a constrained space between curbs or vertical elements.

**Figure 23: Example of Diagonal Diverter and Partial Street Closure with Bicycle Cut Through along Local Street**



## Regulatory Signage

Motor vehicle traffic may be restricted along bike boulevards through the use of mandatory turn signs (R3-1 or R3-2 from the MUTCD), as shown in Figure 24. These should be supplemented by right and/or left turn pavement marking arrows to emphasize the restriction. Signs and pavement markings alone may not be effective at discouraging motor vehicle access. All signs should include an EXCEPT BICYCLES plaque to allow people biking to have access to the bike boulevard. For more information on signed turn restrictions, see the City of Albuquerque [Neighborhood Traffic Management Program](#).

**Figure 24: Examples of Regulatory Signage**



# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN

## APPENDIX F: PRIORITY PROJECTS TABLES





List of Tables

Table 1: Priority Levels for All Projects Proposed in 2024 Plan..... 3

Table 2: Priority Levels for Proposed Paved Multi-use Trail Crossings ..... 19

Table 3: Priority Levels for Proposed Paved Multi-use Trails ..... 20

Table 4: Priority Levels for Proposed Sidepaths..... 22

Table 5: Priority Levels for Proposed Bike Boulevards..... 24

Table 6: Proposed Projects in 2024 Plan in Alphabetical Order ..... 28

Table 7: Implementation Strategies by Project..... 44

Notes

Cost Estimates Notes and Assumptions..... 63



**Table 1: Priority Levels for All Projects Proposed in 2024 Plan**

Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Very High	5th Street / 6th Street	Coal Avenue	I-40 Frontage Road EB	2.9	Buffered Bike Lane, Bike Lane	Plausible Near-Term	\$7,980,000	\$14,480,000
Very High	Academy Road	Wyoming Boulevard	Tramway Boulevard	4.3	Sidepath	Long-Term	\$36,930,000	
Very High	Alvarado Drive	Eastern Avenue	I-40 Trail Bridge	2.2	Bike Boulevard, Bike Lane	Long-Term	\$3,250,000	\$5,480,000
Very High	Alvarado Drive / Palomas Drive	I-40 Trail Bridge	Comanche Road	1.4	Bike Boulevard	Long-Term	\$3,040,000	\$4,280,000
Very High	Avenida Cesar Chavez	Broadway Boulevard	Yale Boulevard	1.1	Separated Bike Lane	Plausible Near-Term	\$2,100,000	\$4,940,000
Very High	Bear Canyon Arroyo Trail	Wyoming Boulevard	Morris Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,350,000	
Very High	Broadway Boulevard	Coal Avenue	Lomas Boulevard	0.9	Buffered Bike Lane	Plausible Near-Term	\$2,060,000	\$4,300,000
Very High	Buena Vista Drive	Gibson Boulevard	Central Avenue	1.6	Bike Boulevard	Long-Term	\$4,420,000	\$5,790,000
Very High	Candelaria Road	San Isidro Street	I-40 Frontage Road SB	2.4	Separated Bike Lane	Plausible Near-Term	\$3,300,000	\$9,340,000
Very High	Chelwood Park Boulevard	Copper Avenue	Candelaria Road	2.6	Bike Lane	Plausible Near-Term	\$1,520,000	\$5,580,000
Very High	Claremont Avenue	Richmond Drive	Juan Tabo Boulevard / Paseo de las Montañas Trail	6.0	Bike Boulevard, Bike Lane	Long-Term	\$9,310,000	\$14,950,000
Very High	Comanche Road	San Mateo Boulevard	East of Tramway Boulevard	5.5	Separated Bike Lane, Enhanced Bike Route, Bike Lane	Plausible Near-Term	\$6,870,000	\$20,160,000
Very High	Constitution Avenue	Pennsylvania Street	Indian School Road	3.4	Bike Lane	Plausible Near-Term	\$2,830,000	\$9,460,000
Very High	Constitution Avenue	Vassar Drive	Mesilla Street	1.6	Bike Lane, Buffered Bike Lane, Buffered Bike Lane One Direction	Plausible Near-Term	\$2,080,000	\$5,150,000
Very High	Crest Avenue / Eastern Avenue	Washington Street	Louisiana Boulevard	1.5	Bike Boulevard	Long-Term	\$3,090,000	\$4,440,000
Very High	Edith Bouelvard	Gibson Boulevard	Menaul Boulevard	3.4	Bike Boulevard, Bike Lane	Plausible Near-Term	\$5,860,000	\$10,610,000
Very High	Eubank Boulevard	Montgomery Boulevard	San Francisco Road	5.3	Separated Bike Lane	Long-Term	\$12,850,000	\$19,620,000
Very High	Indian School Road	Broadway Boulevard	San Pedro Drive	3.8	Separated Bike Lane	Plausible Near-Term	\$5,280,000	\$14,930,000
Very High	Las Lomas Road / Campus Boulevard	University Boulevard	Monte Vista Boulevard	1.0	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term	\$1,290,000	\$3,010,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Very High	Lead Avenue / Coal Avenue	Broadway Boulevard	Elm Street	0.8	Separated Bike Lane	Plausible Near-Term	\$1,900,000	\$2,420,000
Very High	Louisiana Boulevard	Gibson Boulevard	Central Avenue	1.2	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term	\$2,630,000	\$5,740,000
Very High	Marquette Avenue / Roma Avenue	Girard Boulevard	San Pedro Drive	2.3	Bike Boulevard	Long-Term	\$4,340,000	\$6,390,000
Very High	Parsifal Street / Moon Street	Paseo de las Montañas Trail	Academy Road	3.6	Bike Boulevard, Bike Lane, Sidepath	Long-Term	\$6,490,000	\$10,150,000
Very High	Paseo de las Montañas Trail / Embudo Recreation Trail	Hendola Drive	Marie Park Drive	0.0	Paved Multi-Use Trail Crossing	Long-Term	\$7,910,000	
Very High	Paseo del Nordeste Trail	Carlisle Boulevard	Pennsylvania Street	0.0	Paved Multi-Use Trail Crossing	Long-Term	\$5,120,000	
Very High	Paseo del Norte	I-25 Frontage Road NB	Eubank Boulevard	4.6	Sidepath	Long-Term	N/A	
Very High	Prospect Avenue / Cutler Avenue	Morningside Drive	San Pedro Drive	1.4	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,530,000	\$3,200,000
Very High	San Pablo Street / Charleston Street / Mesilla Street	Southern Avenue	Constitution Avenue	2.3	Bike Boulevard	Long-Term	\$2,720,000	\$4,730,000
Very High	San Pedro Drive	Ridgecrest Drive	Osuna Road	6.1	Buffered Bike Lane	Plausible Near-Term	\$7,340,000	\$19,270,000
Very High	Silver Avenue	2nd Street	University Boulevard	1.1	Bike Boulevard, Separated Two-Way Cycle Track, Sidepath	Plausible Near-Term	\$3,400,000	\$4,760,000
Very High	Stanford Drive / Columbia Drive	Gibson Boulevard	Central Avenue	1.6	Bike Boulevard	Plausible Near-Term	\$1,670,000	\$3,110,000
Very High	Summer Avenue / Mackland Avenue / Marble Avenue	Stanford Drive / North Diversion Channel Trail	Louisiana Boulevard / I-40 Trail Bridge	3.4	Bike Boulevard, Bike Lane	Long-Term	\$5,590,000	\$8,660,000
Very High	Tower Road	106th Street	Bridge Boulevard	2.9	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term	\$2,760,000	\$8,210,000
Very High	Trumbull Avenue	Valverde Drive	Eubank Boulevard	3.7	Bike Boulevard, Sidepath	Long-Term	\$5,390,000	\$8,580,000
Very High	University Boulevard	South of Gibson Boulevard	Lomas Boulevard	2.6	Separated Bike Lane, Bike Boulevard	Plausible Near-Term	\$4,730,000	\$10,940,000
Very High	Washington Street / Montclair Drive	Menaul Boulevard	Montgomery Boulevard	1.7	Bike Boulevard, Sidepath	Long-Term	\$2,690,000	\$4,020,000
Very High	Washington Street / Valverde Drive / Morningside Drive	Gibson Boulevard	Marquette Avenue	2.1	Bike Boulevard	Plausible Near-Term	\$3,200,000	\$5,020,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Very High	Wellesley Drive / Tulane Drive / Lafayette Drive	Gibson Boulevard	Indian School Road	2.9	Bike Boulevard, Sidepath	Long-Term	\$4,940,000	\$7,470,000
High	10th Street	Santa Fe Avenue	Marquette Avenue	0.9	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,010,000	\$1,970,000
High	2nd Street / 3rd Street	Marble Avenue	Candelaria Road	2.4	Buffered Bike Lane	Plausible Near-Term	\$2,070,000	\$6,560,000
High	57th Street / 58th Street / 59th Street	Gonzales Road	Atrisco Drive / I-40 Trail	2.6	Bike Boulevard, Sidepath	Plausible Near-Term	\$2,180,000	\$4,420,000
High	57th Street / Atrisco Drive	Ouray Road	Sequoia Road	0.6	Buffered Bike Lane	Plausible Near-Term	\$730,000	\$2,340,000
High	86th Street	98th Street	Central Avenue	1.9	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term	\$1,300,000	\$4,560,000
High	94th Street	Benavides Road	Volcano Road	1.8	Bike Boulevard	Plausible Near-Term	\$2,210,000	\$3,830,000
High	98th Street / Snow Vista Boulevard	North of Rio Clara Avenue	De Vargas Road	1.4	Sidepath	Long-Term	\$2,220,000	
High	Academy Road	Seagull Street	Wyoming Boulevard	1.7	Separated Bike Lane	Long-Term	\$8,450,000	\$12,810,000
High	Airport Drive	Central Avenue	Los Volcanes Road	0.8	Buffered Bike Lane	Plausible Near-Term	\$590,000	\$2,080,000
High	Alameda Boulevard	Balloon Museum Drive	Ventura Street	5.8	Sidepath	Long-Term	\$11,360,000	
High	Alameda Boulevard / NM 528	Lorretta Drive	Westside Boulevard	3.7	Sidepath	Long-Term	N/A	
High	Alameda Drain Trail	Central Avenue	Rio Grande Boulevard / I-40	0.9	Paved Multi-Use Trail	Long-Term	\$1,240,000	
High	Alameda Drain Trail	Matthew Avenue	4th Street	0.0	Paved Multi-Use Trail Crossing	Long-Term	\$1,610,000	
High	Alamogordo Drive / Vista Grande Drive	Bridges Avenue	Saint Joseph's Drive	1.4	Enhanced Bike Route	Plausible Near-Term	\$340,000	\$1,580,000
High	Amole Arroyo Trail / Snow Vista Trail / West Gate Trail	Blake Road	Tower Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,930,000	
High	Apache Avenue / Utah Street	Española Street	Claremont Avenue	1.0	Bike Boulevard	Long-Term	\$1,790,000	\$2,650,000
High	Atrisco Drive	Central Avenue	I-40 Trail Bridge	1.7	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$990,000	\$2,850,000
High	Atrisco Riverside Drain	Bridge Boulevard	Central Avenue	1.7	Paved Multi-Use Trail	Long-Term	\$2,390,000	
High	Avenida Cesar Chavez	Walter Street	Langham Street	0.3	Separated Bike Lane	Long-Term	\$1,200,000	\$1,200,000
High	Avenida Cesar Chavez Railroad Overpass	3rd Street	Broadway Boulevard	0.4	Sidepath	Long-Term	N/A	



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Avenida Dolores Huerta	La Vega Drive	Paseo del Bosque Trail	0.4	Sidepath	Long-Term	N/A	
High	Barcelona Road	Coors Boulevard	Isleta Boulevard	1.1	Bike Lane	Long-Term	N/A	
High	Barstow Street	Harper Road	Signal Road	1.8	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$2,010,000	\$5,960,000
High	Bermuda Drive / Chelwood Road	Candelaria Road	Manitoba Drive	1.8	Bike Boulevard	Plausible Near-Term	\$2,030,000	\$3,590,000
High	Blake Road / De Anza Drive	98th Street / 86th Street	Unser Boulevard	1.3	Buffered Bike Lane	Plausible Near-Term	\$1,410,000	\$3,470,000
High	Bluewater Road	98th Street	Camino Azul / Coors Boulevard	2.0	Buffered Bike Lane	Plausible Near-Term	\$1,330,000	\$5,030,000
High	Bluewater Road / La Bajada Road	Coors Boulevard	Atrisco Drive	1.2	Bike Boulevard, Sidepath	Plausible Near-Term	\$1,120,000	\$2,070,000
High	Brentwood Hills Boulevard / Marie Park Drive	Martha Street / Embudo Trail	Eastridge Drive / Tramway Boulevard Crossing	1.8	Bike Boulevard	Long-Term	\$2,360,000	\$3,980,000
High	Calabacillas Arroyo Trail	Universe Boulevard	Eagle Ranch Road	4.4	Paved Multi-Use Trail	Long-Term	\$6,230,000	
High	Camino del Sol / Kielich Avenue / Malaguena Lane	Spain Road	Lowell Street	2.9	Bike Boulevard, Bike Lane	Plausible Near-Term	\$3,810,000	\$7,410,000
High	Central Avenue	90th Street	Unser Transit Center	2.9	Sidepath	Long-Term	\$4,970,000	
High	Chico Road	Utah Street	Shirley Street / I-40 Trail	1.6	Bike Boulevard	Long-Term	\$2,080,000	\$3,450,000
High	Cloudview Avenue	Chelwood Park Boulevard	Lomas Verdes Avenue / Panorama Place	0.5	Bike Lane	Plausible Near-Term	\$210,000	\$1,230,000
High	Coal Avenue	Elm Street	Oak Street	0.1	Separated Bike Lane	Long-Term	\$1,090,000	\$1,090,000
High	Cochiti Road / Shirley Street	Morris Street / Elizabeth Street	Chico Road	1.0	Bike Boulevard	Long-Term	\$2,840,000	\$3,720,000
High	Coors Boulevard	Blake Road (LRBS)	Bridge Boulevard (LRBS)	2.3	Buffered Bike Lane	Long-Term	N/A	
High	Copper Avenue	Wyoming Boulevard	Eubank Boulevard	1.0	Bike Lane	Plausible Near-Term	\$970,000	\$2,900,000
High	Copper Avenue	Tomasita Street / I-40 Trail Bridge	Copper Trailhead	2.3	Buffered Bike Lane, Bike Boulevard, Enhanced Bike Route	Plausible Near-Term	\$1,440,000	\$3,990,000
High	Dellwood Road / Aztec Road	Pennsylvania Street	Parsifal Street	1.3	Bike Boulevard	Long-Term	\$2,250,000	\$3,410,000
High	Diversion Channel Trail UNM Connection	Tucker Avenue	Yale Boulevard	0.2	Paved Multi-Use Trail	Long-Term	\$250,000	





Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Doctor Martin Luther King Junior Avenue	Arno Street	Oak Street	0.4	Separated Bike Lane	Plausible Near-Term	\$1,460,000	\$1,740,000
High	Domingo Baca Trail	San Pedro Drive	Ventura Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,790,000	
High	Dorado Place / Wenonah Avenue	Wenonah Avenue	Central Avenue	0.3	Buffered Bike Lane, Bike Boulevard	Plausible Near-Term	\$440,000	\$910,000
High	Garfield Avenue	Buena Vista Drive	Morningside Drive	1.4	Bike Boulevard	Plausible Near-Term	\$1,400,000	\$2,630,000
High	Gibson Boulevard	Broadway Boulevard	I-25 NB Frontage Road	0.8	Sidepath, Separated Bike Lane	Plausible Near-Term	N/A	
High	Girard Boulevard (Gaps)	Central Avenue	Indian School Road	0.2	Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$670,000	\$1,100,000
High	Gonzales Road	Coors Boulevard	Old Coors Drive	0.9	Bike Boulevard	Plausible Near-Term	\$1,760,000	\$2,570,000
High	Hannett Avenue / Aspen Avenue / Haines Avenue	Stanford Drive	Washington Street	2.6	Bike Boulevard	Long-Term	\$4,070,000	\$6,380,000
High	Indian School Road	West of Wyoming Boulevard	Juan Tabo Boulevard	2.1	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$2,730,000	\$7,420,000
High	Irving Boulevard	Unser Boulevard	Golf Course Road	4.5	Sidepath	Long-Term	\$7,440,000	
High	Isleta Drain	Central Avenue	Rio Bravo Boulevard	4.3	Paved Multi-Use Trail	Long-Term	N/A	
High	Jewett Drive / Michael Hughes Drive / Durant Avenue	Tramway Boulevard	Monte Largo Drive / Lomas Blvd	0.9	Enhanced Bike Route	Plausible Near-Term	\$800,000	\$1,600,000
High	Ladera Drive	Arroyo Vista Boulevard	Ouray Road	2.5	Separated Bike Lane	Long-Term	\$10,860,000	\$17,210,000
High	Lagrima de Oro Road	Dona Marguerita Avenue	Morris Street	0.8	Bike Boulevard	Plausible Near-Term	\$1,590,000	\$2,320,000
High	Lomas Boulevard	6th Street	BNSF Rail Corridor	0.4	Sidepath	Long-Term	\$2,300,000	
High	Louisiana Boulevard	Burlison Drive	Modesto Avenue	2.5	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term	\$2,590,000	\$8,020,000
High	Manitoba Drive	Juan Tabo Boulevard	Tramway Ridge Drive	1.1	Bike Boulevard, Sidepath	Plausible Near-Term	\$1,620,000	\$2,470,000
High	Marble Avenue / 1st Street	6th Street	1st Street / Lomas Boulevard	0.5	Bike Boulevard	Plausible Near-Term	\$1,980,000	\$2,390,000
High	Mariposa Diversion Trail	Unser Boulevard	Kachina Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,640,000	
High	Marquette Avenue	14th Street	6th Street	0.5	Bike Boulevard	Plausible Near-Term	\$850,000	\$1,320,000
High	Marquette Avenue / Roma Avenue	2nd Street	Edith Boulevard	0.5	Bike Boulevard, Sidepath	Plausible Near-Term	\$770,000	\$1,090,000
High	McLeod Road	Jefferson Street	San Pedro Drive	0.9	Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$1,070,000	\$3,090,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Montaño Road	Unser Boulevard	Winter Haven Road	2.0	Separated Bike Lane	Long-Term	\$9,220,000	\$14,290,000
High	Monte Vista Boulevard	Central Avenue	Lomas Boulevard	0.7	Buffered Bike Lane	Plausible Near-Term	\$1,140,000	\$2,470,000
High	Moon Street	Susan Avenue / Southern Boulevard	Copper Avenue	0.9	Bike Boulevard	Plausible Near-Term	\$1,020,000	\$1,820,000
High	Morris Street	Candelaria Road	Montgomery Boulevard	1.0	Bike Lane	Plausible Near-Term	\$1,270,000	\$3,240,000
High	Morris Street	Tomasita Street	Constitution Avenue	0.8	Bike Lane, Bike Boulevard	Plausible Near-Term	\$630,000	\$1,910,000
High	Mountain Road	Tomasita Street	Chelwood Park Boulevard	0.9	Bike Boulevard, Bike Lane	Long-Term	\$1,450,000	\$2,450,000
High	Mountain Road	Broadway Boulevard	Edith Boulevard	0.2	Bike Lane	Plausible Near-Term	\$650,000	\$960,000
High	Natalie Avenue/Ponderosa Avenue	Paseo del Nordeste/San Mateo Boulevard	Pennsylvania Street	1.7	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,390,000	\$2,990,000
High	Osuna Road	West of San Mateo Boulevard	East of San Mateo Boulevard	0.1	Separated Bike Lane	Long-Term	\$580,000	\$580,000
High	Ouray Road	57th Street	Coors Boulevard NB Frontage Road	0.2	Separated Bike Lane	Long-Term	\$1,490,000	\$1,490,000
High	Ouray Road / Bob McCannon Parkway	Unser Boulevard	Alamogordo Drive	1.9	Buffered Bike Lane	Plausible Near-Term	\$1,890,000	\$5,450,000
High	Panmunjon Road / Hollywood Avenue / Marble Avenue	Mountain Road	14th Street	1.2	Bike Boulevard	Long-Term	\$1,900,000	\$2,950,000
High	Paseo del Norte	Universe Boulevard	Eagle Ranch Road	4.9	Sidepath	Long-Term	\$8,690,000	
High	Pennsylvania Street	South of Comanche Road	Montgomery Boulevard	0.7	Buffered Bike Lane	Plausible Near-Term	\$840,000	\$2,090,000
High	Pennsylvania Street	Marble Avenue	Menaul Boulevard	1.5	Buffered Bike Lane, Bike Lane, Separated Bike Lane	Plausible Near-Term	\$2,080,000	\$4,990,000
High	Pino Arroyo Trail / Quintessence Trail	San Pedro Drive	Toulon Drive	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$4,110,000	
High	Randolph Road / Alamo Avenue	University Boulevard	Girard Boulevard	1.1	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term	\$990,000	\$2,840,000
High	Sage Road / De Vargas Road	Del Mastro Drive	Corel Drive/Unser Boulevard	1.4	Separated Bike Lane	Plausible Near-Term	\$1,630,000	\$5,180,000
High	San Francisco Road / Coronado Avenue	San Pedro Drive	Eubank Boulevard	2.7	Bike Lane, Bike Boulevard, Buffered Bike Lane	Plausible Near-Term	\$2,430,000	\$6,630,000
High	San Isidro Street / Guadalupe Trail	Indian School Road	Grecian Avenue	2.8	Bike Boulevard	Plausible Near-Term	\$3,830,000	\$6,290,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Santa Clara Avenue	Yale Boulevard	Wellesley Drive	0.8	Bike Boulevard, Bike Lane	Plausible Near-Term	\$670,000	\$1,690,000
High	Santa Fe Avenue	12th Street / Bosque Trail Access	2nd Street	0.6	Bike Boulevard	Plausible Near-Term	\$1,320,000	\$1,870,000
High	Seagull Street	Osuna Road	Academy Road	0.2	Buffered Bike Lane	Plausible Near-Term	\$650,000	\$990,000
High	Sequoia Road	Ladera Drive	Vista Grande Drive	0.7	Separated Bike Lane, Bike Lane, Enhanced Bike Route	Long-Term	\$950,000	\$2,250,000
High	South Diversion Channel Trail	Rio Bravo Boulevard	Basehart	3.6	Paved Multi-Use Trail	Long-Term	\$5,070,000	
High	Spain Road / Knight Road	Academy Road	Tramway Boulevard	3.1	Buffered Bike Lane, Separated Bike Lane, Bike Lane	Plausible Near-Term	\$3,080,000	\$9,700,000
High	Tom Bolack Park Trail	San Pedro Drive	Paseo de las Montañas Trail	0.3	Paved Multi-Use Trail	Long-Term	\$430,000	
High	Tomasita Street / Martha Street	I-40 Trail Bridge	Gretta Street / Prospect Avenue	2.0	Bike Boulevard	Plausible Near-Term	\$1,820,000	\$3,560,000
High	Tony Sanchez Drive / Singing Arrow Avenue	Innovation Parkway	East of Dorado Place	1.6	Bike Boulevard, Bike Lane, Buffered Bike Lane	Long-Term	\$2,000,000	\$4,300,000
High	UNM South Campus Trail	Gibson Boulevard	Buena Vista Drive	0.7	Paved Multi-Use Trail	Long-Term	\$1,060,000	
High	Unser Boulevard	Montaño Road	Paradise Boulevard	6.6	Sidepath	Long-Term	\$10,790,000	
High	Uptown Boulevard	San Pedro Drive	Louisiana Boulevard	0.5	Buffered Bike Lane	Plausible Near-Term	\$950,000	\$2,300,000
High	Uptown Loop / Americas Parkway	Loop	Loop	1.3	Buffered Bike Lane	Plausible Near-Term	\$2,640,000	\$5,930,000
High	Utah Street	Southern Avenue	Marble Avenue / Charleston Street	1.9	Bike Boulevard, Bike Lane	Long-Term	\$2,530,000	\$4,330,000
High	Ventura Street	Academy Road	Alameda Boulevard	2.3	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$3,170,000	\$8,740,000
High	William Street	Woodward Road	Pacific Avenue / Edith Boulevard	2.0	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,500,000	\$3,930,000
High	Wyoming Boulevard	Academy Road	Signal Avenue	3.2	Sidepath	Long-Term	\$19,160,000	
High	Yale Boulevard	Las Lomas Road	Tucker Avenue	0.4	Buffered Bike Lane, Bike Lane	Long-Term	\$690,000	\$890,000
Medium	12th Street	Sawmill Road	BNSF Rail Spur	0.3	Buffered Bike Lane	Plausible Near-Term	\$180,000	\$830,000
Medium	12th Street	BNSF Rail Spur	I-40 Frontage Road WB	0.2	Buffered Bike Lane	Long-Term	\$740,000	\$1,310,000
Medium	14th Street	Lomas Boulevard	N/A	0.0	Bike Boulevard Crossing	Long-Term	N/A	



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	15th Street	Marble Avenue	Bellamah Avenue	0.5	Bike Boulevard	Long-Term	\$530,000	\$940,000
Medium	2nd Street / 3rd Street	McKnight Avenue / I-40 Frontage Road EB	Arvada Ave	0.3	Buffered Bike Lane	Long-Term	\$700,000	\$1,270,000
Medium	4th Street	Ortega Road	Alameda Boulevard	0.7	Bike Lane	Plausible Near-Term	N/A	
Medium	64th Street	I-40 Trail	Ladera Drive	0.7	Bike Boulevard, Paved Multi-Use Trail	Plausible Near-Term	\$1,690,000	\$2,320,000
Medium	72nd Street / Hanover Road / Estancia Drive	Fortuna Road	Illif Road	1.2	Enhanced Bike Route, Buffered Bike Lane	Plausible Near-Term	\$1,220,000	\$2,750,000
Medium	98th Street	Dennis Chavez Boulevard	Blake Road	1.1	Buffered Bike Lane	Plausible Near-Term	\$990,000	\$2,980,000
Medium	98th Street	Central Avenue	South of Bluewater Road	0.6	Sidepath	Long-Term	\$1,160,000	
Medium	Alameda Drain Trail	Rio Grande Boulevard / I-40	Matthew Avenue	0.9	Paved Multi-Use Trail	Plausible Near-Term	\$1,300,000	
Medium	Alameda Drain Trail / 2nd Street	Paseo del Norte Boulevard	Alameda Boulevard	0.8	Paved Multi-Use Trail	Long-Term	N/A	
Medium	Amole del Norte Trail	Blake Road	Sage Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	N/A	
Medium	Amole Mesa Avenue	118th Street	Amole Arroyo Trail	1.5	Bike Lane, Bike Boulevard, Sidepath	Plausible Near-Term	\$610,000	\$2,610,000
Medium	Andalusian Avenue	Tanager Drive	102nd Street Trail Access	0.4	Enhanced Bike Route	Plausible Near-Term	\$90,000	\$420,000
Medium	Anderson Avenue / Smith Avenue	Wellesley Drive	Washington Street	0.8	Bike Boulevard	Plausible Near-Term	\$690,000	\$1,420,000
Medium	Arenal Road	Atrisco Riverside Drain	Isleta Boulevard	0.7	Enhanced Bike Route	Plausible Near-Term	N/A	
Medium	Aspen Avenue	I-40 Trail	Rail Trail Access	0.6	Bike Boulevard	Long-Term	\$1,320,000	\$1,820,000
Medium	Atrisco Drain	Arenal Road	Isleta Boulevard	0.2	Paved Multi-Use Trail	Long-Term	N/A	
Medium	Atrisco Riverside Drain	Rio Bravo Boulevard	Arenal Road	1.6	Paved Multi-Use Trail	Long-Term	N/A	
Medium	Atrisco Vista Boulevard	Double Eagle Airport Road	Paseo del Norte	3.9	Sidepath	Long-Term	\$5,450,000	
Medium	Avalon Trail	90th Street	Bluewater Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,320,000	
Medium	Aztec Road / Princeton Drive	Candelaria Road / Comanche Road	North Diversion Channel Trail	1.1	Bike Lane, Bike Boulevard	Plausible Near-Term	\$1,770,000	\$3,540,000
Medium	Balloon Fiesta Northwest Access Trail	North Diversion Channel	I-25	2.2	Sidepath	Long-Term	\$3,040,000	
Medium	Balloon Museum Drive	Jefferson Street / Balloon Museum Drive	San Diego Avenue	0.1	Sidepath	Long-Term	\$210,000	
Medium	Barstow Street	Alameda Boulevard	Trail Access	0.2	Bike Lane	Plausible Near-Term	\$60,000	\$360,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Barstow Street	Eagle Rock Ave / Trail Access	Florence Avenue	0.3	Bike Lane	Long-Term	\$70,000	\$70,000
Medium	Barstow Street	Signal Avenue	Alameda Boulevard	0.1	Separated Bike Lane	Long-Term	\$30,000	\$30,000
Medium	Bear Canyon Trail	Jefferson Street	N/A	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,030,000	
Medium	Bellamah Avenue	West of 15th Street	12th Street	0.2	Buffered Bike Lane	Long-Term	\$80,000	\$410,000
Medium	Benavides Road	Del Rey Road	Camino San Martin	1.2	Bike Boulevard	Plausible Near-Term	\$580,000	\$1,630,000
Medium	Bethel Avenue	San Jose Drain	Broadway Boulevard	0.4	Bike Boulevard	Long-Term	\$200,000	\$560,000
Medium	Black Arroyo Trail	Ellison Road	Seven Bar Loop Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,320,000	
Medium	Blake Road	Isleta Drain (LRBS)	Isleta Boulevard (LRBS)	1.7	Bike Lane	Long-Term	N/A	
Medium	Blake Road	Unser Boulevard	Blake Circle	0.5	Buffered Bike Lane	Long-Term	\$420,000	\$620,000
Medium	Bluewater Road	Camino Azul	East of Coors Boulevard	0.1	Separated Bike Lane	Long-Term	\$730,000	\$730,000
Medium	Bobby Foster Road	Broadway Boulevard	Los Picaros Road	0.5	Buffered Bike Lane	Long-Term	N/A	
Medium	Bobby Foster Road / Los Picaros Road	University Boulevard	Los Picaros Road	8.0	Sidepath	Plausible Near-Term	\$11,250,000	
Medium	Bosque Plaza Lane	Winter Haven Road	La Orilla Road	0.1	Sidepath	Long-Term	\$140,000	
Medium	Broadway Boulevard	Menaul Boulevard	Candelaria Road	0.6	Separated Bike Lane	Plausible Near-Term	\$1,060,000	\$2,510,000
Medium	Calabacillas Arroyo Spur Trail	Calabacillas Arroyo	Unser Boulevard	1.4	Paved Multi-Use Trail	Long-Term	\$1,930,000	
Medium	Calle Norteña	Taylor Ranch Drive / Taylor Ranch Road	Golf Course Road	0.6	Buffered Bike Lane	Plausible Near-Term	\$520,000	\$1,620,000
Medium	Camino de la Sierra / Arcadia Road	Tramway Trail	Copper Avenue	2.0	Enhanced Bike Route	Plausible Near-Term	\$470,000	\$2,230,000
Medium	Camino de la Sierra / Glenwood Hills Drive	Candelaria Road	Emudito Trailhead	1.8	Enhanced Bike Route	Plausible Near-Term	\$410,000	\$1,970,000
Medium	Camino de la Sierra / Lomas Boulevard	Monte Largo Drive / Monte Largo Drive	Indian School Road	0.5	Enhanced Bike Route	Plausible Near-Term	\$130,000	\$600,000
Medium	Camino San Martin	Snow Vista Boulevard	Gibson Boulevard	0.8	Bike Boulevard	Plausible Near-Term	\$1,400,000	\$2,070,000
Medium	Campbell Road	Paseo del Bosque Trail	Alameda Drain Trail Spur	0.9	Bike Boulevard	Plausible Near-Term	\$590,000	\$1,390,000
Medium	Candelaria Road	Tramway Boulevard	Palo Alto Drive	0.1	Separated Bike Lane	Long-Term	\$720,000	\$720,000
Medium	Candelaria Road	I-25 Frontage Road SB	Princeton Drive	0.3	Separated Two-Way Cycle Track	Long-Term	\$1,240,000	\$2,130,000
Medium	Carlisle Boulevard	Calle del Ranchero	Constitution Road	0.1	Bike Lane	Plausible Near-Term	\$610,000	\$710,000





Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Carruthers Road	Westwind Street / Overlook Drive	Academy Road	0.7	Bike Boulevard	Plausible Near-Term	\$2,420,000	\$3,070,000
Medium	Cedarbrook Avenue / Larchmont Drive / Montgomery Boulevard	Tramway Boulevard / Manitoba Drive	Glenwood Hills Drive	1.1	Enhanced Bike Route, Sidepath	Plausible Near-Term	\$430,000	\$1,290,000
Medium	Chacoma Place / San Pasquale Avenue	El Vado / East of Central Avenue	Laguna Boulevard	0.9	Enhanced Bike Route	Plausible Near-Term	\$210,000	\$990,000
Medium	Chavez Road	Rio Grande Boulevard	4th Street	1.0	Sidepath	Long-Term	N/A	
Medium	Chico Road	Eubank Boulevard	Morris Street	0.5	Buffered Bike Lane	Plausible Near-Term	\$480,000	\$1,400,000
Medium	Cloudview Avenue / Encantado Road	Lomas Verdes Avenue / Panorama Place	Avital Northeast Drive	0.1	Separated Bike Lane	Long-Term	\$760,000	\$760,000
Medium	Comanche Road	Alexander Boulevard	Princeton Drive	0.5	Sidepath, Bike Lane	Plausible Near-Term	N/A	
Medium	Coors Boulevard	Gun Club Road	Blake Road	1.7	Separated Bike Lane	Plausible Near-Term	N/A	
Medium	Coors Frontage Road	Southwestern Polytechnic Institute Road	Paseo del Norte Trail	0.4	Enhanced Bike Route	Plausible Near-Term	\$100,000	\$440,000
Medium	Corrales Main / La Orilla Outlet Northwest Trail	Coors Trail	Southwestern Polytechnic Institute Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$580,000	
Medium	De Vargas Road	Osprey Drive	Cockatiel Drive	0.2	Buffered Bike Lane	Long-Term	\$50,000	\$50,000
Medium	Del Mastro Drive	Del Rey Road	De Vargas Road	0.5	Bike Lane	Plausible Near-Term	\$180,000	\$1,080,000
Medium	Del Rey Road	Benavides Road	De Anza Drive	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	\$420,000	\$1,110,000
Medium	Dellyne Avenue	West of Unser Boulevard	Coors Boulevard	1.1	Buffered Bike Lane	Plausible Near-Term	\$730,000	\$2,890,000
Medium	Dellyne Avenue	Oxnard Road	Winter Haven Road	0.3	Separated Bike Lane	Long-Term	\$1,390,000	\$1,390,000
Medium	Don Quixote Drive / Don Fernando Avenue	Paseo del Bosque Trail Access	Rio Grande Boulevard	0.7	Bike Boulevard	Long-Term	\$1,400,000	\$2,050,000
Medium	Eagle Ranch Road	All Saints Road	Paradise Boulevard	0.2	Sidepath	Long-Term	\$940,000	
Medium	Edith Boulevard	El Pueblo Road	Alameda Boulevard	0.8	Enhanced Bike Route	Plausible Near-Term	\$1,220,000	\$1,920,000
Medium	El Pueblo Road	North Diversion Channel Trail	West of Tiburon Street	0.4	Sidepath	Long-Term	\$550,000	
Medium	Embudito Drive / Hugh Graham Road	Tramway Trail	Glenwood Hills Drive / Camino de la Sierra	0.8	Enhanced Bike Route	Plausible Near-Term	\$200,000	\$920,000
Medium	Embudo Channel Trail	Cutler Avenue	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$290,000	
Medium	Encantado Road	Avital Northeast Drive	Camino de la Sierra	0.6	Enhanced Bike Route, Bike Lane	Plausible Near-Term	\$180,000	\$880,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Eucariz Avenue	West of 98th Street	Stinson Street	1.6	Bike Boulevard, Bike Lane, Sidepath	Plausible Near-Term	\$3,140,000	\$4,550,000
Medium	Florence Avenue	Louisiana Boulevard	Barstow Road	1.0	Bike Lane	Long-Term	\$310,000	\$1,340,000
Medium	Forest Hills Drive	I-25 NB Frontage Road	Barnhart Street	0.2	Buffered Bike Lane	Long-Term	\$50,000	\$50,000
Medium	Fortuna Road	Ben E Keith Way	64th Street	0.7	Buffered Bike Lane	Plausible Near-Term	\$290,000	\$1,700,000
Medium	Fortuna Road	Estancia Drive	64th Street	0.2	Separated Bike Lane	Long-Term	\$990,000	\$990,000
Medium	Fortuna Road Trail	Unser Boulevard	Ben E Keith Way	0.4	Paved Multi-Use Trail	Long-Term	\$560,000	
Medium	Gallant Fox Road / Raton Avenue	Juan Tabo Boulevard	Wagon Train Drive	0.6	Enhanced Bike Route, Paved Multi-Use Trail	Plausible Near-Term	\$470,000	\$950,000
Medium	Gibson Boulevard	Eubank Boulevard	Innovation Parkway	0.3	Bike Lane	Long-Term	\$360,000	\$360,000
Medium	Gibson Boulevard	Camino San Martin	Spring Flower Place	0.1	Separated Bike Lane	Long-Term	\$750,000	\$750,000
Medium	Gibson Boulevard	De Anza Drive	Unser Boulevard / Spring Flower Road	1.1	Sidepath	Long-Term	\$1,510,000	
Medium	Gibson Boulevard	Buena Vista Drive	Yale Boulevard	0.1	Sidepath	Long-Term	\$180,000	
Medium	Gibson Boulevard	I-25 NB Frontage Road	University Boulevard	0.3	Sidepath	Long-Term	\$720,000	
Medium	Golf Course Road	Homestead Circle	Paseo del Norte	1.0	Sidepath	Long-Term	\$5,450,000	
Medium	Greene Avenue	Golf Course Road	Irving Boulevard	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,320,000	\$2,060,000
Medium	Griegos Drain	Campbell Road	Candelaria Road	0.2	Paved Multi-Use Trail	Long-Term	\$350,000	
Medium	Griegos Drain	Montaño Road	Chavez Road	1.1	Paved Multi-Use Trail	Long-Term	\$1,490,000	
Medium	Griegos Road	5th Street	Las Hermanas Street	0.4	Buffered Bike Lane, Bike Lane	Plausible Near-Term	\$1,140,000	\$2,130,000
Medium	Harper Road	Barstow Street	Ventura Avenue	1.7	Sidepath	Long-Term	\$3,040,000	
Medium	Herman Roser Avenue	Elizabeth Street / Tony Sanchez Drive	Juan Tabo Boulevard	0.3	Bike Boulevard, Bike Lane	Long-Term	\$1,190,000	\$1,570,000
Medium	Holbrook Street	Ramtha Street / Quintessence Road	Carmel Avenue	1.0	Bike Boulevard, Separated Bike Lane, Buffered Bike Lane, Paved Multi-Use Trail	Long-Term	\$1,220,000	\$2,560,000
Medium	Homestead Circle	Taylor Ranch Road	Los Alisos Place	0.1	Bike Lane	Plausible Near-Term	\$330,000	\$500,000
Medium	I-25 Frontage Road NB	Harper Drive	Del Rey Avenue	0.7	Sidepath	Long-Term	\$1,260,000	
Medium	I-40 Trail	Gabaldon Drive	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$290,000	
Medium	Iliff Road	Estancia Drive	Atrisco Dr	0.5	Separated Bike Lane, Bike Lane	Long-Term	\$670,000	\$1,930,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Iliff Road / 72nd Street	I-40 Trail Bridge	Ladera Drive	0.7	Buffered Bike Lane	Plausible Near-Term	\$270,000	\$1,580,000
Medium	Indian School Road	Americas Parkway	Uptown Loop Road	0.3	Bike Lane	Plausible Near-Term	\$990,000	\$1,570,000
Medium	Indian School Road	Rio Grande Boulevard	12th Street	0.7	Buffered Bike Lane	Plausible Near-Term	\$830,000	\$1,400,000
Medium	Indian School Road	Cumbres Street	Embudo Trailhead	0.9	Enhanced Bike Route, Bike Lane	Plausible Near-Term	\$230,000	\$1,120,000
Medium	Indian School Road	Eastridge Drive / Constitution Avenue	Cumbres Street	0.5	Separated Bike Lane	Plausible Near-Term	\$690,000	\$1,970,000
Medium	Iron Avenue / 14th Street	Tingley Drive / Paseo del Bosque Trail	Silver Avenue	0.5	Bike Boulevard, Sidepath	Plausible Near-Term	\$300,000	\$650,000
Medium	Irving Boulevard	Universe Boulevard	La Paz Drive	0.6	Buffered Bike Lane	Plausible Near-Term	\$1,030,000	\$2,660,000
Medium	Irving Boulevard	Rio Los Pinos Drive/Timan Avenue	Golf Course Road	0.8	Separated Bike Lane	Plausible Near-Term	\$870,000	\$2,810,000
Medium	Jefferson Street	Montgomery Boulevard	McLeod Road	0.5	Buffered Bike Lane	Plausible Near-Term	\$910,000	\$2,080,000
Medium	Jefferson Street	Masthead Street	Paseo del Norte WB Frontage Road	1.4	Sidepath	Long-Term	\$2,800,000	
Medium	Juan Tabo Boulevard	Cicadia Road	Horseshoe Trail	0.4	Buffered Bike Lane	Plausible Near-Term	\$260,000	\$1,170,000
Medium	Kachina Street	San Ildefonso Drive	Taylor Ranch Road	0.7	Bike Lane, Enhanced Bike Route	Plausible Near-Term	\$860,000	\$2,210,000
Medium	Kayenta Street	South of Irving Boulevard	McMahon Boulevard	0.8	Buffered Bike Lane	Plausible Near-Term	\$800,000	\$2,680,000
Medium	Kimela Drive / Rainwater Road	Camino San Martin	Desert Breeze Drive / Trail Access	0.9	Bike Boulevard	Plausible Near-Term	\$1,460,000	\$2,240,000
Medium	Kimmick Drive	Unser Boulevard	Paseo del Norte	0.6	Bike Lane	Long-Term	\$430,000	\$430,000
Medium	Kimmick Drive	Rosa Parks Road	Paseo del Norte	0.2	Sidepath	Plausible Near-Term	\$560,000	
Medium	La Cueva Channel / San Diego Avenue Trail	Balloon Museum Drive	Wyoming Boulevard	2.0	Paved Multi-Use Trail	Long-Term	N/A	
Medium	La Orilla Road	West of Coors Boulevard	Bosque Plaza Lane	0.3	Separated Bike Lane, Sidepath	Long-Term	\$1,040,000	\$1,040,000
Medium	Laguna Boulevard	Kit Carson Avenue	14th Street	0.6	Enhanced Bike Route	Plausible Near-Term	\$450,000	\$1,010,000
Medium	Las Lomas Drive	Vista Del Norte Drive	El Pueblo Road	0.7	Bike Lane	Plausible Near-Term	\$260,000	\$1,550,000
Medium	Laurelwood Parkway	Hanover Road / I-40 Trail Access	Ladera Drive	0.4	Buffered Bike Lane	Plausible Near-Term	\$180,000	\$1,020,000
Medium	Liberty Drive	Barstow Street	Ventura Street	0.5	Bike Boulevard	Plausible Near-Term	\$1,580,000	\$2,040,000
Medium	Lomas Channel Trail	Hupmobile Drive	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$290,000	
Medium	Los Volcanes Road	Unser Boulevard	Airport Drive	0.5	Bike Lane	Plausible Near-Term	\$450,000	\$670,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Louisiana Boulevard	Modesto Avenue	Elena Drive	0.7	Separated Bike Lane	Long-Term	\$150,000	\$150,000
Medium	Manitoba Drive	Tramway Ridge Drive	Larchmont Drive	0.2	Separated Bike Lane, Bike Lane	Long-Term	\$870,000	\$970,000
Medium	Mariposa Basin Recreation Trail	San Ildefonso Drive	Mojave Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$580,000	
Medium	Marna Lynn Avenue / Davenport Street / Congress Avenue	Petroglyph Trailhead	Congress Avenue / Golf Course Road	1.1	Bike Boulevard	Plausible Near-Term	\$2,910,000	\$3,920,000
Medium	McKinney Drive	Academy Road	Forest Hills Drive	0.8	Buffered Bike Lane, Bike Lane	Plausible Near-Term	\$610,000	\$2,170,000
Medium	Mesa Arenoso Drive / Pauza Drive	Sacate Blanco Avenue	Gibson Boulevard	0.9	Bike Boulevard	Plausible Near-Term	\$1,460,000	\$2,230,000
Medium	Mill Pond Road Trail	Aspen Avenue	I-40 Trail	0.2	Paved Multi-Use Trail	Long-Term	\$320,000	
Medium	Mission Avenue	Alexander Boulevard	Chappel Road	0.6	Buffered Bike Lane	Plausible Near-Term	\$410,000	\$1,890,000
Medium	Mojave Street	Atrisco Drive	Homestead Circle	1.0	Enhanced Bike Route, Bike Lane, Paved Multi-Use Trail	Plausible Near-Term	\$300,000	\$1,380,000
Medium	Monachos Road / Via Posada Street	Juan Tabo Boulevard	Wagon Train Drive / Stagecoach Road	0.7	Enhanced Bike Route, Paved Multi-Use Trail	Plausible Near-Term	\$400,000	\$940,000
Medium	Montaño Road	5th Street	2nd Street	0.6	Sidepath	Long-Term	\$1,490,000	
Medium	Monte Largo Drive / Menaul Boulevard	Lomas Boulevard / Monte Verde Drive	Tramway Trail	1.7	Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$1,000,000	\$4,290,000
Medium	Montgomery Boulevard	Culture Drive	North Diversion Channel Trail	0.5	Sidepath, Bike Lane	Plausible Near-Term	N/A	
Medium	Moon Street	Matthew Avenue	Veranda Road	0.1	Bike Lane	Plausible Near-Term	\$340,000	\$550,000
Medium	Moon Street / Easterday Drive	Lomas Boulevard / I-40 Trail Bridge	Constitution Avenue	0.5	Bike Boulevard, Bike Lane	Plausible Near-Term	\$820,000	\$1,340,000
Medium	North Diversion Channel Trail Extension	Balloon Museum Drive	Edith Boulevard	0.9	Paved Multi-Use Trail	Long-Term	\$1,270,000	
Medium	North Domingo Baca Trail	Barstow Street	Ventura Street	0.5	Paved Multi-Use Trail	Long-Term	\$730,000	
Medium	Osuna Road	2nd Street / Elwood Street	Chappell Road	0.9	Sidepath	Long-Term	\$2,190,000	
Medium	Osuna Road	West of 4th Street	2nd Street	0.5	Sidepath	Long-Term	N/A	
Medium	Paradise Boulevard	Chaparral Street	Paseo del Norte Northwest	0.2	Sidepath	Long-Term	\$1,290,000	
Medium	Paseo de la Mesa	Atrisco Vista Boulevard	Paseo de la Mesa Trailhead	0.1	Paved Multi-Use Trail	Long-Term	\$220,000	



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Paseo del Norte	Calle Norteña	Golf Course Road	0.8	Separated Bike Lane	Plausible Near-Term	\$600,000	\$1,160,000
Medium	Paseo del Norte Trail	Rio Grande Boulevard	El Pueblo Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$440,000	
Medium	Piedras Marcadas Park Trail	Golf Course Road	Rancho Sereno Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,320,000	
Medium	Piedras Marcadas Trail	Ventana Ranch Road	Universe Boulevard	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,640,000	
Medium	Rainbow Boulevard	Unser Boulevard	Volcano Vista High School	0.8	Sidepath	Long-Term	\$1,440,000	
Medium	Renaissance Boulevard	Alexander Boulevard (south of Montaña Road)	Alexander Boulevard (north of Montaña Road)	1.0	Sidepath	Long-Term	\$1,960,000	
Medium	Richmond Drive	Menaul Boulevard	Candelaria Road	0.5	Bike Lane	Plausible Near-Term	\$480,000	\$1,430,000
Medium	Rio Bravo Boulevard	Isleta Boulevard	2nd Street	2.5	Sidepath	Plausible Near-Term	N/A	
Medium	Rockwood Road	Rolling Rock Place / Unser Boulevard Access	Seven Falls Place / Trail Access	0.4	Enhanced Bike Route	Plausible Near-Term	\$100,000	\$440,000
Medium	Rosa Parks Road	Unser Boulevard	Calle Norteña	0.6	Bike Lane	Long-Term	\$130,000	\$130,000
Medium	Rosa Parks Road	Kimmick Drive	Calle Norteña	0.3	Sidepath	Plausible Near-Term	\$1,020,000	
Medium	Rough Rider Road / Pioneer Trail	Barstow Street	Ventura Street	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,580,000	\$2,220,000
Medium	Rover Avenue	Tramway Boulevard	Monte Largo Drive	0.3	Bike Lane	Plausible Near-Term	\$400,000	\$910,000
Medium	Rutledge Street / Washington Street / Ellison Street	North Diversion Channel Trail Access	Jefferson Street	1.2	Enhanced Bike Route, Bike Lane	Plausible Near-Term	\$1,190,000	\$2,510,000
Medium	Sage Road	East of Unser Boulevard	Old Coors Drive	1.1	Separated Bike Lane	Long-Term	\$890,000	\$890,000
Medium	Saint Josephs Drive	Saint Joseph's Avenue	Alamogordo Drive	0.7	Separated Bike Lane	Long-Term	\$1,600,000	\$2,770,000
Medium	San Antonio Drive / Ellison Street	I-25 Frontage Road SB	I-25 Frontage Road NB	0.1	Sidepath	Long-Term	\$1,610,000	
Medium	San Diego Avenue	Balloon Museum Drive	San Mateo Boulevard	0.4	Buffered Bike Lane	Plausible Near-Term	\$140,000	\$840,000
Medium	San Francisco Road I-25 Crossing	Jefferson Street	I-25 NB Frontage Road	0.5	Sidepath, Paved Multi-Use Trail	Long-Term	N/A	
Medium	San Ildefonso Drive	Montaña Road	Mojave Street	0.5	Buffered Bike Lane	Plausible Near-Term	\$480,000	\$1,410,000
Medium	San Jose Drain	City Limits	Bethel Avenue	0.6	Paved Multi-Use Trail	Long-Term	\$920,000	
Medium	San Jose Drain	Rio Bravo Boulevard / 2nd Street	City Limits	1.5	Paved Multi-Use Trail, Sidepath	Long-Term	N/A	





Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	San Mateo Boulevard	Wilshire Avenue	Balloon Fiesta Parkway	1.2	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$1,070,000	\$4,020,000
Medium	San Pedro Drive	Domingo Baca Trail	I-25 / Balloon Fiesta Parkway	1.5	Buffered Bike Lane, Bike Lane, Separated Bike Lane	Long-Term	\$750,000	\$1,160,000
Medium	San Pedro Drive	Domingo Baca Trail	Carmel Avenue	0.3	Separated Bike Lane	Long-Term	\$2,040,000	\$2,040,000
Medium	San Pedro Drive / Forest Hills Drive	Barnhart Street	Domingo Baca Trail	1.3	Buffered Bike Lane, Separated Bike Lane, Bike Lane	Plausible Near-Term	\$850,000	\$3,400,000
Medium	Seven Bar Loop	Coors Boulevard Bypass	Coors Boulevard	0.6	Buffered Bike Lane	Plausible Near-Term	\$1,290,000	\$2,830,000
Medium	Signal Avenue	Barstow Street	Ventura Street	0.5	Bike Lane	Long-Term	\$110,000	\$110,000
Medium	Silver Charm Road	Juan Tabo Boulevard	Gulf Stream Street	0.2	Enhanced Bike Route	Plausible Near-Term	\$340,000	\$500,000
Medium	Simms Park Road	Tramway Boulevard	Elena Gallegos Open Space	1.4	Enhanced Bike Route	Plausible Near-Term	\$320,000	\$1,520,000
Medium	Snow Vista Trail Connection	Duke Avenue	Eucariz Avenue	0.2	Paved Multi-Use Trail	Long-Term	\$250,000	
Medium	Spring Flower Road / Desert Breeze Drive	Unser Boulevard	Trail Access	0.4	Enhanced Bike Route	Plausible Near-Term	\$110,000	\$490,000
Medium	Stagecoach Road / Wagon Train Drive	Four Hills Road	Four Hills Road	3.7	Enhanced Bike Route	Plausible Near-Term	\$1,150,000	\$4,390,000
Medium	Stanford Drive	Marble Avenue	Indian School Road	0.7	Bike Lane, Bike Boulevard	Plausible Near-Term	\$450,000	\$1,510,000
Medium	Sunport Boulevard	I-25 NB Frontage Road	Transport Street	0.1	Sidepath	Plausible Near-Term	\$460,000	
Medium	Sunport Loop / Yale Boulevard	Randolph Road	Girard Boulevard	0.8	Sidepath	Long-Term	\$1,370,000	
Medium	Tanager Drive	Red Robin Road	Tower Road	0.5	Enhanced Bike Route	Plausible Near-Term	\$400,000	\$810,000
Medium	Taylor Ranch Road	North of Homestead Circle	East of Golf Course Road	0.4	Buffered Bike Lane	Plausible Near-Term	\$880,000	\$1,980,000
Medium	Taylor Ranch Road	Montaño Road	Montaño Plaza Drive	0.4	Buffered Bike Lane	Plausible Near-Term	\$470,000	\$1,310,000
Medium	Tesuque Drive	Montaño Road	Homestead Circle	1.2	Bike Boulevard	Plausible Near-Term	\$1,910,000	\$2,980,000
Medium	Tiburón Street / Headline Boulevard	Tiburón Street, El Pueblo Road	Headline Boulevard	0.8	Buffered Bike Lane, Enhanced Bike Route	Plausible Near-Term	\$590,000	\$2,020,000
Medium	Tierra Pintada Boulevard	Watershed Drive	Unser Boulevard	0.6	Separated Bike Lane	Long-Term	\$2,630,000	\$4,100,000
Medium	Tijeras Arroyo Trail	Innovation Parkway	Juan Tabo Boulevard	0.6	Paved Multi-Use Trail	Long-Term	\$880,000	
Medium	Tramway Boulevard	Wenonah Avenue	Central Avenue	0.2	Sidepath	Long-Term	\$220,000	
Medium	Turner Drive	Encantado Road	Lomas Boulevard	0.8	Enhanced Bike Route	Plausible Near-Term	\$480,000	\$1,210,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Universe Boulevard	Rainbow Boulevard	Paseo del Norte	2.8	Sidepath	Long-Term	\$4,560,000	
Medium	University Boulevard	Arbus Drive	Stryker Road	0.4	Buffered Bike Lane	Long-Term	\$300,000	\$1,360,000
Medium	University Boulevard	Arbus Drive	Crick Avenue	1.5	Sidepath	Plausible Near-Term	\$2,110,000	
Medium	University Boulevard	Clark Carr Road	Aircraft Avenue	1.3	Sidepath	Long-Term	\$2,140,000	
Medium	Unser Boulevard	Irving Boulevard	Existing Sidepath	0.1	Sidepath	Plausible Near-Term	\$380,000	
Medium	Ventana Ranch East Trails	Paradise Boulevard	Irving Boulevard	1.8	Paved Multi-Use Trail	Plausible Near-Term	\$2,600,000	
Medium	Ventana Ranch South Trail	Ventana West Parkway	Hearthstone Road	0.4	Paved Multi-Use Trail	Plausible Near-Term	\$510,000	
Medium	Ventana Ranch Trail	Rainbow Boulevard	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$150,000	
Medium	Ventana West Parkway	Ventana Ranch South Trail	Paseo del Norte	0.3	Sidepath	Plausible Near-Term	\$450,000	
Medium	Villa Corrales	Vista del Norte Drive	Diversion Channel Trail Access	0.2	Enhanced Bike Route	Plausible Near-Term	\$340,000	\$530,000
Medium	Volcano Road	98th Street	94th Street	0.3	Sidepath	Long-Term	\$390,000	
Medium	Washington Street	Indian School Road	Menaul Boulevard	0.5	Buffered Bike Lane	Plausible Near-Term	\$1,070,000	\$2,020,000
Medium	Washington Street	Paseo del Norte Frontage Road	Alameda Boulevard	0.7	Buffered Bike Lane	Plausible Near-Term	\$260,000	\$1,530,000
Medium	Western Trail / Namaste Road	Unser Boulevard	Tres Gracias Drive / San Antonio Oxbow Open Space	1.2	Separated Bike Lane, Buffered Bike Lane, Enhanced Bike Route	Plausible Near-Term	\$1,700,000	\$4,330,000
Medium	Westgate Community Park Trail	Delgado Drive	98th Street / Snow Vista Boulevard	0.9	Paved Multi-Use Trail	Plausible Near-Term	\$1,210,000	
Medium	Winter Haven Road	Montaño Plaza Drive	Bontierra Trail	0.4	Buffered Bike Lane	Plausible Near-Term	\$150,000	\$870,000
Medium	Wyoming Boulevard	Oakland Avenue	Beverly Hills Avenue	0.6	Separated Bike Lane	Long-Term	\$510,000	\$760,000
Medium	Wyoming Boulevard	Palomas Avenue	Holly Avenue	0.2	Separated Bike Lane	Long-Term	\$1,290,000	\$1,290,000
Medium	Wyoming Boulevard	Signal Avenue	Oakland Avenue	0.2	Separated Bike Lane	Long-Term	\$960,000	\$960,000
Medium	Wyoming Boulevard	Bear Canyon Arroyo Trail	Spain Road	0.1	Sidepath	Plausible Near-Term	\$430,000	
Medium	Yale Boulevard	Randolph Road	Gibson Boulevard	0.2	Buffered Bike Lane	Plausible Near-Term	\$720,000	\$1,200,000



**Table 2: Priority Levels for Proposed Paved Multi-use Trail Crossings**

Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate
<b>Very High</b>	Bear Canyon Arroyo Trail	Wyoming Boulevard	Morris Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,350,000
<b>Very High</b>	Paseo de las Montañas Trail / Embudo Recreation Trail	Hendola Drive	Marie Park Drive	0.0	Paved Multi-Use Trail Crossing	Long-Term	\$7,910,000
<b>Very High</b>	Paseo del Nordeste Trail	Carlisle Boulevard	Pennsylvania Street	0.0	Paved Multi-Use Trail Crossing	Long-Term	\$5,120,000
<b>High</b>	Alameda Drain Trail	Matthew Avenue	4th Street	0.0	Paved Multi-Use Trail Crossing	Long-Term	\$1,610,000
<b>High</b>	Amole Arroyo Trail / Snow Vista Trail / West Gate Trail	Blake Road	Tower Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,930,000
<b>High</b>	Domingo Baca Trail	San Pedro Drive	Ventura Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,790,000
<b>High</b>	Mariposa Diversion Trail	Unser Boulevard	Kachina Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,640,000
<b>High</b>	Pino Arroyo Trail / Quintessence Trail	San Pedro Drive	Toulon Drive	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$4,110,000
<b>Medium</b>	Amole del Norte Trail	Blake Road	Sage Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	N/A
<b>Medium</b>	Avalon Trail	90th Street	Bluewater Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,320,000
<b>Medium</b>	Bear Canyon Trail	Jefferson Street	N/A	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,030,000
<b>Medium</b>	Black Arroyo Trail	Ellison Road	Seven Bar Loop Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,320,000
<b>Medium</b>	Corrales Main / La Orilla Outlet Northwest Trail	Coors Trail	Southwestern Polytechnic Institute Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$580,000
<b>Medium</b>	Embudo Channel Trail	Cutler Avenue	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$290,000
<b>Medium</b>	I-40 Trail	Gabalton Drive	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$290,000
<b>Medium</b>	Lomas Channel Trail	Hupmobile Drive	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$290,000
<b>Medium</b>	Mariposa Basin Recreation Trail	San Ildefonso Drive	Mojave Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$580,000
<b>Medium</b>	Paseo del Norte Trail	Rio Grande Boulevard	El Pueblo Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$440,000
<b>Medium</b>	Piedras Marcadas Park Trail	Golf Course Road	Rancho Sereno Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,320,000
<b>Medium</b>	Piedras Marcadas Trail	Ventana Ranch Road	Universe Boulevard	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,640,000
<b>Medium</b>	Ventana Ranch Trail	Rainbow Boulevard	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$150,000

*Note: This table includes new or upgraded crossings to existing trails. Crossings as part of new trails are included in "Paved Multi-Use Trail Projects."*



**Table 3: Priority Levels for Proposed Paved Multi-use Trails**

Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate
High	Alameda Drain Trail	Central Avenue	Rio Grande Boulevard / I-40	0.9	Paved Multi-Use Trail	Long-Term	\$1,240,000
High	Atrisco Riverside Drain	Bridge Boulevard	Central Avenue	1.7	Paved Multi-Use Trail	Long-Term	\$2,390,000
High	Calabacillas Arroyo Trail	Universe Boulevard	Eagle Ranch Road	4.4	Paved Multi-Use Trail	Long-Term	\$6,230,000
High	Diversion Channel Trail UNM Connection	Tucker Avenue	Yale Boulevard	0.2	Paved Multi-Use Trail	Long-Term	\$250,000
High	Isleta Drain	Central Avenue	Rio Bravo Boulevard	4.3	Paved Multi-Use Trail	Long-Term	N/A
High	South Diversion Channel Trail	Rio Bravo Boulevard	Basehart	3.6	Paved Multi-Use Trail	Long-Term	\$5,070,000
High	Tom Bolack Park Trail	San Pedro Drive	Paseo de las Montañas Trail	0.3	Paved Multi-Use Trail	Long-Term	\$430,000
High	UNM South Campus Trail	Gibson Boulevard	Buena Vista Drive	0.7	Paved Multi-Use Trail	Long-Term	\$1,060,000
Medium	Alameda Drain Trail	Rio Grande Boulevard / I-40	Matthew Avenue	0.9	Paved Multi-Use Trail	Plausible Near-Term	\$1,300,000
Medium	Alameda Drain Trail / 2nd Street	Paseo del Norte Boulevard	Alameda Boulevard	0.8	Paved Multi-Use Trail	Long-Term	N/A
Medium	Atrisco Drain	Arenal Road	Isleta Boulevard	0.2	Paved Multi-Use Trail	Long-Term	N/A
Medium	Atrisco Riverside Drain	Rio Bravo Boulevard	Arenal Road	1.6	Paved Multi-Use Trail	Long-Term	N/A
Medium	Calabacillas Arroyo Spur Trail	Calabacillas Arroyo	Unser Boulevard	1.4	Paved Multi-Use Trail	Long-Term	\$1,930,000
Medium	Fortuna Road Trail	Unser Boulevard	Ben E Keith Way	0.4	Paved Multi-Use Trail	Long-Term	\$560,000
Medium	Griegos Drain	Campbell Road	Candelaria Road	0.2	Paved Multi-Use Trail	Long-Term	\$350,000
Medium	Griegos Drain	Montaño Road	Chavez Road	1.1	Paved Multi-Use Trail	Long-Term	\$1,490,000
Medium	La Cueva Channel / San Diego Avenue Trail	Balloon Museum Drive	Wyoming Boulevard	2.0	Paved Multi-Use Trail	Long-Term	N/A
Medium	Mill Pond Road Trail	Aspen Avenue	I-40 Trail	0.2	Paved Multi-Use Trail	Long-Term	\$320,000
Medium	North Diversion Channel Trail Extension	Balloon Museum Drive	Edith Boulevard	0.9	Paved Multi-Use Trail	Long-Term	\$1,270,000
Medium	North Domingo Baca Trail	Barstow Street	Ventura Street	0.5	Paved Multi-Use Trail	Long-Term	\$730,000
Medium	Paseo de la Mesa	Atrisco Vista Boulevard	Paseo de la Mesa Trailhead	0.1	Paved Multi-Use Trail	Long-Term	\$220,000
Medium	San Jose Drain	City Limits	Bethel Avenue	0.6	Paved Multi-Use Trail	Long-Term	\$920,000
Medium	Snow Vista Trail Connection	Duke Avenue	Eucariz Avenue	0.2	Paved Multi-Use Trail	Long-Term	\$250,000
Medium	Tijeras Arroyo Trail	Innovation Parkway	Juan Tabo Boulevard	0.6	Paved Multi-Use Trail	Long-Term	\$880,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate
Medium	Ventana Ranch East Trails	Paradise Boulevard	Irving Boulevard	1.8	Paved Multi-Use Trail	Plausible Near-Term	\$2,600,000
Medium	Ventana Ranch South Trail	Ventana West Parkway	Hearthstone Road	0.4	Paved Multi-Use Trail	Plausible Near-Term	\$510,000
Medium	Westgate Community Park Trail	Delgado Drive	98th Street / Snow Vista Boulevard	0.9	Paved Multi-Use Trail	Plausible Near-Term	\$1,210,000
Medium	San Jose Drain	Rio Bravo Boulevard / 2nd Street	City Limits	1.5	Paved Multi-Use Trail, Sidepath	Long-Term	N/A





**Table 4: Priority Levels for Proposed Sidepaths**

Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate
<b>Very High</b>	Academy Road	Wyoming Boulevard	Tramway Boulevard	4.3	Sidepath	Long-Term	\$36,930,000
<b>Very High</b>	Paseo del Norte	I-25 Frontage Road NB	Eubank Boulevard	4.6	Sidepath	Long-Term	N/A
<b>High</b>	98th Street / Snow Vista Boulevard	North of Rio Clara Avenue	De Vargas Road	1.4	Sidepath	Long-Term	\$2,220,000
<b>High</b>	Alameda Boulevard	Balloon Museum Drive	Ventura Street	5.8	Sidepath	Long-Term	\$11,360,000
<b>High</b>	Alameda Boulevard / NM 528	Lorretta Drive	Westside Boulevard	3.7	Sidepath	Long-Term	N/A
<b>High</b>	Avenida Cesar Chavez Railroad Overpass	3rd Street	Broadway Boulevard	0.4	Sidepath	Long-Term	N/A
<b>High</b>	Avenida Dolores Huerta	La Vega Drive	Paseo del Bosque Trail	0.4	Sidepath	Long-Term	N/A
<b>High</b>	Central Avenue	90th Street	Unser Transit Center	2.9	Sidepath	Long-Term	\$4,970,000
<b>High</b>	Irving Boulevard	Unser Boulevard	Golf Course Road	4.5	Sidepath	Long-Term	\$7,440,000
<b>High</b>	Lomas Boulevard	6th Street	BNSF Rail Corridor	0.4	Sidepath	Long-Term	\$2,300,000
<b>High</b>	Paseo del Norte	Universe Boulevard	Eagle Ranch Road	4.9	Sidepath	Long-Term	\$8,690,000
<b>High</b>	Unser Boulevard	Montaño Road	Paradise Boulevard	6.6	Sidepath	Long-Term	\$10,790,000
<b>High</b>	Wyoming Boulevard	Academy Road	Signal Avenue	3.2	Sidepath	Long-Term	\$19,160,000
<b>Medium</b>	98th Street	Central Avenue	South of Bluewater Road	0.6	Sidepath	Long-Term	\$1,160,000
<b>Medium</b>	Atrisco Vista Boulevard	Double Eagle Airport Road	Paseo del Norte	3.9	Sidepath	Long-Term	\$5,450,000
<b>Medium</b>	Balloon Fiesta Northwest Access Trail	North Diversion Channel	I-25	2.2	Sidepath	Long-Term	\$3,040,000
<b>Medium</b>	Balloon Museum Drive	Jefferson Street / Balloon Museum Drive	San Diego Avenue	0.1	Sidepath	Long-Term	\$210,000
<b>Medium</b>	Bobby Foster Road / Los Picaros Road	University Boulevard	Los Picaros Road	8.0	Sidepath	Plausible Near-Term	\$11,250,000
<b>Medium</b>	Bosque Plaza Lane	Winter Haven Road	La Orilla Road	0.1	Sidepath	Long-Term	\$140,000
<b>Medium</b>	Chavez Road	Rio Grande Boulevard	4th Street	1.0	Sidepath	Long-Term	N/A
<b>Medium</b>	Eagle Ranch Road	All Saints Road	Paradise Boulevard	0.2	Sidepath	Long-Term	\$940,000
<b>Medium</b>	El Pueblo Road	North Diversion Channel Trail	West of Tiburon Street	0.4	Sidepath	Long-Term	\$550,000
<b>Medium</b>	Gibson Boulevard	De Anza Drive	Unser Boulevard / Spring Flower Road	1.1	Sidepath	Long-Term	\$1,510,000
<b>Medium</b>	Gibson Boulevard	Buena Vista Drive	Yale Boulevard	0.1	Sidepath	Long-Term	\$180,000
<b>Medium</b>	Gibson Boulevard	I-25 NB Frontage Road	University Boulevard	0.3	Sidepath	Long-Term	\$720,000
<b>Medium</b>	Golf Course Road	Homestead Circle	Paseo del Norte	1.0	Sidepath	Long-Term	\$5,450,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate
Medium	Harper Road	Barstow Street	Ventura Avenue	1.7	Sidepath	Long-Term	\$3,040,000
Medium	I-25 Frontage Road NB	Harper Drive	Del Rey Avenue	0.7	Sidepath	Long-Term	\$1,260,000
Medium	Jefferson Street	Masthead Street	Paseo del Norte WB Frontage Road	1.4	Sidepath	Long-Term	\$2,800,000
Medium	Kimmick Drive	Rosa Parks Road	Paseo del Norte	0.2	Sidepath	Plausible Near-Term	\$560,000
Medium	Montaño Road	5th Street	2nd Street	0.6	Sidepath	Long-Term	\$1,490,000
Medium	Osuna Road	2nd Street / Elwood Street	Chappell Road	0.9	Sidepath	Long-Term	\$2,190,000
Medium	Osuna Road	West of 4th Street	2nd Street	0.5	Sidepath	Long-Term	N/A
Medium	Paradise Boulevard	Chaparral Street	Paseo del Norte Northwest	0.2	Sidepath	Long-Term	\$1,290,000
Medium	Rainbow Boulevard	Unser Boulevard	Volcano Vista High School	0.8	Sidepath	Long-Term	\$1,440,000
Medium	Renaissance Boulevard	Alexander Boulevard (south of Montaño Road)	Alexander Boulevard (north of Montaño Road)	1.0	Sidepath	Long-Term	\$1,960,000
Medium	Rio Bravo Boulevard	Isleta Boulevard	2nd Street	2.5	Sidepath	Plausible Near-Term	N/A
Medium	Rosa Parks Road	Kimmick Drive	Calle Norteña	0.3	Sidepath	Plausible Near-Term	\$1,020,000
Medium	San Antonio Drive / Ellison Street	I-25 Frontage Road SB	I-25 Frontage Road NB	0.1	Sidepath	Long-Term	\$1,610,000
Medium	Sunport Boulevard	I-25 NB Frontage Road	Transport Street	0.1	Sidepath	Plausible Near-Term	\$460,000
Medium	Sunport Loop / Yale Boulevard	Randolph Road	Girard Boulevard	0.8	Sidepath	Long-Term	\$1,370,000
Medium	Tramway Boulevard	Wenonah Avenue	Central Avenue	0.2	Sidepath	Long-Term	\$220,000
Medium	Universe Boulevard	Rainbow Boulevard	Paseo del Norte	2.8	Sidepath	Long-Term	\$4,560,000
Medium	University Boulevard	Arbus Drive	Crick Avenue	1.5	Sidepath	Plausible Near-Term	\$2,110,000
Medium	University Boulevard	Clark Carr Road	Aircraft Avenue	1.3	Sidepath	Long-Term	\$2,140,000
Medium	Unser Boulevard	Irving Boulevard	Existing Sidepath	0.1	Sidepath	Plausible Near-Term	\$380,000
Medium	Ventana West Parkway	Ventana Ranch South Trail	Paseo del Norte	0.3	Sidepath	Plausible Near-Term	\$450,000
Medium	Volcano Road	98th Street	94th Street	0.3	Sidepath	Long-Term	\$390,000
Medium	Wyoming Boulevard	Bear Canyon Arroyo Trail	Spain Road	0.1	Sidepath	Plausible Near-Term	\$430,000
Medium	Comanche Road	Alexander Boulevard	Princeton Drive	0.5	Sidepath, Bike Lane	Plausible Near-Term	N/A
Medium	Montgomery Boulevard	Culture Drive	North Diversion Channel Trail	0.5	Sidepath, Bike Lane	Plausible Near-Term	N/A
Medium	San Francisco Road I-25 Crossing	Jefferson Street	I-25 NB Frontage Road	0.5	Sidepath, Paved Multi-Use Trail	Long-Term	N/A
High	Gibson Boulevard	Broadway Boulevard	I-25 NB Frontage Road	0.8	Sidepath, Separated Bike Lane	Plausible Near-Term	N/A



**Table 5: Priority Levels for Proposed Bike Boulevards**

Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Very High	Alvarado Drive	Eastern Avenue	I-40 Trail Bridge	2.2	Bike Boulevard, Bike Lane	Long-Term	\$3,250,000	\$5,480,000
Very High	Alvarado Drive / Palomas Drive	I-40 Trail Bridge	Comanche Road	1.4	Bike Boulevard	Long-Term	\$3,040,000	\$4,280,000
Very High	Buena Vista Drive	Gibson Boulevard	Central Avenue	1.6	Bike Boulevard	Long-Term	\$4,420,000	\$5,790,000
Very High	Claremont Avenue	Richmond Drive	Juan Tabo Boulevard / Paseo de las Montañas Trail	6.0	Bike Boulevard, Bike Lane	Long-Term	\$9,310,000	\$14,950,000
Very High	Crest Avenue / Eastern Avenue	Washington Street	Louisiana Boulevard	1.5	Bike Boulevard	Long-Term	\$3,090,000	\$4,440,000
Very High	Edith Bouelvard	Gibson Boulevard	Menaul Boulevard	3.4	Bike Boulevard, Bike Lane	Plausible Near-Term	\$5,860,000	\$10,610,000
Very High	Marquette Avenue / Roma Avenue	Girard Boulevard	San Pedro Drive	2.3	Bike Boulevard	Long-Term	\$4,340,000	\$6,390,000
Very High	Parsifal Street / Moon Street	Paseo de las Montañas Trail	Academy Road	3.6	Bike Boulevard, Bike Lane, Sidepath	Long-Term	\$6,490,000	\$10,150,000
Very High	Prospect Avenue / Cutler Avenue	Morningside Drive	San Pedro Drive	1.4	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,530,000	\$3,200,000
Very High	San Pablo Street / Charleston Street / Mesilla Street	Southern Avenue	Constitution Avenue	2.3	Bike Boulevard	Long-Term	\$2,720,000	\$4,730,000
Very High	Silver Avenue	2nd Street	University Boulevard	1.1	Bike Boulevard, Separated Two-Way Cycle Track, Sidepath	Plausible Near-Term	\$3,400,000	\$4,760,000
Very High	Stanford Drive / Columbia Drive	Gibson Boulevard	Central Avenue	1.6	Bike Boulevard	Plausible Near-Term	\$1,670,000	\$3,110,000
Very High	Summer Avenue / Mackland Avenue / Marble Avenue	Stanford Drive / North Diversion Channel Trail	Louisiana Boulevard / I-40 Trail Bridge	3.4	Bike Boulevard, Bike Lane	Long-Term	\$5,590,000	\$8,660,000
Very High	Trumbull Avenue	Valverde Drive	Eubank Boulevard	3.7	Bike Boulevard, Sidepath	Long-Term	\$5,390,000	\$8,580,000
Very High	Washington Street / Montclair Drive	Menaul Boulevard	Montgomery Boulevard	1.7	Bike Boulevard, Sidepath	Long-Term	\$2,690,000	\$4,020,000
Very High	Washington Street / Valverde Drive / Morningside Drive	Gibson Boulevard	Marquette Avenue	2.1	Bike Boulevard	Plausible Near-Term	\$3,200,000	\$5,020,000
Very High	Wellesley Drive / Tulane Drive / Lafayette Drive	Gibson Boulevard	Indian School Road	2.9	Bike Boulevard, Sidepath	Long-Term	\$4,940,000	\$7,470,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	10th Street	Santa Fe Avenue	Marquette Avenue	0.9	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,010,000	\$1,970,000
High	57th Street / 58th Street / 59th Street	Gonzales Road	Atrisco Drive / I-40 Trail	2.6	Bike Boulevard, Sidepath	Plausible Near-Term	\$2,180,000	\$4,420,000
High	94th Street	Benavides Road	Volcano Road	1.8	Bike Boulevard	Plausible Near-Term	\$2,210,000	\$3,830,000
High	Apache Avenue / Utah Street	Española Street	Claremont Avenue	1.0	Bike Boulevard	Long-Term	\$1,790,000	\$2,650,000
High	Bermuda Drive / Chelwood Road	Candelaria Road	Manitoba Drive	1.8	Bike Boulevard	Plausible Near-Term	\$2,030,000	\$3,590,000
High	Bluewater Road / La Bajada Road	Coors Boulevard	Atrisco Drive	1.2	Bike Boulevard, Sidepath	Plausible Near-Term	\$1,120,000	\$2,070,000
High	Brentwood Hills Boulevard / Marie Park Drive	Martha Street / Embudo Trail	Eastridge Drive / Tramway Boulevard Crossing	1.8	Bike Boulevard	Long-Term	\$2,360,000	\$3,980,000
High	Camino del Sol / Kielich Avenue / Malaguena Lane	Spain Road	Lowell Street	2.9	Bike Boulevard, Bike Lane	Plausible Near-Term	\$3,810,000	\$7,410,000
High	Chico Road	Utah Street	Shirley Street / I-40 Trail	1.6	Bike Boulevard	Long-Term	\$2,080,000	\$3,450,000
High	Cochiti Road / Shirley Street	Morris Street / Elizabeth Street	Chico Road	1.0	Bike Boulevard	Long-Term	\$2,840,000	\$3,720,000
High	Dellwood Road / Aztec Road	Pennsylvania Street	Parsifal Street	1.3	Bike Boulevard	Long-Term	\$2,250,000	\$3,410,000
High	Garfield Avenue	Buena Vista Drive	Morningside Drive	1.4	Bike Boulevard	Plausible Near-Term	\$1,400,000	\$2,630,000
High	Gonzales Road	Coors Boulevard	Old Coors Drive	0.9	Bike Boulevard	Plausible Near-Term	\$1,760,000	\$2,570,000
High	Hannett Avenue / Aspen Avenue / Haines Avenue	Stanford Drive	Washington Street	2.6	Bike Boulevard	Long-Term	\$4,070,000	\$6,380,000
High	Lagrima de Oro Road	Dona Marguerita Avenue	Morris Street	0.8	Bike Boulevard	Plausible Near-Term	\$1,590,000	\$2,320,000
High	Manitoba Drive	Juan Tabo Boulevard	Tramway Ridge Drive	1.1	Bike Boulevard, Sidepath	Plausible Near-Term	\$1,620,000	\$2,470,000
High	Marble Avenue / 1st Street	6th Street	1st Street / Lomas Boulevard	0.5	Bike Boulevard	Plausible Near-Term	\$1,980,000	\$2,390,000
High	Marquette Avenue	14th Street	6th Street	0.5	Bike Boulevard	Plausible Near-Term	\$850,000	\$1,320,000
High	Marquette Avenue / Roma Avenue	2nd Street	Edith Boulevard	0.5	Bike Boulevard, Sidepath	Plausible Near-Term	\$770,000	\$1,090,000
High	Moon Street	Susan Avenue / Southern Boulevard	Copper Avenue	0.9	Bike Boulevard	Plausible Near-Term	\$1,020,000	\$1,820,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Mountain Road	Tomasita Street	Chelwood Park Boulevard	0.9	Bike Boulevard, Bike Lane	Long-Term	\$1,450,000	\$2,450,000
High	Natalie Avenue/Ponderosa Avenue	Paseo del Nordeste/San Mateo Boulevard	Pennsylvania Street	1.7	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,390,000	\$2,990,000
High	Panmunjon Road / Hollywood Avenue / Marble Avenue	Mountain Road	14th Street	1.2	Bike Boulevard	Long-Term	\$1,900,000	\$2,950,000
High	San Isidro Street / Guadalupe Trail	Indian School Road	Grecian Avenue	2.8	Bike Boulevard	Plausible Near-Term	\$3,830,000	\$6,290,000
High	Santa Clara Avenue	Yale Boulevard	Wellesley Drive	0.8	Bike Boulevard, Bike Lane	Plausible Near-Term	\$670,000	\$1,690,000
High	Santa Fe Avenue	12th Street / Bosque Trail Access	2nd Street	0.6	Bike Boulevard	Plausible Near-Term	\$1,320,000	\$1,870,000
High	Tomasita Street / Martha Street	I-40 Trail Bridge	Gretta Street / Prospect Avenue	2.0	Bike Boulevard	Plausible Near-Term	\$1,820,000	\$3,560,000
High	Tony Sanchez Drive / Singing Arrow Avenue	Innovation Parkway	East of Dorado Place	1.6	Bike Boulevard, Bike Lane, Buffered Bike Lane	Long-Term	\$2,000,000	\$4,300,000
High	Utah Street	Southern Avenue	Marble Avenue / Charleston Street	1.9	Bike Boulevard, Bike Lane	Long-Term	\$2,530,000	\$4,330,000
High	William Street	Woodward Road	Pacific Avenue / Edith Boulevard	2.0	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,500,000	\$3,930,000
Medium	14th Street	Lomas Boulevard	N/A	0.0	Bike Boulevard Crossing	Long-Term	N/A	
Medium	15th Street	Marble Avenue	Bellamah Avenue	0.5	Bike Boulevard	Long-Term	\$530,000	\$940,000
Medium	64th Street	I-40 Trail	Ladera Drive	0.7	Bike Boulevard, Paved Multi-Use Trail	Plausible Near-Term	\$1,690,000	\$2,320,000
Medium	Anderson Avenue / Smith Avenue	Wellesley Drive	Washington Street	0.8	Bike Boulevard	Plausible Near-Term	\$690,000	\$1,420,000
Medium	Aspen Avenue	I-40 Trail	Rail Trail Access	0.6	Bike Boulevard	Long-Term	\$1,320,000	\$1,820,000
Medium	Benavides Road	Del Rey Road	Camino San Martin	1.2	Bike Boulevard	Plausible Near-Term	\$580,000	\$1,630,000
Medium	Bethel Avenue	San Jose Drain	Broadway Boulevard	0.4	Bike Boulevard	Long-Term	\$200,000	\$560,000
Medium	Camino San Martin	Snow Vista Boulevard	Gibson Boulevard	0.8	Bike Boulevard	Plausible Near-Term	\$1,400,000	\$2,070,000
Medium	Campbell Road	Paseo del Bosque Trail	Alameda Drain Trail Spur	0.9	Bike Boulevard	Plausible Near-Term	\$590,000	\$1,390,000
Medium	Carruthers Road	Westwind Street / Overlook Drive	Academy Road	0.7	Bike Boulevard	Plausible Near-Term	\$2,420,000	\$3,070,000
Medium	Del Rey Road	Benavides Road	De Anza Drive	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	\$420,000	\$1,110,000





Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Don Quixote Drive / Don Fernando Avenue	Paseo del Bosque Trail Access	Rio Grande Boulevard	0.7	Bike Boulevard	Long-Term	\$1,400,000	\$2,050,000
Medium	Eucariz Avenue	West of 98th Street	Stinson Street	1.6	Bike Boulevard, Bike Lane, Sidepath	Plausible Near-Term	\$3,140,000	\$4,550,000
Medium	Greene Avenue	Golf Course Road	Irving Boulevard	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,320,000	\$2,060,000
Medium	Herman Roser Avenue	Elizabeth Street / Tony Sanchez Drive	Juan Tabo Boulevard	0.3	Bike Boulevard, Bike Lane	Long-Term	\$1,190,000	\$1,570,000
Medium	Holbrook Street	Ramtha Street / Quintessence Road	Carmel Avenue	1.0	Bike Boulevard, Separated Bike Lane, Buffered Bike Lane, Paved Multi-Use Trail	Long-Term	\$1,220,000	\$2,560,000
Medium	Iron Avenue / 14th Street	Tingley Drive / Paseo del Bosque Trail	Silver Avenue	0.5	Bike Boulevard, Sidepath	Plausible Near-Term	\$300,000	\$650,000
Medium	Kimela Drive / Rainwater Road	Camino San Martin	Desert Breeze Drive / Trail Access	0.9	Bike Boulevard	Plausible Near-Term	\$1,460,000	\$2,240,000
Medium	Liberty Drive	Barstow Street	Ventura Street	0.5	Bike Boulevard	Plausible Near-Term	\$1,580,000	\$2,040,000
Medium	Marna Lynn Avenue / Davenport Street / Congress Avenue	Petroglyph Trailhead	Congress Avenue / Golf Course Road	1.1	Bike Boulevard	Plausible Near-Term	\$2,910,000	\$3,920,000
Medium	Mesa Arenoso Drive / Pauza Drive	Sacate Blanco Avenue	Gibson Boulevard	0.9	Bike Boulevard	Plausible Near-Term	\$1,460,000	\$2,230,000
Medium	Moon Street / Easterday Drive	Lomas Boulevard / I-40 Trail Bridge	Constitution Avenue	0.5	Bike Boulevard, Bike Lane	Plausible Near-Term	\$820,000	\$1,340,000
Medium	Rough Rider Road / Pioneer Trail	Barstow Street	Ventura Street	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,580,000	\$2,220,000
Medium	Tesuque Drive	Montaño Road	Homestead Circle	1.2	Bike Boulevard	Plausible Near-Term	\$1,910,000	\$2,980,000



**Table 6: Proposed Projects in 2024 Plan in Alphabetical Order**

Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	10th Street	Santa Fe Avenue	Marquette Avenue	0.9	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,010,000	\$1,970,000
Medium	12th Street	Sawmill Road	BNSF Rail Spur	0.3	Buffered Bike Lane	Plausible Near-Term	\$180,000	\$830,000
Medium	12th Street	BNSF Rail Spur	I-40 Frontage Road WB	0.2	Buffered Bike Lane	Long-Term	\$740,000	\$1,310,000
Medium	14th Street	Lomas Boulevard	N/A	0.0	Bike Boulevard Crossing	Long-Term	N/A	
Medium	15th Street	Marble Avenue	Bellamah Avenue	0.5	Bike Boulevard	Long-Term	\$530,000	\$940,000
High	2nd Street / 3rd Street	Marble Avenue	Candelaria Road	2.4	Buffered Bike Lane	Plausible Near-Term	\$2,070,000	\$6,560,000
Medium	2nd Street / 3rd Street	McKnight Avenue / I-40 Frontage Road EB	Arvada Ave	0.3	Buffered Bike Lane	Long-Term	\$700,000	\$1,270,000
Medium	4th Street	Ortega Road	Alameda Boulevard	0.7	Bike Lane	Plausible Near-Term	N/A	
High	57th Street / 58th Street / 59th Street	Gonzales Road	Atrisco Drive / I-40 Trail	2.6	Bike Boulevard, Sidepath	Plausible Near-Term	\$2,180,000	\$4,420,000
High	57th Street / Atrisco Drive	Ouray Road	Sequoia Road	0.6	Buffered Bike Lane	Plausible Near-Term	\$730,000	\$2,340,000
Very High	5th Street / 6th Street	Coal Avenue	I-40 Frontage Road EB	2.9	Buffered Bike Lane, Bike Lane	Plausible Near-Term	\$7,980,000	\$14,480,000
Medium	64th Street	I-40 Trail	Ladera Drive	0.7	Bike Boulevard, Paved Multi-Use Trail	Plausible Near-Term	\$1,690,000	\$2,320,000
Medium	72nd Street / Hanover Road / Estancia Drive	Fortuna Road	Illif Road	1.2	Enhanced Bike Route, Buffered Bike Lane	Plausible Near-Term	\$1,220,000	\$2,750,000
High	86th Street	98th Street	Central Avenue	1.9	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term	\$1,300,000	\$4,560,000
High	94th Street	Benavides Road	Volcano Road	1.8	Bike Boulevard	Plausible Near-Term	\$2,210,000	\$3,830,000
Medium	98th Street	Dennis Chavez Boulevard	Blake Road	1.1	Buffered Bike Lane	Plausible Near-Term	\$990,000	\$2,980,000
Medium	98th Street	Central Avenue	South of Bluewater Road	0.6	Sidepath	Long-Term	\$1,160,000	
High	98th Street / Snow Vista Boulevard	North of Rio Clara Avenue	De Vargas Road	1.4	Sidepath	Long-Term	\$2,220,000	
High	Academy Road	Seagull Street	Wyoming Boulevard	1.7	Separated Bike Lane	Long-Term	\$8,450,000	\$12,810,000
Very High	Academy Road	Wyoming Boulevard	Tramway Boulevard	4.3	Sidepath	Long-Term	\$36,930,000	
High	Airport Drive	Central Avenue	Los Volcanes Road	0.8	Buffered Bike Lane	Plausible Near-Term	\$590,000	\$2,080,000
High	Alameda Boulevard	Balloon Museum Drive	Ventura Street	5.8	Sidepath	Long-Term	\$11,360,000	



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Alameda Boulevard / NM 528	Lorretta Drive	Westside Boulevard	3.7	Sidepath	Long-Term	N/A	
High	Alameda Drain Trail	Central Avenue	Rio Grande Boulevard / I-40	0.9	Paved Multi-Use Trail	Long-Term	\$1,240,000	
Medium	Alameda Drain Trail	Rio Grande Boulevard / I-40	Matthew Avenue	0.9	Paved Multi-Use Trail	Plausible Near-Term	\$1,300,000	
High	Alameda Drain Trail	Matthew Avenue	4th Street	0.0	Paved Multi-Use Trail Crossing	Long-Term	\$1,610,000	
Medium	Alameda Drain Trail / 2nd Street	Paseo del Norte Boulevard	Alameda Boulevard	0.8	Paved Multi-Use Trail	Long-Term	N/A	
High	Alamogordo Drive / Vista Grande Drive	Bridges Avenue	Saint Joseph's Drive	1.4	Enhanced Bike Route	Plausible Near-Term	\$340,000	\$1,580,000
Very High	Alvarado Drive	Eastern Avenue	I-40 Trail Bridge	2.2	Bike Boulevard, Bike Lane	Long-Term	\$3,250,000	\$5,480,000
Very High	Alvarado Drive / Palomas Drive	I-40 Trail Bridge	Comanche Road	1.4	Bike Boulevard	Long-Term	\$3,040,000	\$4,280,000
High	Amole Arroyo Trail / Snow Vista Trail / West Gate Trail	Blake Road	Tower Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,930,000	
Medium	Amole del Norte Trail	Blake Road	Sage Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	N/A	
Medium	Amole Mesa Avenue	118th Street	Amole Arroyo Trail	1.5	Bike Lane, Bike Boulevard, Sidepath	Plausible Near-Term	\$610,000	\$2,610,000
Medium	Andalusian Avenue	Tanager Drive	102nd Street Trail Access	0.4	Enhanced Bike Route	Plausible Near-Term	\$90,000	\$420,000
Medium	Anderson Avenue / Smith Avenue	Wellesley Drive	Washington Street	0.8	Bike Boulevard	Plausible Near-Term	\$690,000	\$1,420,000
High	Apache Avenue / Utah Street	Española Street	Claremont Avenue	1.0	Bike Boulevard	Long-Term	\$1,790,000	\$2,650,000
Medium	Arenal Road	Atrisco Riverside Drain	Isleta Boulevard	0.7	Enhanced Bike Route	Plausible Near-Term	N/A	
Medium	Aspen Avenue	I-40 Trail	Rail Trail Access	0.6	Bike Boulevard	Long-Term	\$1,320,000	\$1,820,000
Medium	Atrisco Drain	Arenal Road	Isleta Boulevard	0.2	Paved Multi-Use Trail	Long-Term	N/A	
High	Atrisco Drive	Central Avenue	I-40 Trail Bridge	1.7	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$990,000	\$2,850,000
High	Atrisco Riverside Drain	Bridge Boulevard	Central Avenue	1.7	Paved Multi-Use Trail	Long-Term	\$2,390,000	
Medium	Atrisco Riverside Drain	Rio Bravo Boulevard	Arenal Road	1.6	Paved Multi-Use Trail	Long-Term	N/A	
Medium	Atrisco Vista Boulevard	Double Eagle Airport Road	Paseo del Norte	3.9	Sidepath	Long-Term	\$5,450,000	
Medium	Avalon Trail	90th Street	Bluewater Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,320,000	



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
<b>Very High</b>	Avenida Cesar Chavez	Broadway Boulevard	Yale Boulevard	1.1	Separated Bike Lane	Plausible Near-Term	\$2,100,000	\$4,940,000
<b>High</b>	Avenida Cesar Chavez	Walter Street	Langham Street	0.3	Separated Bike Lane	Long-Term	\$1,200,000	\$1,200,000
<b>High</b>	Avenida Cesar Chavez Railroad Overpass	3rd Street	Broadway Boulevard	0.4	Sidepath	Long-Term	N/A	
<b>High</b>	Avenida Dolores Huerta	La Vega Drive	Paseo del Bosque Trail	0.4	Sidepath	Long-Term	N/A	
<b>Medium</b>	Aztec Road / Princeton Drive	Candelaria Road / Comanche Road	North Diversion Channel Trail	1.1	Bike Lane, Bike Boulevard	Plausible Near-Term	\$1,770,000	\$3,540,000
<b>Medium</b>	Balloon Fiesta Northwest Access Trail	North Diversion Channel	I-25	2.2	Sidepath	Long-Term	\$3,040,000	
<b>Medium</b>	Balloon Museum Drive	Jefferson Street / Balloon Museum Drive	San Diego Avenue	0.1	Sidepath	Long-Term	\$210,000	
<b>High</b>	Barcelona Road	Coors Boulevard	Isleta Boulevard	1.1	Bike Lane	Long-Term	N/A	
<b>Medium</b>	Barstow Street	Alameda Boulevard	Trail Access	0.2	Bike Lane	Plausible Near-Term	\$60,000	\$360,000
<b>Medium</b>	Barstow Street	Eagle Rock Ave / Trail Access	Florence Avenue	0.3	Bike Lane	Long-Term	\$70,000	\$70,000
<b>Medium</b>	Barstow Street	Signal Avenue	Alameda Boulevard	0.1	Separated Bike Lane	Long-Term	\$30,000	\$30,000
<b>High</b>	Barstow Street	Harper Road	Signal Road	1.8	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$2,010,000	\$5,960,000
<b>Very High</b>	Bear Canyon Arroyo Trail	Wyoming Boulevard	Morris Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,350,000	
<b>Medium</b>	Bear Canyon Trail	Jefferson Street	N/A	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,030,000	
<b>Medium</b>	Bellamah Avenue	West of 15th Street	12th Street	0.2	Buffered Bike Lane	Long-Term	\$80,000	\$410,000
<b>Medium</b>	Benavides Road	Del Rey Road	Camino San Martin	1.2	Bike Boulevard	Plausible Near-Term	\$580,000	\$1,630,000
<b>High</b>	Bermuda Drive / Chelwood Road	Candelaria Road	Manitoba Drive	1.8	Bike Boulevard	Plausible Near-Term	\$2,030,000	\$3,590,000
<b>Medium</b>	Bethel Avenue	San Jose Drain	Broadway Boulevard	0.4	Bike Boulevard	Long-Term	\$200,000	\$560,000
<b>Medium</b>	Black Arroyo Trail	Ellison Road	Seven Bar Loop Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,320,000	
<b>Medium</b>	Blake Road	Isleta Drain (LRBS)	Isleta Boulevard (LRBS)	1.7	Bike Lane	Long-Term	N/A	
<b>Medium</b>	Blake Road	Unser Boulevard	Blake Circle	0.5	Buffered Bike Lane	Long-Term	\$420,000	\$620,000
<b>High</b>	Blake Road / De Anza Drive	98th Street / 86th Street	Unser Boulevard	1.3	Buffered Bike Lane	Plausible Near-Term	\$1,410,000	\$3,470,000
<b>High</b>	Bluewater Road	98th Street	Camino Azul / Coors Boulevard	2.0	Buffered Bike Lane	Plausible Near-Term	\$1,330,000	\$5,030,000
<b>Medium</b>	Bluewater Road	Camino Azul	East of Coors Boulevard	0.1	Separated Bike Lane	Long-Term	\$730,000	\$730,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Bluewater Road / La Bajada Road	Coors Boulevard	Atrisco Drive	1.2	Bike Boulevard, Sidepath	Plausible Near-Term	\$1,120,000	\$2,070,000
Medium	Bobby Foster Road	Broadway Boulevard	Los Picaros Road	0.5	Buffered Bike Lane	Long-Term	N/A	
Medium	Bobby Foster Road / Los Picaros Road	University Boulevard	Los Picaros Road	8.0	Sidepath	Plausible Near-Term	\$11,250,000	
Medium	Bosque Plaza Lane	Winter Haven Road	La Orilla Road	0.1	Sidepath	Long-Term	\$140,000	
High	Brentwood Hills Boulevard / Marie Park Drive	Martha Street / Embudo Trail	Eastridge Drive / Tramway Boulevard Crossing	1.8	Bike Boulevard	Long-Term	\$2,360,000	\$3,980,000
Very High	Broadway Boulevard	Coal Avenue	Lomas Boulevard	0.9	Buffered Bike Lane	Plausible Near-Term	\$2,060,000	\$4,300,000
Medium	Broadway Boulevard	Menaul Boulevard	Candelaria Road	0.6	Separated Bike Lane	Plausible Near-Term	\$1,060,000	\$2,510,000
Very High	Buena Vista Drive	Gibson Boulevard	Central Avenue	1.6	Bike Boulevard	Long-Term	\$4,420,000	\$5,790,000
Medium	Calabacillas Arroyo Spur Trail	Calabacillas Arroyo	Unser Boulevard	1.4	Paved Multi-Use Trail	Long-Term	\$1,930,000	
High	Calabacillas Arroyo Trail	Universe Boulevard	Eagle Ranch Road	4.4	Paved Multi-Use Trail	Long-Term	\$6,230,000	
Medium	Calle Norteña	Taylor Ranch Drive / Taylor Ranch Road	Golf Course Road	0.6	Buffered Bike Lane	Plausible Near-Term	\$520,000	\$1,620,000
Medium	Camino de la Sierra / Arcadia Road	Tramway Trail	Copper Avenue	2.0	Enhanced Bike Route	Plausible Near-Term	\$470,000	\$2,230,000
Medium	Camino de la Sierra / Glenwood Hills Drive	Candelaria Road	Emudito Trailhead	1.8	Enhanced Bike Route	Plausible Near-Term	\$410,000	\$1,970,000
Medium	Camino de la Sierra / Lomas Boulevard	Monte Largo Drive / Monte Largo Drive	Indian School Road	0.5	Enhanced Bike Route	Plausible Near-Term	\$130,000	\$600,000
High	Camino del Sol / Kielich Avenue / Malaguena Lane	Spain Road	Lowell Street	2.9	Bike Boulevard, Bike Lane	Plausible Near-Term	\$3,810,000	\$7,410,000
Medium	Camino San Martin	Snow Vista Boulevard	Gibson Boulevard	0.8	Bike Boulevard	Plausible Near-Term	\$1,400,000	\$2,070,000
Medium	Campbell Road	Paseo del Bosque Trail	Alameda Drain Trail Spur	0.9	Bike Boulevard	Plausible Near-Term	\$590,000	\$1,390,000
Very High	Candelaria Road	San Isidro Street	I-40 Frontage Road SB	2.4	Separated Bike Lane	Plausible Near-Term	\$3,300,000	\$9,340,000
Medium	Candelaria Road	Tramway Boulevard	Palo Alto Drive	0.1	Separated Bike Lane	Long-Term	\$720,000	\$720,000
Medium	Candelaria Road	I-25 Frontage Road SB	Princeton Drive	0.3	Separated Two-Way Cycle Track	Long-Term	\$1,240,000	\$2,130,000
Medium	Carlisle Boulevard	Calle del Ranchero	Constitution Road	0.1	Bike Lane	Plausible Near-Term	\$610,000	\$710,000
Medium	Carruthers Road	Westwind Street / Overlook Drive	Academy Road	0.7	Bike Boulevard	Plausible Near-Term	\$2,420,000	\$3,070,000





Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Cedarbrook Avenue / Larchmont Drive / Montgomery Boulevard	Tramway Boulevard / Manitoba Drive	Glenwood Hills Drive	1.1	Enhanced Bike Route, Sidepath	Plausible Near-Term	\$430,000	\$1,290,000
High	Central Avenue	90th Street	Unser Transit Center	2.9	Sidepath	Long-Term	\$4,970,000	
Medium	Chacoma Place / San Pasquale Avenue	El Vado / East of Central Avenue	Laguna Boulevard	0.9	Enhanced Bike Route	Plausible Near-Term	\$210,000	\$990,000
Medium	Chavez Road	Rio Grande Boulevard	4th Street	1.0	Sidepath	Long-Term	N/A	
Very High	Chelwood Park Boulevard	Copper Avenue	Candelaria Road	2.6	Bike Lane	Plausible Near-Term	\$1,520,000	\$5,580,000
High	Chico Road	Utah Street	Shirley Street / I-40 Trail	1.6	Bike Boulevard	Long-Term	\$2,080,000	\$3,450,000
Medium	Chico Road	Eubank Boulevard	Morris Street	0.5	Buffered Bike Lane	Plausible Near-Term	\$480,000	\$1,400,000
Very High	Claremont Avenue	Richmond Drive	Juan Tabo Boulevard / Paseo de las Montañas Trail	6.0	Bike Boulevard, Bike Lane	Long-Term	\$9,310,000	\$14,950,000
High	Cloudview Avenue	Chelwood Park Boulevard	Lomas Verdes Avenue / Panorama Place	0.5	Bike Lane	Plausible Near-Term	\$210,000	\$1,230,000
Medium	Cloudview Avenue / Encantado Road	Lomas Verdes Avenue / Panorama Place	Avital Northeast Drive	0.1	Separated Bike Lane	Long-Term	\$760,000	\$760,000
High	Coal Avenue	Elm Street	Oak Street	0.1	Separated Bike Lane	Long-Term	\$1,090,000	\$1,090,000
High	Cochiti Road / Shirley Street	Morris Street / Elizabeth Street	Chico Road	1.0	Bike Boulevard	Long-Term	\$2,840,000	\$3,720,000
Very High	Comanche Road	San Mateo Boulevard	East of Tramway Boulevard	5.5	Separated Bike Lane, Enhanced Bike Route, Bike Lane	Plausible Near-Term	\$6,870,000	\$20,160,000
Medium	Comanche Road	Alexander Boulevard	Princeton Drive	0.5	Sidepath, Bike Lane	Plausible Near-Term	N/A	
Very High	Constitution Avenue	Pennsylvania Street	Indian School Road	3.4	Bike Lane	Plausible Near-Term	\$2,830,000	\$9,460,000
Very High	Constitution Avenue	Vassar Drive	Mesilla Street	1.6	Bike Lane, Buffered Bike Lane, Buffered Bike Lane One Direction	Plausible Near-Term	\$2,080,000	\$5,150,000
High	Coors Boulevard	Blake Road (LRBS)	Bridge Boulevard (LRBS)	2.3	Buffered Bike Lane	Long-Term	N/A	
Medium	Coors Boulevard	Gun Club Road	Blake Road	1.7	Separated Bike Lane	Plausible Near-Term	N/A	
Medium	Coors Frontage Road	Southwestern Polytechnic Institute Road	Paseo del Norte Trail	0.4	Enhanced Bike Route	Plausible Near-Term	\$100,000	\$440,000
High	Copper Avenue	Wyoming Boulevard	Eubank Boulevard	1.0	Bike Lane	Plausible Near-Term	\$970,000	\$2,900,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Copper Avenue	Tomasita Street / I-40 Trail Bridge	Copper Trailhead	2.3	Buffered Bike Lane, Bike Boulevard, Enhanced Bike Route	Plausible Near-Term	\$1,440,000	\$3,990,000
Medium	Corrales Main / La Orilla Outlet Northwest Trail	Coors Trail	Southwestern Polytechnic Institute Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$580,000	
Very High	Crest Avenue / Eastern Avenue	Washington Street	Louisiana Boulevard	1.5	Bike Boulevard	Long-Term	\$3,090,000	\$4,440,000
Medium	De Vargas Road	Osprey Drive	Cockatiel Drive	0.2	Buffered Bike Lane	Long-Term	\$50,000	\$50,000
Medium	Del Mastro Drive	Del Rey Road	De Vargas Road	0.5	Bike Lane	Plausible Near-Term	\$180,000	\$1,080,000
Medium	Del Rey Road	Benavides Road	De Anza Drive	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	\$420,000	\$1,110,000
High	Dellwood Road / Aztec Road	Pennsylvania Street	Parsifal Street	1.3	Bike Boulevard	Long-Term	\$2,250,000	\$3,410,000
Medium	Dellyne Avenue	West of Unser Boulevard	Coors Boulevard	1.1	Buffered Bike Lane	Plausible Near-Term	\$730,000	\$2,890,000
Medium	Dellyne Avenue	Oxnard Road	Winter Haven Road	0.3	Separated Bike Lane	Long-Term	\$1,390,000	\$1,390,000
High	Diversion Channel Trail UNM Connection	Tucker Avenue	Yale Boulevard	0.2	Paved Multi-Use Trail	Long-Term	\$250,000	
High	Doctor Martin Luther King Junior Avenue	Arno Street	Oak Street	0.4	Separated Bike Lane	Plausible Near-Term	\$1,460,000	\$1,740,000
High	Domingo Baca Trail	San Pedro Drive	Ventura Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,790,000	
Medium	Don Quixote Drive / Don Fernando Avenue	Paseo del Bosque Trail Access	Rio Grande Boulevard	0.7	Bike Boulevard	Long-Term	\$1,400,000	\$2,050,000
High	Dorado Place / Wenonah Avenue	Wenonah Avenue	Central Avenue	0.3	Buffered Bike Lane, Bike Boulevard	Plausible Near-Term	\$440,000	\$910,000
Medium	Eagle Ranch Road	All Saints Road	Paradise Boulevard	0.2	Sidepath	Long-Term	\$940,000	
Very High	Edith Bouelvard	Gibson Boulevard	Menaul Boulevard	3.4	Bike Boulevard, Bike Lane	Plausible Near-Term	\$5,860,000	\$10,610,000
Medium	Edith Boulevard	El Pueblo Road	Alameda Boulevard	0.8	Enhanced Bike Route	Plausible Near-Term	\$1,220,000	\$1,920,000
Medium	El Pueblo Road	North Diversion Channel Trail	West of Tiburon Street	0.4	Sidepath	Long-Term	\$550,000	
Medium	Embudito Drive / Hugh Graham Road	Tramway Trail	Glenwood Hills Drive / Camino de la Sierra	0.8	Enhanced Bike Route	Plausible Near-Term	\$200,000	\$920,000
Medium	Embudo Channel Trail	Cutler Avenue	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$290,000	
Medium	Encantado Road	Avital Northeast Drive	Camino de la Sierra	0.6	Enhanced Bike Route, Bike Lane	Plausible Near-Term	\$180,000	\$880,000
Very High	Eubank Boulevard	Montgomery Boulevard	San Francisco Road	5.3	Separated Bike Lane	Long-Term	\$12,850,000	\$19,620,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Eucariz Avenue	West of 98th Street	Stinson Street	1.6	Bike Boulevard, Bike Lane, Sidepath	Plausible Near-Term	\$3,140,000	\$4,550,000
Medium	Florence Avenue	Louisiana Boulevard	Barstow Road	1.0	Bike Lane	Long-Term	\$310,000	\$1,340,000
Medium	Forest Hills Drive	I-25 NB Frontage Road	Barnhart Street	0.2	Buffered Bike Lane	Long-Term	\$50,000	\$50,000
Medium	Fortuna Road	Ben E Keith Way	64th Street	0.7	Buffered Bike Lane	Plausible Near-Term	\$290,000	\$1,700,000
Medium	Fortuna Road	Estancia Drive	64th Street	0.2	Separated Bike Lane	Long-Term	\$990,000	\$990,000
Medium	Fortuna Road Trail	Unser Boulevard	Ben E Keith Way	0.4	Paved Multi-Use Trail	Long-Term	\$560,000	
Medium	Gallant Fox Road / Raton Avenue	Juan Tabo Boulevard	Wagon Train Drive	0.6	Enhanced Bike Route, Paved Multi-Use Trail	Plausible Near-Term	\$470,000	\$950,000
High	Garfield Avenue	Buena Vista Drive	Morningside Drive	1.4	Bike Boulevard	Plausible Near-Term	\$1,400,000	\$2,630,000
Medium	Gibson Boulevard	Eubank Boulevard	Innovation Parkway	0.3	Bike Lane	Long-Term	\$360,000	\$360,000
Medium	Gibson Boulevard	Camino San Martin	Spring Flower Place	0.1	Separated Bike Lane	Long-Term	\$750,000	\$750,000
Medium	Gibson Boulevard	De Anza Drive	Unser Boulevard / Spring Flower Road	1.1	Sidepath	Long-Term	\$1,510,000	
Medium	Gibson Boulevard	Buena Vista Drive	Yale Boulevard	0.1	Sidepath	Long-Term	\$180,000	
Medium	Gibson Boulevard	I-25 NB Frontage Road	University Boulevard	0.3	Sidepath	Long-Term	\$720,000	
High	Gibson Boulevard	Broadway Boulevard	I-25 NB Frontage Road	0.8	Sidepath, Separated Bike Lane	Plausible Near-Term	N/A	
High	Girard Boulevard (Gaps)	Central Avenue	Indian School Road	0.2	Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$670,000	\$1,100,000
Medium	Golf Course Road	Homestead Circle	Paseo del Norte	1.0	Sidepath	Long-Term	\$5,450,000	
High	Gonzales Road	Coors Boulevard	Old Coors Drive	0.9	Bike Boulevard	Plausible Near-Term	\$1,760,000	\$2,570,000
Medium	Greene Avenue	Golf Course Road	Irving Boulevard	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,320,000	\$2,060,000
Medium	Griegos Drain	Campbell Road	Candelaria Road	0.2	Paved Multi-Use Trail	Long-Term	\$350,000	
Medium	Griegos Drain	Montaño Road	Chavez Road	1.1	Paved Multi-Use Trail	Long-Term	\$1,490,000	
Medium	Griegos Road	5th Street	Las Hermanas Street	0.4	Buffered Bike Lane, Bike Lane	Plausible Near-Term	\$1,140,000	\$2,130,000
High	Hannett Avenue / Aspen Avenue / Haines Avenue	Stanford Drive	Washington Street	2.6	Bike Boulevard	Long-Term	\$4,070,000	\$6,380,000
Medium	Harper Road	Barstow Street	Ventura Avenue	1.7	Sidepath	Long-Term	\$3,040,000	
Medium	Herman Roser Avenue	Elizabeth Street / Tony Sanchez Drive	Juan Tabo Boulevard	0.3	Bike Boulevard, Bike Lane	Long-Term	\$1,190,000	\$1,570,000
Medium	Holbrook Street	Ramtha Street / Quintessence Road	Carmel Avenue	1.0	Bike Boulevard, Separated Bike Lane,	Long-Term	\$1,220,000	\$2,560,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
					Buffered Bike Lane, Paved Multi-Use Trail			
Medium	Homestead Circle	Taylor Ranch Road	Los Alisos Place	0.1	Bike Lane	Plausible Near-Term	\$330,000	\$500,000
Medium	I-25 Frontage Road NB	Harper Drive	Del Rey Avenue	0.7	Sidepath	Long-Term	\$1,260,000	
Medium	I-40 Trail	Gabaldon Drive	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$290,000	
Medium	Iliff Road	Estancia Drive	Atrisco Dr	0.5	Separated Bike Lane, Bike Lane	Long-Term	\$670,000	\$1,930,000
Medium	Iliff Road / 72nd Street	I-40 Trail Bridge	Ladera Drive	0.7	Buffered Bike Lane	Plausible Near-Term	\$270,000	\$1,580,000
Medium	Indian School Road	Americas Parkway	Uptown Loop Road	0.3	Bike Lane	Plausible Near-Term	\$990,000	\$1,570,000
Medium	Indian School Road	Rio Grande Boulevard	12th Street	0.7	Buffered Bike Lane	Plausible Near-Term	\$830,000	\$1,400,000
Medium	Indian School Road	Cumbres Street	Embudo Trailhead	0.9	Enhanced Bike Route, Bike Lane	Plausible Near-Term	\$230,000	\$1,120,000
Very High	Indian School Road	Broadway Boulevard	San Pedro Drive	3.8	Separated Bike Lane	Plausible Near-Term	\$5,280,000	\$14,930,000
Medium	Indian School Road	Eastridge Drive / Constitution Avenue	Cumbres Street	0.5	Separated Bike Lane	Plausible Near-Term	\$690,000	\$1,970,000
High	Indian School Road	West of Wyoming Boulevard	Juan Tabo Boulevard	2.1	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$2,730,000	\$7,420,000
Medium	Iron Avenue / 14th Street	Tingley Drive / Paseo del Bosque Trail	Silver Avenue	0.5	Bike Boulevard, Sidepath	Plausible Near-Term	\$300,000	\$650,000
Medium	Irving Boulevard	Universe Boulevard	La Paz Drive	0.6	Buffered Bike Lane	Plausible Near-Term	\$1,030,000	\$2,660,000
Medium	Irving Boulevard	Rio Los Pinos Drive/Timan Avenue	Golf Course Road	0.8	Separated Bike Lane	Plausible Near-Term	\$870,000	\$2,810,000
High	Irving Boulevard	Unser Boulevard	Golf Course Road	4.5	Sidepath	Long-Term	\$7,440,000	
High	Isleta Drain	Central Avenue	Rio Bravo Boulevard	4.3	Paved Multi-Use Trail	Long-Term	N/A	
Medium	Jefferson Street	Montgomery Boulevard	McLeod Road	0.5	Buffered Bike Lane	Plausible Near-Term	\$910,000	\$2,080,000
Medium	Jefferson Street	Masthead Street	Paseo del Norte WB Frontage Road	1.4	Sidepath	Long-Term	\$2,800,000	
High	Jewett Drive / Michael Hughes Drive / Durant Avenue	Tramway Boulevard	Monte Largo Drive / Lomas Blvd	0.9	Enhanced Bike Route	Plausible Near-Term	\$800,000	\$1,600,000
Medium	Juan Tabo Boulevard	Cicadia Road	Horseshoe Trail	0.4	Buffered Bike Lane	Plausible Near-Term	\$260,000	\$1,170,000
Medium	Kachina Street	San Ildefonso Drive	Taylor Ranch Road	0.7	Bike Lane, Enhanced Bike Route	Plausible Near-Term	\$860,000	\$2,210,000
Medium	Kayenta Street	South of Irving Boulevard	McMahon Boulevard	0.8	Buffered Bike Lane	Plausible Near-Term	\$800,000	\$2,680,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Kimela Drive / Rainwater Road	Camino San Martin	Desert Breeze Drive / Trail Access	0.9	Bike Boulevard	Plausible Near-Term	\$1,460,000	\$2,240,000
Medium	Kimmick Drive	Unser Boulevard	Paseo del Norte	0.6	Bike Lane	Long-Term	\$430,000	\$430,000
Medium	Kimmick Drive	Rosa Parks Road	Paseo del Norte	0.2	Sidepath	Plausible Near-Term	\$560,000	
Medium	La Cueva Channel / San Diego Avenue Trail	Balloon Museum Drive	Wyoming Boulevard	2.0	Paved Multi-Use Trail	Long-Term	N/A	
Medium	La Orilla Road	West of Coors Boulevard	Bosque Plaza Lane	0.3	Separated Bike Lane, Sidepath	Long-Term	\$1,040,000	\$1,040,000
High	Ladera Drive	Arroyo Vista Boulevard	Ouray Road	2.5	Separated Bike Lane	Long-Term	\$10,860,000	\$17,210,000
High	Lagrima de Oro Road	Dona Marguerita Avenue	Morris Street	0.8	Bike Boulevard	Plausible Near-Term	\$1,590,000	\$2,320,000
Medium	Laguna Boulevard	Kit Carson Avenue	14th Street	0.6	Enhanced Bike Route	Plausible Near-Term	\$450,000	\$1,010,000
Very High	Las Lomas Road / Campus Boulevard	University Boulevard	Monte Vista Boulevard	1.0	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term	\$1,290,000	\$3,010,000
Medium	Las Lomitas Drive	Vista Del Norte Drive	El Pueblo Road	0.7	Bike Lane	Plausible Near-Term	\$260,000	\$1,550,000
Medium	Laurelwood Parkway	Hanover Road / I-40 Trail Access	Ladera Drive	0.4	Buffered Bike Lane	Plausible Near-Term	\$180,000	\$1,020,000
Very High	Lead Avenue / Coal Avenue	Broadway Boulevard	Elm Street	0.8	Separated Bike Lane	Plausible Near-Term	\$1,900,000	\$2,420,000
Medium	Liberty Drive	Barstow Street	Ventura Street	0.5	Bike Boulevard	Plausible Near-Term	\$1,580,000	\$2,040,000
High	Lomas Boulevard	6th Street	BNSF Rail Corridor	0.4	Sidepath	Long-Term	\$2,300,000	
Medium	Lomas Channel Trail	Hupmobile Drive	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$290,000	
Medium	Los Volcanes Road	Unser Boulevard	Airport Drive	0.5	Bike Lane	Plausible Near-Term	\$450,000	\$670,000
Very High	Louisiana Boulevard	Gibson Boulevard	Central Avenue	1.2	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term	\$2,630,000	\$5,740,000
High	Louisiana Boulevard	Burlison Drive	Modesto Avenue	2.5	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term	\$2,590,000	\$8,020,000
Medium	Louisiana Boulevard	Modesto Avenue	Elena Drive	0.7	Separated Bike Lane	Long-Term	\$150,000	\$150,000
High	Manitoba Drive	Juan Tabo Boulevard	Tramway Ridge Drive	1.1	Bike Boulevard, Sidepath	Plausible Near-Term	\$1,620,000	\$2,470,000
Medium	Manitoba Drive	Tramway Ridge Drive	Larchmont Drive	0.2	Separated Bike Lane, Bike Lane	Long-Term	\$870,000	\$970,000
High	Marble Avenue / 1st Street	6th Street	1st Street / Lomas Boulevard	0.5	Bike Boulevard	Plausible Near-Term	\$1,980,000	\$2,390,000
Medium	Mariposa Basin Recreation Trail	San Ildefonso Drive	Mojave Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$580,000	





Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Mariposa Diversion Trail	Unser Boulevard	Kachina Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,640,000	
Medium	Marna Lynn Avenue / Davenport Street / Congress Avenue	Petroglyph Trailhead	Congress Avenue / Golf Course Road	1.1	Bike Boulevard	Plausible Near-Term	\$2,910,000	\$3,920,000
High	Marquette Avenue	14th Street	6th Street	0.5	Bike Boulevard	Plausible Near-Term	\$850,000	\$1,320,000
Very High	Marquette Avenue / Roma Avenue	Girard Boulevard	San Pedro Drive	2.3	Bike Boulevard	Long-Term	\$4,340,000	\$6,390,000
High	Marquette Avenue / Roma Avenue	2nd Street	Edith Boulevard	0.5	Bike Boulevard, Sidepath	Plausible Near-Term	\$770,000	\$1,090,000
Medium	McKinney Drive	Academy Road	Forest Hills Drive	0.8	Buffered Bike Lane, Bike Lane	Plausible Near-Term	\$610,000	\$2,170,000
High	McLeod Road	Jefferson Street	San Pedro Drive	0.9	Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$1,070,000	\$3,090,000
Medium	Mesa Arenoso Drive / Pauza Drive	Sacate Blanco Avenue	Gibson Boulevard	0.9	Bike Boulevard	Plausible Near-Term	\$1,460,000	\$2,230,000
Medium	Mill Pond Road Trail	Aspen Avenue	I-40 Trail	0.2	Paved Multi-Use Trail	Long-Term	\$320,000	
Medium	Mission Avenue	Alexander Boulevard	Chappel Road	0.6	Buffered Bike Lane	Plausible Near-Term	\$410,000	\$1,890,000
Medium	Mojave Street	Atrisco Drive	Homestead Circle	1.0	Enhanced Bike Route, Bike Lane, Paved Multi-Use Trail	Plausible Near-Term	\$300,000	\$1,380,000
Medium	Monachos Road / Via Posada Street	Juan Tabo Boulevard	Wagon Train Drive / Stagecoach Road	0.7	Enhanced Bike Route, Paved Multi-Use Trail	Plausible Near-Term	\$400,000	\$940,000
High	Montaño Road	Unser Boulevard	Winter Haven Road	2.0	Separated Bike Lane	Long-Term	\$9,220,000	\$14,290,000
Medium	Montaño Road	5th Street	2nd Street	0.6	Sidepath	Long-Term	\$1,490,000	
Medium	Monte Largo Drive / Menaul Boulevard	Lomas Boulevard / Monte Verde Drive	Tramway Trail	1.7	Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$1,000,000	\$4,290,000
High	Monte Vista Boulevard	Central Avenue	Lomas Boulevard	0.7	Buffered Bike Lane	Plausible Near-Term	\$1,140,000	\$2,470,000
Medium	Montgomery Boulevard	Culture Drive	North Diversion Channel Trail	0.5	Sidepath, Bike Lane	Plausible Near-Term	N/A	
High	Moon Street	Susan Avenue / Southern Boulevard	Copper Avenue	0.9	Bike Boulevard	Plausible Near-Term	\$1,020,000	\$1,820,000
Medium	Moon Street	Matthew Avenue	Veranda Road	0.1	Bike Lane	Plausible Near-Term	\$340,000	\$550,000
Medium	Moon Street / Easterday Drive	Lomas Boulevard / I-40 Trail Bridge	Constitution Avenue	0.5	Bike Boulevard, Bike Lane	Plausible Near-Term	\$820,000	\$1,340,000
High	Morris Street	Candelaria Road	Montgomery Boulevard	1.0	Bike Lane	Plausible Near-Term	\$1,270,000	\$3,240,000
High	Morris Street	Tomasita Street	Constitution Avenue	0.8	Bike Lane, Bike Boulevard	Plausible Near-Term	\$630,000	\$1,910,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Mountain Road	Tomasita Street	Chelwood Park Boulevard	0.9	Bike Boulevard, Bike Lane	Long-Term	\$1,450,000	\$2,450,000
High	Mountain Road	Broadway Boulevard	Edith Boulevard	0.2	Bike Lane	Plausible Near-Term	\$650,000	\$960,000
High	Natalie Avenue/Ponderosa Avenue	Paseo del Nordeste/San Mateo Boulevard	Pennsylvania Street	1.7	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,390,000	\$2,990,000
Medium	North Diversion Channel Trail Extension	Balloon Museum Drive	Edith Boulevard	0.9	Paved Multi-Use Trail	Long-Term	\$1,270,000	
Medium	North Domingo Baca Trail	Barstow Street	Ventura Street	0.5	Paved Multi-Use Trail	Long-Term	\$730,000	
High	Osuna Road	West of San Mateo Boulevard	East of San Mateo Boulevard	0.1	Separated Bike Lane	Long-Term	\$580,000	\$580,000
Medium	Osuna Road	2nd Street / Elwood Street	Chappell Road	0.9	Sidepath	Long-Term	\$2,190,000	
Medium	Osuna Road	West of 4th Street	2nd Street	0.5	Sidepath	Long-Term	N/A	
High	Ouray Road	57th Street	Coors Boulevard NB Frontage Road	0.2	Separated Bike Lane	Long-Term	\$1,490,000	\$1,490,000
High	Ouray Road / Bob McCannon Parkway	Unser Boulevard	Alamogordo Drive	1.9	Buffered Bike Lane	Plausible Near-Term	\$1,890,000	\$5,450,000
High	Panmunjon Road / Hollywood Avenue / Marble Avenue	Mountain Road	14th Street	1.2	Bike Boulevard	Long-Term	\$1,900,000	\$2,950,000
Medium	Paradise Boulevard	Chaparral Street	Paseo del Norte Northwest	0.2	Sidepath	Long-Term	\$1,290,000	
Very High	Parsifal Street / Moon Street	Paseo de las Montañas Trail	Academy Road	3.6	Bike Boulevard, Bike Lane, Sidepath	Long-Term	\$6,490,000	\$10,150,000
Medium	Paseo de la Mesa	Atrisco Vista Boulevard	Paseo de la Mesa Trailhead	0.1	Paved Multi-Use Trail	Long-Term	\$220,000	
Very High	Paseo de las Montañas Trail / Embudo Recreation Trail	Hendola Drive	Marie Park Drive	0.0	Paved Multi-Use Trail Crossing	Long-Term	\$7,910,000	
Very High	Paseo del Nordeste Trail	Carlisle Boulevard	Pennsylvania Street	0.0	Paved Multi-Use Trail Crossing	Long-Term	\$5,120,000	
Medium	Paseo del Norte	Calle Norteña	Golf Course Road	0.8	Separated Bike Lane	Plausible Near-Term	\$600,000	\$1,160,000
Very High	Paseo del Norte	I-25 Frontage Road NB	Eubank Boulevard	4.6	Sidepath	Long-Term	N/A	
High	Paseo del Norte	Universe Boulevard	Eagle Ranch Road	4.9	Sidepath	Long-Term	\$8,690,000	
Medium	Paseo del Norte Trail	Rio Grande Boulevard	El Pueblo Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$440,000	



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Pennsylvania Street	South of Comanche Road	Montgomery Boulevard	0.7	Buffered Bike Lane	Plausible Near-Term	\$840,000	\$2,090,000
High	Pennsylvania Street	Marble Avenue	Menaul Boulevard	1.5	Buffered Bike Lane, Bike Lane, Separated Bike Lane	Plausible Near-Term	\$2,080,000	\$4,990,000
Medium	Piedras Marcadas Park Trail	Golf Course Road	Rancho Sereno Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$1,320,000	
Medium	Piedras Marcadas Trail	Ventana Ranch Road	Universe Boulevard	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$2,640,000	
High	Pino Arroyo Trail / Quintessence Trail	San Pedro Drive	Toulon Drive	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$4,110,000	
Very High	Prospect Avenue / Cutler Avenue	Morningside Drive	San Pedro Drive	1.4	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,530,000	\$3,200,000
Medium	Rainbow Boulevard	Unser Boulevard	Volcano Vista High School	0.8	Sidepath	Long-Term	\$1,440,000	
High	Randolph Road / Alamo Avenue	University Boulevard	Girard Boulevard	1.1	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term	\$990,000	\$2,840,000
Medium	Renaissance Boulevard	Alexander Boulevard (south of Montaña Road)	Alexander Boulevard (north of Montaña Road)	1.0	Sidepath	Long-Term	\$1,960,000	
Medium	Richmond Drive	Menaul Boulevard	Candelaria Road	0.5	Bike Lane	Plausible Near-Term	\$480,000	\$1,430,000
Medium	Rio Bravo Boulevard	Isleta Boulevard	2nd Street	2.5	Sidepath	Plausible Near-Term	N/A	
Medium	Rockwood Road	Rolling Rock Place / Unser Boulevard Access	Seven Falls Place / Trail Access	0.4	Enhanced Bike Route	Plausible Near-Term	\$100,000	\$440,000
Medium	Rosa Parks Road	Unser Boulevard	Calle Norteña	0.6	Bike Lane	Long-Term	\$130,000	\$130,000
Medium	Rosa Parks Road	Kimmick Drive	Calle Norteña	0.3	Sidepath	Plausible Near-Term	\$1,020,000	
Medium	Rough Rider Road / Pioneer Trail	Barstow Street	Ventura Street	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,580,000	\$2,220,000
Medium	Rover Avenue	Tramway Boulevard	Monte Largo Drive	0.3	Bike Lane	Plausible Near-Term	\$400,000	\$910,000
Medium	Rutledge Street / Washington Street / Ellison Street	North Diversion Channel Trail Access	Jefferson Street	1.2	Enhanced Bike Route, Bike Lane	Plausible Near-Term	\$1,190,000	\$2,510,000
Medium	Sage Road	East of Unser Boulevard	Old Coors Drive	1.1	Separated Bike Lane	Long-Term	\$890,000	\$890,000
High	Sage Road / De Vargas Road	Del Mastro Drive	Corel Drive/Unser Boulevard	1.4	Separated Bike Lane	Plausible Near-Term	\$1,630,000	\$5,180,000
Medium	Saint Josephs Drive	Saint Joseph's Avenue	Alamogordo Drive	0.7	Separated Bike Lane	Long-Term	\$1,600,000	\$2,770,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	San Antonio Drive / Ellison Street	I-25 Frontage Road SB	I-25 Frontage Road NB	0.1	Sidepath	Long-Term	\$1,610,000	
Medium	San Diego Avenue	Balloon Museum Drive	San Mateo Boulevard	0.4	Buffered Bike Lane	Plausible Near-Term	\$140,000	\$840,000
High	San Francisco Road / Coronado Avenue	San Pedro Drive	Eubank Boulevard	2.7	Bike Lane, Bike Boulevard, Buffered Bike Lane	Plausible Near-Term	\$2,430,000	\$6,630,000
Medium	San Francisco Road I-25 Crossing	Jefferson Street	I-25 NB Frontage Road	0.5	Sidepath, Paved Multi-Use Trail	Long-Term	N/A	
Medium	San Ildefonso Drive	Montaño Road	Mojave Street	0.5	Buffered Bike Lane	Plausible Near-Term	\$480,000	\$1,410,000
High	San Isidro Street / Guadalupe Trail	Indian School Road	Grecian Avenue	2.8	Bike Boulevard	Plausible Near-Term	\$3,830,000	\$6,290,000
Medium	San Jose Drain	City Limits	Bethel Avenue	0.6	Paved Multi-Use Trail	Long-Term	\$920,000	
Medium	San Jose Drain	Rio Bravo Boulevard / 2nd Street	City Limits	1.5	Paved Multi-Use Trail, Sidepath	Long-Term	N/A	
Medium	San Mateo Boulevard	Wilshire Avenue	Balloon Fiesta Parkway	1.2	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$1,070,000	\$4,020,000
Very High	San Pablo Street / Charleston Street / Mesilla Street	Southern Avenue	Constitution Avenue	2.3	Bike Boulevard	Long-Term	\$2,720,000	\$4,730,000
Very High	San Pedro Drive	Ridgecrest Drive	Osuna Road	6.1	Buffered Bike Lane	Plausible Near-Term	\$7,340,000	\$19,270,000
Medium	San Pedro Drive	Domingo Baca Trail	I-25 / Balloon Fiesta Parkway	1.5	Buffered Bike Lane, Bike Lane, Separated Bike Lane	Long-Term	\$750,000	\$1,160,000
Medium	San Pedro Drive	Domingo Baca Trail	Carmel Avenue	0.3	Separated Bike Lane	Long-Term	\$2,040,000	\$2,040,000
Medium	San Pedro Drive / Forest Hills Drive	Barnhart Street	Domingo Baca Trail	1.3	Buffered Bike Lane, Separated Bike Lane, Bike Lane	Plausible Near-Term	\$850,000	\$3,400,000
High	Santa Clara Avenue	Yale Boulevard	Wellesley Drive	0.8	Bike Boulevard, Bike Lane	Plausible Near-Term	\$670,000	\$1,690,000
High	Santa Fe Avenue	12th Street / Bosque Trail Access	2nd Street	0.6	Bike Boulevard	Plausible Near-Term	\$1,320,000	\$1,870,000
High	Seagull Street	Osuna Road	Academy Road	0.2	Buffered Bike Lane	Plausible Near-Term	\$650,000	\$990,000
High	Sequoia Road	Ladera Drive	Vista Grande Drive	0.7	Separated Bike Lane, Bike Lane, Enhanced Bike Route	Long-Term	\$950,000	\$2,250,000
Medium	Seven Bar Loop	Coors Boulevard Bypass	Coors Boulevard	0.6	Buffered Bike Lane	Plausible Near-Term	\$1,290,000	\$2,830,000
Medium	Signal Avenue	Barstow Street	Ventura Street	0.5	Bike Lane	Long-Term	\$110,000	\$110,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Very High	Silver Avenue	2nd Street	University Boulevard	1.1	Bike Boulevard, Separated Two-Way Cycle Track, Sidepath	Plausible Near-Term	\$3,400,000	\$4,760,000
Medium	Silver Charm Road	Juan Tabo Boulevard	Gulf Stream Street	0.2	Enhanced Bike Route	Plausible Near-Term	\$340,000	\$500,000
Medium	Simms Park Road	Tramway Boulevard	Elena Gallegos Open Space	1.4	Enhanced Bike Route	Plausible Near-Term	\$320,000	\$1,520,000
Medium	Snow Vista Trail Connection	Duke Avenue	Eucariz Avenue	0.2	Paved Multi-Use Trail	Long-Term	\$250,000	
High	South Diversion Channel Trail	Rio Bravo Boulevard	Basehart	3.6	Paved Multi-Use Trail	Long-Term	\$5,070,000	
High	Spain Road / Knight Road	Academy Road	Tramway Boulevard	3.1	Buffered Bike Lane, Separated Bike Lane, Bike Lane	Plausible Near-Term	\$3,080,000	\$9,700,000
Medium	Spring Flower Road / Desert Breeze Drive	Unser Boulevard	Trail Access	0.4	Enhanced Bike Route	Plausible Near-Term	\$110,000	\$490,000
Medium	Stagecoach Road / Wagon Train Drive	Four Hills Road	Four Hills Road	3.7	Enhanced Bike Route	Plausible Near-Term	\$1,150,000	\$4,390,000
Medium	Stanford Drive	Marble Avenue	Indian School Road	0.7	Bike Lane, Bike Boulevard	Plausible Near-Term	\$450,000	\$1,510,000
Very High	Stanford Drive / Columbia Drive	Gibson Boulevard	Central Avenue	1.6	Bike Boulevard	Plausible Near-Term	\$1,670,000	\$3,110,000
Very High	Summer Avenue / Mackland Avenue / Marble Avenue	Stanford Drive / North Diversion Channel Trail	Louisiana Boulevard / I-40 Trail Bridge	3.4	Bike Boulevard, Bike Lane	Long-Term	\$5,590,000	\$8,660,000
Medium	Sunport Boulevard	I-25 NB Frontage Road	Transport Street	0.1	Sidepath	Plausible Near-Term	\$460,000	
Medium	Sunport Loop / Yale Boulevard	Randolph Road	Girard Boulevard	0.8	Sidepath	Long-Term	\$1,370,000	
Medium	Tanager Drive	Red Robin Road	Tower Road	0.5	Enhanced Bike Route	Plausible Near-Term	\$400,000	\$810,000
Medium	Taylor Ranch Road	North of Homestead Circle	East of Golf Course Road	0.4	Buffered Bike Lane	Plausible Near-Term	\$880,000	\$1,980,000
Medium	Taylor Ranch Road	Montaño Road	Montaño Plaza Drive	0.4	Buffered Bike Lane	Plausible Near-Term	\$470,000	\$1,310,000
Medium	Tesuque Drive	Montaño Road	Homestead Circle	1.2	Bike Boulevard	Plausible Near-Term	\$1,910,000	\$2,980,000
Medium	Tiburon Street / Headline Boulevard	Tiburon Street, El Pueblo Road	Headline Boulevard	0.8	Buffered Bike Lane, Enhanced Bike Route	Plausible Near-Term	\$590,000	\$2,020,000
Medium	Tierra Pintada Boulevard	Watershed Drive	Unser Boulevard	0.6	Separated Bike Lane	Long-Term	\$2,630,000	\$4,100,000
Medium	Tijeras Arroyo Trail	Innovation Parkway	Juan Tabo Boulevard	0.6	Paved Multi-Use Trail	Long-Term	\$880,000	
High	Tom Bolack Park Trail	San Pedro Drive	Paseo de las Montañas Trail	0.3	Paved Multi-Use Trail	Long-Term	\$430,000	





Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
High	Tomasita Street / Martha Street	I-40 Trail Bridge	Gretta Street / Prospect Avenue	2.0	Bike Boulevard	Plausible Near-Term	\$1,820,000	\$3,560,000
High	Tony Sanchez Drive / Singing Arrow Avenue	Innovation Parkway	East of Dorado Place	1.6	Bike Boulevard, Bike Lane, Buffered Bike Lane	Long-Term	\$2,000,000	\$4,300,000
Very High	Tower Road	106th Street	Bridge Boulevard	2.9	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term	\$2,760,000	\$8,210,000
Medium	Tramway Boulevard	Wenonah Avenue	Central Avenue	0.2	Sidepath	Long-Term	\$220,000	
Very High	Trumbull Avenue	Valverde Drive	Eubank Boulevard	3.7	Bike Boulevard, Sidepath	Long-Term	\$5,390,000	\$8,580,000
Medium	Turner Drive	Encantado Road	Lomas Boulevard	0.8	Enhanced Bike Route	Plausible Near-Term	\$480,000	\$1,210,000
Medium	Universe Boulevard	Rainbow Boulevard	Paseo del Norte	2.8	Sidepath	Long-Term	\$4,560,000	
Medium	University Boulevard	Arbus Drive	Stryker Road	0.4	Buffered Bike Lane	Long-Term	\$300,000	\$1,360,000
Very High	University Boulevard	South of Gibson Boulevard	Lomas Boulevard	2.6	Separated Bike Lane, Bike Boulevard	Plausible Near-Term	\$4,730,000	\$10,940,000
Medium	University Boulevard	Arbus Drive	Crick Avenue	1.5	Sidepath	Plausible Near-Term	\$2,110,000	
Medium	University Boulevard	Clark Carr Road	Aircraft Avenue	1.3	Sidepath	Long-Term	\$2,140,000	
High	UNM South Campus Trail	Gibson Boulevard	Buena Vista Drive	0.7	Paved Multi-Use Trail	Long-Term	\$1,060,000	
High	Unser Boulevard	Montaño Road	Paradise Boulevard	6.6	Sidepath	Long-Term	\$10,790,000	
Medium	Unser Boulevard	Irving Boulevard	Existing Sidepath	0.1	Sidepath	Plausible Near-Term	\$380,000	
High	Uptown Boulevard	San Pedro Drive	Louisiana Boulevard	0.5	Buffered Bike Lane	Plausible Near-Term	\$950,000	\$2,300,000
High	Uptown Loop / Americas Parkway	Loop	Loop	1.3	Buffered Bike Lane	Plausible Near-Term	\$2,640,000	\$5,930,000
High	Utah Street	Southern Avenue	Marble Avenue / Charleston Street	1.9	Bike Boulevard, Bike Lane	Long-Term	\$2,530,000	\$4,330,000
Medium	Ventana Ranch East Trails	Paradise Boulevard	Irving Boulevard	1.8	Paved Multi-Use Trail	Plausible Near-Term	\$2,600,000	
Medium	Ventana Ranch South Trail	Ventana West Parkway	Hearthstone Road	0.4	Paved Multi-Use Trail	Plausible Near-Term	\$510,000	
Medium	Ventana Ranch Trail	Rainbow Boulevard	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	\$150,000	
Medium	Ventana West Parkway	Ventana Ranch South Trail	Paseo del Norte	0.3	Sidepath	Plausible Near-Term	\$450,000	
High	Ventura Street	Academy Road	Alameda Boulevard	2.3	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	\$3,170,000	\$8,740,000
Medium	Villa Corrales	Vista del Norte Drive	Diversion Channel Trail Access	0.2	Enhanced Bike Route	Plausible Near-Term	\$340,000	\$530,000



Priority Level	Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Cost Estimate – Low	Cost Estimate – High
Medium	Volcano Road	98th Street	94th Street	0.3	Sidepath	Long-Term	\$390,000	
Medium	Washington Street	Indian School Road	Menaul Boulevard	0.5	Buffered Bike Lane	Plausible Near-Term	\$1,070,000	\$2,020,000
Medium	Washington Street	Paseo del Norte Frontage Road	Alameda Boulevard	0.7	Buffered Bike Lane	Plausible Near-Term	\$260,000	\$1,530,000
Very High	Washington Street / Montclair Drive	Menaul Boulevard	Montgomery Boulevard	1.7	Bike Boulevard, Sidepath	Long-Term	\$2,690,000	\$4,020,000
Very High	Washington Street / Valverde Drive / Morningside Drive	Gibson Boulevard	Marquette Avenue	2.1	Bike Boulevard	Plausible Near-Term	\$3,200,000	\$5,020,000
Very High	Wellesley Drive / Tulane Drive / Lafayette Drive	Gibson Boulevard	Indian School Road	2.9	Bike Boulevard, Sidepath	Long-Term	\$4,940,000	\$7,470,000
Medium	Western Trail / Namaste Road	Unser Boulevard	Tres Gracias Drive / San Antonio Oxbow Open Space	1.2	Separated Bike Lane, Buffered Bike Lane, Enhanced Bike Route	Plausible Near-Term	\$1,700,000	\$4,330,000
Medium	Westgate Community Park Trail	Delgado Drive	98th Street / Snow Vista Boulevard	0.9	Paved Multi-Use Trail	Plausible Near-Term	\$1,210,000	
High	William Street	Woodward Road	Pacific Avenue / Edith Boulevard	2.0	Bike Boulevard, Bike Lane	Plausible Near-Term	\$1,500,000	\$3,930,000
Medium	Winter Haven Road	Montaño Plaza Drive	Bontierra Trail	0.4	Buffered Bike Lane	Plausible Near-Term	\$150,000	\$870,000
Medium	Wyoming Boulevard	Oakland Avenue	Beverly Hills Avenue	0.6	Separated Bike Lane	Long-Term	\$510,000	\$760,000
Medium	Wyoming Boulevard	Palomas Avenue	Holly Avenue	0.2	Separated Bike Lane	Long-Term	\$1,290,000	\$1,290,000
Medium	Wyoming Boulevard	Signal Avenue	Oakland Avenue	0.2	Separated Bike Lane	Long-Term	\$960,000	\$960,000
High	Wyoming Boulevard	Academy Road	Signal Avenue	3.2	Sidepath	Long-Term	\$19,160,000	
Medium	Wyoming Boulevard	Bear Canyon Arroyo Trail	Spain Road	0.1	Sidepath	Plausible Near-Term	\$430,000	
Medium	Yale Boulevard	Randolph Road	Gibson Boulevard	0.2	Buffered Bike Lane	Plausible Near-Term	\$720,000	\$1,200,000
High	Yale Boulevard	Las Lomas Road	Tucker Avenue	0.4	Buffered Bike Lane, Bike Lane	Long-Term	\$690,000	\$890,000



**Table 7: Implementation Strategies by Project**

Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
10th Street	Santa Fe Avenue	Marquette Avenue	0.9	Bike Boulevard, Bike Lane	Plausible Near-Term	High	Bike Boulevard	Restriping
12th Street	Sawmill Road	BNSF Rail Spur	0.3	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping - Road Diet	
12th Street	BNSF Rail Spur	I-40 Frontage Road WB	0.2	Buffered Bike Lane	Long-Term	Medium	Restriping - Road Diet	Restriping
14th Street	Lomas Boulevard	N/A	0.0	Bike Boulevard Crossing	Long-Term	Medium	Enhanced Crossing	
15th Street	Marble Avenue	Bellamah Avenue	0.5	Bike Boulevard	Long-Term	Medium	Bike Boulevard	Future Roadway / Street Frontage Buildout
2nd Street / 3rd Street	Marble Avenue	Candelaria Road	2.4	Buffered Bike Lane	Plausible Near-Term	High	Speed Reduction	Restriping
2nd Street / 3rd Street	McKnight Avenue / I-40 Frontage Road EB	Arvada Ave	0.3	Buffered Bike Lane	Long-Term	Medium	Speed Reduction	Restriping
4th Street	Ortega Road	Alameda Boulevard	0.7	Bike Lane	Plausible Near-Term	Medium	Peer Agency Led	
57th Street / 58th Street / 59th Street	Gonzales Road	Atrisco Drive / I-40 Trail	2.6	Bike Boulevard, Sidepath	Plausible Near-Term	High	Bike Boulevard	Improve Available Back-of-Curb
57th Street / Atrisco Drive	Ouray Road	Sequoia Road	0.6	Buffered Bike Lane	Plausible Near-Term	High	Restriping - Road Diet	
5th Street / 6th Street	Coal Avenue	I-40 Frontage Road EB	2.9	Buffered Bike Lane, Bike Lane	Plausible Near-Term	Very High	Restriping - Road Diet	Restriping
64th Street	I-40 Trail	Ladera Drive	0.7	Bike Boulevard, Paved Multi-Use Trail	Plausible Near-Term	Medium	Bike Boulevard	Improve Existing Sidewalk / Trail Connection
72nd Street / Hanover Road / Estancia Drive	Fortuna Road	Illif Road	1.2	Enhanced Bike Route, Buffered Bike Lane	Plausible Near-Term	Medium	Enhanced Bike Route	Restriping
86th Street	98th Street	Central Avenue	1.9	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term	High	Restriping	Speed Reduction
94th Street	Benavides Road	Volcano Road	1.8	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	
98th Street	Dennis Chavez Boulevard	Blake Road	1.1	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
98th Street	Central Avenue	South of Bluewater Road	0.6	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
98th Street / Snow Vista Boulevard	North of Rio Clara Avenue	De Vargas Road	1.4	Sidepath	Long-Term	High	Future Roadway / Street Frontage Buildout	



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Academy Road	Seagull Street	Wyoming Boulevard	1.7	Separated Bike Lane	Long-Term	High	Median Modifications	
Academy Road	Wyoming Boulevard	Tramway Boulevard	4.3	Sidepath	Long-Term	Very High	Curblin and/or Median Modifications	Improve Available Back-of-Curb
Airport Drive	Central Avenue	Los Volcanes Road	0.8	Buffered Bike Lane	Plausible Near-Term	High	Restriping	
Alameda Boulevard	Balloon Museum Drive	Ventura Street	5.8	Sidepath	Long-Term	High	Improve Available Back-of-Curb	Future Roadway / Street Frontage Buildout
Alameda Boulevard / NM 528	Lorretta Drive	Westside Boulevard	3.7	Sidepath	Long-Term	High	Peer Agency Led	
Alameda Drain Trail	Central Avenue	Rio Grande Boulevard / I-40	0.9	Paved Multi-Use Trail	Long-Term	High	Paved Multi-Use Trail	
Alameda Drain Trail	Rio Grande Boulevard / I-40	Matthew Avenue	0.9	Paved Multi-Use Trail	Plausible Near-Term	Medium	Paved Multi-Use Trail	
Alameda Drain Trail	Matthew Avenue	4th Street	0.0	Paved Multi-Use Trail Crossing	Long-Term	High	Enhanced Crossing	
Alameda Drain Trail / 2nd Street	Paseo del Norte Boulevard	Alameda Boulevard	0.8	Paved Multi-Use Trail	Long-Term	Medium	Peer Agency Led	
Alamogordo Drive / Vista Grande Drive	Bridges Avenue	Saint Joseph's Drive	1.4	Enhanced Bike Route	Plausible Near-Term	High	Enhanced Bike Route	
Alvarado Drive	Eastern Avenue	I-40 Trail Bridge	2.2	Bike Boulevard, Bike Lane	Long-Term	Very High	Bike Boulevard	Restriping
Alvarado Drive / Palomas Drive	I-40 Trail Bridge	Comanche Road	1.4	Bike Boulevard	Long-Term	Very High	Bike Boulevard	
Amole Arroyo Trail / Snow Vista Trail / West Gate Trail	Blake Road	Tower Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	High	Enhanced Crossing	
Amole del Norte Trail	Blake Road	Sage Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Amole Mesa Avenue	118th Street	Amole Arroyo Trail	1.5	Bike Lane, Bike Boulevard, Sidepath	Plausible Near-Term	Medium	Restriping	Speed Reduction, Future Roadway / Street Frontage Buildout, Bike Boulevard
Andalusian Avenue	Tanager Drive	102nd Street Trail Access	0.4	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Anderson Avenue / Smith Avenue	Wellesley Drive	Washington Street	0.8	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Apache Avenue / Utah Street	Española Street	Claremont Avenue	1.0	Bike Boulevard	Long-Term	High	Bike Boulevard	
Arenal Road	Atrisco Riverside Drain	Isleta Boulevard	0.7	Enhanced Bike Route	Plausible Near-Term	Medium	Peer Agency Led	
Aspen Avenue	I-40 Trail	Rail Trail Access	0.6	Bike Boulevard	Long-Term	Medium	Bike Boulevard	



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Atrisco Drain	Arenal Road	Isleta Boulevard	0.2	Paved Multi-Use Trail	Long-Term	Medium	Peer Agency Led	
Atrisco Drive	Central Avenue	I-40 Trail Bridge	1.7	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	High	Additional vertical separation	Restriping, Restriping - Road Diet, Speed Reduction
Atrisco Riverside Drain	Rio Bravo Boulevard	Arenal Road	1.6	Paved Multi-Use Trail	Long-Term	Medium	Peer Agency Led	
Atrisco Riverside Drain	Bridge Boulevard	Central Avenue	1.7	Paved Multi-Use Trail	Long-Term	High	Paved Multi-Use Trail	
Atrisco Vista Boulevard	Double Eagle Airport Road	Paseo del Norte	3.9	Sidepath	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Avalon Trail	90th Street	Bluewater Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Avenida Cesar Chavez	Broadway Boulevard	Yale Boulevard	1.1	Separated Bike Lane	Plausible Near-Term	Very High	Restriping - Road Diet	
Avenida Cesar Chavez	Walter Street	Langham Street	0.3	Separated Bike Lane	Long-Term	High	Separated Intersection	
Avenida Cesar Chavez Railroad Overpass	3rd Street	Broadway Boulevard	0.4	Sidepath	Long-Term	High	Feasibility Analysis	
Avenida Dolores Huerta	La Vega Drive	Paseo del Bosque Trail	0.4	Sidepath	Long-Term	High	Feasibility Analysis	
Aztec Road / Princeton Drive	Candelaria Road / Comanche Road	North Diversion Channel Trail	1.1	Bike Lane, Bike Boulevard	Plausible Near-Term	Medium	Restriping	Bike Boulevard
Balloon Fiesta Northwest Access Trail	North Diversion Channel	I-25	2.2	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Balloon Museum Drive	Jefferson Street / Balloon Museum Drive	San Diego Avenue	0.1	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Barcelona Road	Coors Boulevard	Isleta Boulevard	1.1	Bike Lane	Long-Term	High	Peer Agency Led	
Barstow Street	Signal Avenue	Alameda Boulevard	0.1	Separated Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Barstow Street	Harper Road	Signal Road	1.8	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	High	Restriping	Speed Reduction, Add Vertical Separation
Barstow Street	Alameda Boulevard	Trail Access	0.2	Bike Lane	Plausible Near-Term	Medium	Restriping	
Barstow Street	Eagle Rock Ave / Trail Access	Florence Avenue	0.3	Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	





Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Bear Canyon Arroyo Trail	Wyoming Boulevard	Morris Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Very High	Enhanced Crossing	
Bear Canyon Trail	Jefferson Street	N/A	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Bellamah Avenue	West of 15th Street	12th Street	0.2	Buffered Bike Lane	Long-Term	Medium	Restriping	Future Roadway / Street Frontage Buildout
Benavides Road	Del Rey Road	Camino San Martin	1.2	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Bermuda Drive / Chelwood Road	Candelaria Road	Manitoba Drive	1.8	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	
Bethel Avenue	San Jose Drain	Broadway Boulevard	0.4	Bike Boulevard	Long-Term	Medium	Bike Boulevard	
Black Arroyo Trail	Ellison Road	Seven Bar Loop Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Blake Road	Unser Boulevard	Blake Circle	0.5	Buffered Bike Lane	Long-Term	Medium	Speed Reduction	Future Roadway / Street Frontage Buildout, Restriping
Blake Road	Isleta Drain (LRBS)	Isleta Boulevard (LRBS)	1.7	Bike Lane	Long-Term	Medium	Peer Agency Led	
Blake Road / De Anza Drive	98th Street / 86th Street	Unser Boulevard	1.3	Buffered Bike Lane	Plausible Near-Term	High	Speed Reduction	Restriping
Bluewater Road	Camino Azul	East of Coors Boulevard	0.1	Separated Bike Lane	Long-Term	Medium	Separated Intersection	
Bluewater Road	98th Street	Camino Azul / Coors Boulevard	2.0	Buffered Bike Lane	Plausible Near-Term	High	Speed Reduction	Restriping
Bluewater Road / La Bajada Road	Coors Boulevard	Atrisco Drive	1.2	Bike Boulevard, Sidepath	Plausible Near-Term	High	Bike Boulevard	Improve Available Back-of-Curb
Bobby Foster Road	Broadway Boulevard	Los Picaros Road	0.5	Buffered Bike Lane	Long-Term	Medium	Peer Agency Led	
Bobby Foster Road / Los Picaros Road	University Boulevard	Los Picaros Road	8.0	Sidepath	Plausible Near-Term	Medium	Future Roadway / Street Frontage Buildout	
Bosque Plaza Lane	Winter Haven Road	La Orilla Road	0.1	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Brentwood Hills Boulevard / Marie Park Drive	Martha Street / Embudo Trail	Eastridge Drive / Tramway Boulevard Crossing	1.8	Bike Boulevard	Long-Term	High	Bike Boulevard	
Broadway Boulevard	Menaul Boulevard	Candelaria Road	0.6	Separated Bike Lane	Plausible Near-Term	Medium	Restriping - Road Diet	
Broadway Boulevard	Coal Avenue	Lomas Boulevard	0.9	Buffered Bike Lane	Plausible Near-Term	Very High	Restriping - Road Diet	
Buena Vista Drive	Gibson Boulevard	Central Avenue	1.6	Bike Boulevard	Long-Term	Very High	Bike Boulevard	



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Calabacillas Arroyo Spur Trail	Calabacillas Arroyo	Unser Boulevard	1.4	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
Calabacillas Arroyo Trail	Universe Boulevard	Eagle Ranch Road	4.4	Paved Multi-Use Trail	Long-Term	High	Paved Multi-Use Trail	
Calle Norteña	Taylor Ranch Drive / Taylor Ranch Road	Golf Course Road	0.6	Buffered Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping
Camino de la Sierra / Arcadia Road	Tramway Trail	Copper Avenue	2.0	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Camino de la Sierra / Glenwood Hills Drive	Candelaria Road	Emudito Trailhead	1.8	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Camino de la Sierra / Lomas Boulevard	Monte Largo Drive / Monte Largo Drive	Indian School Road	0.5	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	Speed Reduction
Camino del Sol / Kielich Avenue / Malaguena Lane	Spain Road	Lowell Street	2.9	Bike Boulevard, Bike Lane	Plausible Near-Term	High	Bike Boulevard	Restriping
Camino San Martin	Snow Vista Boulevard	Gibson Boulevard	0.8	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Campbell Road	Paseo del Bosque Trail	Alameda Drain Trail Spur	0.9	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Candelaria Road	San Isidro Street	I-40 Frontage Road SB	2.4	Separated Bike Lane	Plausible Near-Term	Very High	Restriping - Road Diet	
Candelaria Road	Tramway Boulevard	Palo Alto Drive	0.1	Separated Bike Lane	Long-Term	Medium	Separated Intersection	
Candelaria Road	I-25 Frontage Road SB	Princeton Drive	0.3	Separated Two-Way Cycle Track	Long-Term	Medium	Restriping - Road Diet	
Carlisle Boulevard	Calle del Ranchero	Constitution Road	0.1	Bike Lane	Plausible Near-Term	Medium	Restriping	
Carruthers Road	Westwind Street / Overlook Drive	Academy Road	0.7	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Cedarbrook Avenue / Larchmont Drive / Montgomery Boulevard	Tramway Boulevard / Manitoba Drive	Glenwood Hills Drive	1.1	Enhanced Bike Route, Sidepath	Plausible Near-Term	Medium	Enhanced Bike Route	Improve Available Back-of-Curb
Central Avenue	90th Street	Unser Transit Center	2.9	Sidepath	Long-Term	High	Future Roadway / Street Frontage Buildout	Improve Available Back-of-Curb
Chacoma Place / San Pasquale Avenue	El Vado / East of Central Avenue	Laguna Boulevard	0.9	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Chavez Road	Rio Grande Boulevard	4th Street	1.0	Sidepath	Long-Term	Medium	Peer Agency Led	
Chelwood Park Boulevard	Copper Avenue	Candelaria Road	2.6	Bike Lane	Plausible Near-Term	Very High	Speed Reduction	Restriping



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Chico Road	Eubank Boulevard	Morris Street	0.5	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
Chico Road	Utah Street	Shirley Street / I-40 Trail	1.6	Bike Boulevard	Long-Term	High	Bike Boulevard	
Claremont Avenue	Richmond Drive	Juan Tabo Boulevard / Paseo de las Montañas Trail	6.0	Bike Boulevard, Bike Lane	Long-Term	Very High	Bike Boulevard	Restriping
Cloudview Avenue	Chelwood Park Boulevard	Lomas Verdes Avenue / Panorama Place	0.5	Bike Lane	Plausible Near-Term	High	Restriping	
Cloudview Avenue / Encantado Road	Lomas Verdes Avenue / Panorama Place	Avital Northeast Drive	0.1	Separated Bike Lane	Long-Term	Medium	Separated Intersection	
Coal Avenue	Elm Street	Oak Street	0.1	Separated Bike Lane	Long-Term	High	Separated Intersection	
Cochiti Road / Shirley Street	Morris Street / Elizabeth Street	Chico Road	1.0	Bike Boulevard	Long-Term	High	Bike Boulevard	
Comanche Road	San Mateo Boulevard	East of Tramway Boulevard	5.5	Separated Bike Lane, Enhanced Bike Route, Bike Lane	Plausible Near-Term	Very High	Restriping - Road Diet	Restriping, Enhanced Bike Route, Add Vertical Separation
Comanche Road	Alexander Boulevard	Princeton Drive	0.5	Sidepath, Bike Lane	Plausible Near-Term	Medium	Peer Agency Led	
Constitution Avenue	Pennsylvania Street	Indian School Road	3.4	Bike Lane	Plausible Near-Term	Very High	Restriping	Speed Reduction, Restriping - Road Diet
Constitution Avenue	Vassar Drive	Mesilla Street	1.6	Bike Lane, Buffered Bike Lane, Buffered Bike Lane One Direction	Plausible Near-Term	Very High	Restriping	
Coors Boulevard	Gun Club Road	Blake Road	1.7	Separated Bike Lane	Plausible Near-Term	Medium	Peer Agency Led	Separated Intersection
Coors Boulevard	Blake Road (LRBS)	Bridge Boulevard (LRBS)	2.3	Buffered Bike Lane	Long-Term	High	Peer Agency Led	Separated Intersection
Coors Frontage Road	Southwestern Polytechnic Institute Road	Paseo del Norte Trail	0.4	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Copper Avenue	Tomasita Street / I-40 Trail Bridge	Copper Trailhead	2.3	Buffered Bike Lane, Bike Boulevard, Enhanced Bike Route	Plausible Near-Term	High	Speed Reduction	Restriping, Bike Boulevard, Enhanced Bike Route
Copper Avenue	Wyoming Boulevard	Eubank Boulevard	1.0	Bike Lane	Plausible Near-Term	High	Speed Reduction	Restriping



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Corrales Main / La Orilla Outlet Northwest Trail	Coors Trail	Southwestern Polytechnic Institute Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Crest Avenue / Eastern Avenue	Washington Street	Louisiana Boulevard	1.5	Bike Boulevard	Long-Term	Very High	Bike Boulevard	
De Vargas Road	Osprey Drive	Cockatiel Drive	0.2	Buffered Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Del Mastro Drive	Del Rey Road	De Vargas Road	0.5	Bike Lane	Plausible Near-Term	Medium	Restriping	
Del Rey Road	Benavides Road	De Anza Drive	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	Medium	Bike Boulevard	Restriping
Dellwood Road / Aztec Road	Pennsylvania Street	Parsifal Street	1.3	Bike Boulevard	Long-Term	High	Bike Boulevard	
Dellyne Avenue	West of Unser Boulevard	Coors Boulevard	1.1	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	Speed Reduction
Dellyne Avenue	Oxnard Road	Winter Haven Road	0.3	Separated Bike Lane	Long-Term	Medium	Separated Intersection	
Diversion Channel Trail UNM Connection	Tucker Avenue	Yale Boulevard	0.2	Paved Multi-Use Trail	Long-Term	High	Paved Multi-Use Trail	
Doctor Martin Luther King Junior Avenue	Arno Street	Oak Street	0.4	Separated Bike Lane	Plausible Near-Term	High	Additional vertical separation	
Domingo Baca Trail	San Pedro Drive	Ventura Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	High	Enhanced Crossing	
Don Quixote Drive / Don Fernando Avenue	Paseo del Bosque Trail Access	Rio Grande Boulevard	0.7	Bike Boulevard	Long-Term	Medium	Bike Boulevard	
Dorado Place / Wenonah Avenue	Wenonah Avenue	Central Avenue	0.3	Buffered Bike Lane, Bike Boulevard	Plausible Near-Term	High	Restriping	Bike Boulevard
Eagle Ranch Road	All Saints Road	Paradise Boulevard	0.2	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Edith Bouelvard	Gibson Boulevard	Menaul Boulevard	3.4	Bike Boulevard, Bike Lane	Plausible Near-Term	Very High	Bike Boulevard	Restriping
Edith Boulevard	El Pueblo Road	Alameda Boulevard	0.8	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
El Pueblo Road	North Diversion Channel Trail	West of Tiburon Street	0.4	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Embudito Drive / Hugh Graham Road	Tramway Trail	Glenwood Hills Drive / Camino de la Sierra	0.8	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Embudo Channel Trail	Cutler Avenue	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Encantado Road	Avital Northeast Drive	Camino de la Sierra	0.6	Enhanced Bike Route, Bike Lane	Plausible Near-Term	Medium	Enhanced Bike Route	Restriping, Speed Reduction
Eubank Boulevard	Montgomery Boulevard	San Francisco Road	5.3	Separated Bike Lane	Long-Term	Very High	Median Modifications	
Eucariz Avenue	West of 98th Street	Stinson Street	1.6	Bike Boulevard, Bike Lane, Sidepath	Plausible Near-Term	Medium	Bike Boulevard	Restriping
Florence Avenue	Louisiana Boulevard	Barstow Road	1.0	Bike Lane	Long-Term	Medium	Restriping	Future Roadway / Street Frontage Buildout
Forest Hills Drive	I-25 NB Frontage Road	Barnhart Street	0.2	Buffered Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Fortuna Road	Estancia Drive	64th Street	0.2	Separated Bike Lane	Long-Term	Medium	Separated Intersection	
Fortuna Road	Ben E Keith Way	64th Street	0.7	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
Fortuna Road Trail	Unser Boulevard	Ben E Keith Way	0.4	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
Gallant Fox Road / Raton Avenue	Juan Tabo Boulevard	Wagon Train Drive	0.6	Enhanced Bike Route, Paved Multi-Use Trail	Plausible Near-Term	Medium	Enhanced Bike Route	Improve Existing Sidewalk / Trail Connection
Garfield Avenue	Buena Vista Drive	Morningside Drive	1.4	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	Speed Reduction
Gibson Boulevard	De Anza Drive	Unser Boulevard / Spring Flower Road	1.1	Sidepath	Long-Term	Medium	Future Roadway / Street Frontage Buildout	Improve Available Back-of-Curb
Gibson Boulevard	Broadway Boulevard	I-25 NB Frontage Road	0.8	Sidepath, Separated Bike Lane	Plausible Near-Term	High	Peer Agency Led	
Gibson Boulevard	Buena Vista Drive	Yale Boulevard	0.1	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Gibson Boulevard	Eubank Boulevard	Innovation Parkway	0.3	Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Gibson Boulevard	I-25 NB Frontage Road	University Boulevard	0.3	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Gibson Boulevard	Camino San Martin	Spring Flower Place	0.1	Separated Bike Lane	Long-Term	Medium	Separated Intersection	
Girard Boulevard (Gaps)	Central Avenue	Indian School Road	0.2	Bike Lane, Buffered Bike Lane	Plausible Near-Term	High	Restriping	
Golf Course Road	Homestead Circle	Paseo del Norte	1.0	Sidepath	Long-Term	Medium	Curblin and/or Median Modifications	Future Roadway / Street Frontage Buildout
Gonzales Road	Coors Boulevard	Old Coors Drive	0.9	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard, Paved Multi-use Trail	





Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Greene Avenue	Golf Course Road	Irving Boulevard	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	Medium	Bike Boulevard	Restriping
Griegos Drain	Campbell Road	Candelaria Road	0.2	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
Griegos Drain	Montaño Road	Chavez Road	1.1	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
Griegos Road	5th Street	Las Hermanas Street	0.4	Buffered Bike Lane, Bike Lane	Plausible Near-Term	Medium	Restriping - Road Diet	Restriping
Hannett Avenue / Aspen Avenue / Haines Avenue	Stanford Drive	Washington Street	2.6	Bike Boulevard	Long-Term	High	Bike Boulevard	
Harper Road	Barstow Street	Ventura Avenue	1.7	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Herman Roser Avenue	Elizabeth Street / Tony Sanchez Drive	Juan Tabo Boulevard	0.3	Bike Boulevard, Bike Lane	Long-Term	Medium	Bike Boulevard	Restriping
Holbrook Street	Ramtha Street / Quintessence Road	Carmel Avenue	1.0	Bike Boulevard, Separated Bike Lane, Buffered Bike Lane, Paved Multi-Use Trail	Long-Term	Medium	Bike Boulevard	Restriping - Road Diet, Paved Multi-Use Trail
Homestead Circle	Taylor Ranch Road	Los Alisos Place	0.1	Bike Lane	Plausible Near-Term	Medium	Restriping	
I-25 Frontage Road NB	Harper Drive	Del Rey Avenue	0.7	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	Future Roadway / Street Frontage Buildout
I-40 Trail	Gabaldon Drive	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Iliff Road	Estancia Drive	Atrisco Dr	0.5	Separated Bike Lane, Bike Lane	Long-Term	Medium	Restriping	
Iliff Road / 72nd Street	I-40 Trail Bridge	Ladera Drive	0.7	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
Indian School Road	West of Wyoming Boulevard	Juan Tabo Boulevard	2.1	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	High	Speed Reduction	Restriping - Road Diet, Restriping
Indian School Road	Broadway Boulevard	San Pedro Drive	3.8	Separated Bike Lane	Plausible Near-Term	Very High	Restriping - Road Diet	
Indian School Road	Eastridge Drive / Constitution Avenue	Cumbres Street	0.5	Separated Bike Lane	Plausible Near-Term	Medium	Restriping - Road Diet	
Indian School Road	Americas Parkway	Uptown Loop Road	0.3	Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping
Indian School Road	Cumbres Street	Embudo Trailhead	0.9	Enhanced Bike Route, Bike Lane	Plausible Near-Term	Medium	Enhanced Bike Route	Restriping, Speed Reduction
Indian School Road	Rio Grande Boulevard	12th Street	0.7	Buffered Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping
Iron Avenue / 14th Street	Tingley Drive / Paseo del Bosque Trail	Silver Avenue	0.5	Bike Boulevard, Sidepath	Plausible Near-Term	Medium	Bike Boulevard	Improve Available Back-of-Curb



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Irving Boulevard	Rio Los Pinos Drive/Timan Avenue	Golf Course Road	0.8	Separated Bike Lane	Plausible Near-Term	Medium	Restriping - Road Diet	
Irving Boulevard	Universe Boulevard	La Paz Drive	0.6	Buffered Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping - Road Diet
Irving Boulevard	Unser Boulevard	Golf Course Road	4.5	Sidepath	Long-Term	High	Improve Available Back-of-Curb	Future Roadway / Street Frontage Buildout
Isleta Drain	Central Avenue	Rio Bravo Boulevard	4.3	Paved Multi-Use Trail	Long-Term	High	Peer Agency Led	
Jefferson Street	Montgomery Boulevard	McLeod Road	0.5	Buffered Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping - Road Diet
Jefferson Street	Masthead Street	Paseo del Norte WB Frontage Road	1.4	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Jewett Drive / Michael Hughes Drive / Durant Avenue	Tramway Boulevard	Monte Largo Drive / Lomas Blvd	0.9	Enhanced Bike Route	Plausible Near-Term	High	Enhanced Bike Route	
Juan Tabo Boulevard	Cicadia Road	Horseshoe Trail	0.4	Buffered Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping - Road Diet
Kachina Street	San Ildefonso Drive	Taylor Ranch Road	0.7	Bike Lane, Enhanced Bike Route	Plausible Near-Term	Medium	Restriping	Enhanced Bike Route
Kayenta Street	South of Irving Boulevard	McMahon Boulevard	0.8	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping - Road Diet	Restriping, Future Roadway / Street Frontage Buildout
Kimela Drive / Rainwater Road	Camino San Martin	Desert Breeze Drive / Trail Access	0.9	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Kimmick Drive	Unser Boulevard	Paseo del Norte	0.6	Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Kimmick Drive	Rosa Parks Road	Paseo del Norte	0.2	Sidepath	Plausible Near-Term	Medium	Future Roadway / Street Frontage Buildout	
La Cueva Channel / San Diego Avenue Trail	Balloon Museum Drive	Wyoming Boulevard	2.0	Paved Multi-Use Trail	Long-Term	Medium	Feasibility Analysis	
La Orilla Road	West of Coors Boulevard	Bosque Plaza Lane	0.3	Separated Bike Lane, Sidepath	Long-Term	Medium	Separated Intersection	
Ladera Drive	Arroyo Vista Boulevard	Ouray Road	2.5	Separated Bike Lane	Long-Term	High	Median Modifications	
Lagrima de Oro Road	Dona Marguerita Avenue	Morris Street	0.8	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	
Laguna Boulevard	Kit Carson Avenue	14th Street	0.6	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Las Lomas Road / Campus Boulevard	University Boulevard	Monte Vista Boulevard	1.0	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term	Very High	Restriping	Bike Boulevard
Las Lomas Drive	Vista Del Norte Drive	El Pueblo Road	0.7	Bike Lane	Plausible Near-Term	Medium	Restriping	
Laurelwood Parkway	Hanover Road / I-40 Trail Access	Ladera Drive	0.4	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
Lead Avenue / Coal Avenue	Broadway Boulevard	Elm Street	0.8	Separated Bike Lane	Plausible Near-Term	Very High	Additional vertical separation	
Liberty Drive	Barstow Street	Ventura Street	0.5	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Lomas Boulevard	6th Street	BNSF Rail Corridor	0.4	Sidepath	Long-Term	High	Improve Available Back-of-Curb	
Lomas Channel Trail	Hupmobile Drive	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Los Volcanes Road	Unser Boulevard	Airport Drive	0.5	Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping
Louisiana Boulevard	Burlison Drive	Modesto Avenue	2.5	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term	High	Restriping	Restriping - Road Diet, Speed Reduction
Louisiana Boulevard	Gibson Boulevard	Central Avenue	1.2	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term	Very High	Restriping - Road Diet	Speed Reduction
Louisiana Boulevard	Modesto Avenue	Elena Drive	0.7	Separated Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Manitoba Drive	Tramway Ridge Drive	Larchmont Drive	0.2	Separated Bike Lane, Bike Lane	Long-Term	Medium	Separated Intersection	
Manitoba Drive	Juan Tabo Boulevard	Tramway Ridge Drive	1.1	Bike Boulevard, Sidepath	Plausible Near-Term	High	Bike Boulevard	Improve Available Back-of-Curb
Marble Avenue / 1st Street	6th Street	1st Street / Lomas Boulevard	0.5	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	Speed Reduction
Mariposa Basin Recreation Trail	San Ildefonso Drive	Mojave Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Mariposa Diversion Trail	Unser Boulevard	Kachina Street	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	High	Enhanced Crossing	
Marna Lynn Avenue / Davenport Street / Congress Avenue	Petroglyph Trailhead	Congress Avenue / Golf Course Road	1.1	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Marquette Avenue	14th Street	6th Street	0.5	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	
Marquette Avenue / Roma Avenue	2nd Street	Edith Boulevard	0.5	Bike Boulevard, Sidepath	Plausible Near-Term	High	Bike Boulevard	Improve Existing Sidewalk / Trail Connection



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Marquette Avenue / Roma Avenue	Girard Boulevard	San Pedro Drive	2.3	Bike Boulevard	Long-Term	Very High	Bike Boulevard	
McKinney Drive	Academy Road	Forest Hills Drive	0.8	Buffered Bike Lane, Bike Lane	Plausible Near-Term	Medium	Restriping	
McLeod Road	Jefferson Street	San Pedro Drive	0.9	Bike Lane, Buffered Bike Lane	Plausible Near-Term	High	Restriping	Restriping - Road Diet, Speed Reduction
Mesa Arenoso Drive / Pauza Drive	Sacate Blanco Avenue	Gibson Boulevard	0.9	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Mill Pond Road Trail	Aspen Avenue	I-40 Trail	0.2	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
Mission Avenue	Alexander Boulevard	Chappel Road	0.6	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping - Road Diet	
Mojave Street	Atrisco Drive	Homestead Circle	1.0	Enhanced Bike Route, Bike Lane, Paved Multi-Use Trail	Plausible Near-Term	Medium	Enhanced Bike Route	Restriping, Improve Existing Sidewalk / Trail Connection
Monachos Road / Via Posada Street	Juan Tabo Boulevard	Wagon Train Drive / Stagecoach Road	0.7	Enhanced Bike Route, Paved Multi-Use Trail	Plausible Near-Term	Medium	Enhanced Bike Route	Improve Existing Sidewalk / Trail Connection
Montaño Road	Unser Boulevard	Winter Haven Road	2.0	Separated Bike Lane	Long-Term	High	Median Modifications	
Montaño Road	5th Street	2nd Street	0.6	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Monte Largo Drive / Menaul Boulevard	Lomas Boulevard / Monte Verde Drive	Tramway Trail	1.7	Bike Lane, Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	Speed Reduction, Restriping - Road Diet
Monte Vista Boulevard	Central Avenue	Lomas Boulevard	0.7	Buffered Bike Lane	Plausible Near-Term	High	Speed Reduction	Restriping
Montgomery Boulevard	Culture Drive	North Diversion Channel Trail	0.5	Sidepath, Bike Lane	Plausible Near-Term	Medium	Peer Agency Led	
Moon Street	Susan Avenue / Southern Boulevard	Copper Avenue	0.9	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	
Moon Street	Matthew Avenue	Veranda Road	0.1	Bike Lane	Plausible Near-Term	Medium	Restriping	
Moon Street / Easterday Drive	Lomas Boulevard / I-40 Trail Bridge	Constitution Avenue	0.5	Bike Boulevard, Bike Lane	Plausible Near-Term	Medium	Bike Boulevard	Restriping
Morris Street	Candelaria Road	Montgomery Boulevard	1.0	Bike Lane	Plausible Near-Term	High	Speed Reduction	Restriping
Morris Street	Tomasita Street	Constitution Avenue	0.8	Bike Lane, Bike Boulevard	Plausible Near-Term	High	Restriping	Bike Boulevard
Mountain Road	Broadway Boulevard	Edith Boulevard	0.2	Bike Lane	Plausible Near-Term	High	Restriping	
Mountain Road	Tomasita Street	Chelwood Park Boulevard	0.9	Bike Boulevard, Bike Lane	Long-Term	High	Bike Boulevard	Restriping



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Natalie Avenue/Ponderosa Avenue	Paseo del Nordeste/San Mateo Boulevard	Pennsylvania Street	1.7	Bike Boulevard, Bike Lane	Plausible Near-Term	High	Bike Boulevard	Restriping
North Diversion Channel Trail Extension	Balloon Museum Drive	Edith Boulevard	0.9	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
North Domingo Baca Trail	Barstow Street	Ventura Street	0.5	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
Osuna Road	West of San Mateo Boulevard	East of San Mateo Boulevard	0.1	Separated Bike Lane	Long-Term	High	Separated Intersection	
Osuna Road	2nd Street / Elwood Street	Chappell Road	0.9	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Osuna Road	West of 4th Street	2nd Street	0.5	Sidepath	Long-Term	Medium	Peer Agency Led	
Ouray Road	57th Street	Coors Boulevard NB Frontage Road	0.2	Separated Bike Lane	Long-Term	High	Separated Intersection	
Ouray Road / Bob McCannon Parkway	Unser Boulevard	Alamogordo Drive	1.9	Buffered Bike Lane	Plausible Near-Term	High	Restriping	Speed Reduction
Panmunjon Road / Hollywood Avenue / Marble Avenue	Mountain Road	14th Street	1.2	Bike Boulevard	Long-Term	High	Bike Boulevard	
Paradise Boulevard	Chaparral Street	Paseo del Norte Northwest	0.2	Sidepath	Long-Term	Medium	Curblin and/or Median Modifications	
Parsifal Street / Moon Street	Paseo de las Montañas Trail	Academy Road	3.6	Bike Boulevard, Bike Lane, Sidepath	Long-Term	Very High	Bike Boulevard	Restriping, Improve Available Back-of-Curb
Paseo de la Mesa	Atrisco Vista Boulevard	Paseo de la Mesa Trailhead	0.1	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
Paseo de las Montañas Trail / Embudo Recreation Trail	Hendola Drive	Marie Park Drive	0.0	Paved Multi-Use Trail Crossing	Long-Term	Very High	Enhanced Crossing	
Paseo del Nordeste Trail	Carlisle Boulevard	Pennsylvania Street	0.0	Paved Multi-Use Trail Crossing	Long-Term	Very High	Enhanced Crossing	
Paseo del Norte	Calle Norteña	Golf Course Road	0.8	Separated Bike Lane	Plausible Near-Term	Medium	Additional vertical separation	
Paseo del Norte	Universe Boulevard	Eagle Ranch Road	4.9	Sidepath	Long-Term	High	Future Roadway / Street Frontage Buildout	Improve Available Back-of-Curb
Paseo del Norte	I-25 Frontage Road NB	Eubank Boulevard	4.6	Sidepath	Long-Term	Very High	Peer Agency Led	
Paseo del Norte Trail	Rio Grande Boulevard	El Pueblo Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	





Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Pennsylvania Street	Marble Avenue	Menaul Boulevard	1.5	Buffered Bike Lane, Bike Lane, Separated Bike Lane	Plausible Near-Term	High	Restriping	Speed Reduction
Pennsylvania Street	South of Comanche Road	Montgomery Boulevard	0.7	Buffered Bike Lane	Plausible Near-Term	High	Restriping	
Piedras Marcadas Park Trail	Golf Course Road	Rancho Sereno Road	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Piedras Marcadas Trail	Ventana Ranch Road	Universe Boulevard	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Pino Arroyo Trail / Quintessence Trail	San Pedro Drive	Toulon Drive	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	High	Enhanced Crossing	
Prospect Avenue / Cutler Avenue	Morningside Drive	San Pedro Drive	1.4	Bike Boulevard, Bike Lane	Plausible Near-Term	Very High	Bike Boulevard	Restriping
Rainbow Boulevard	Unser Boulevard	Volcano Vista High School	0.8	Sidepath	Long-Term	Medium	Future Roadway / Street Frontage Buildout	Improve Available Back-of-Curb
Randolph Road / Alamo Avenue	University Boulevard	Girard Boulevard	1.1	Buffered Bike Lane, Bike Lane, Bike Boulevard	Plausible Near-Term	High	Restriping	Future Roadway / Street Frontage Buildout
Renaissance Boulevard	Alexander Boulevard (south of Montaña Road)	Alexander Boulevard (north of Montaña Road)	1.0	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	Future Roadway / Street Frontage Buildout
Richmond Drive	Menaul Boulevard	Candelaria Road	0.5	Bike Lane	Plausible Near-Term	Medium	Restriping	
Rio Bravo Boulevard	Isleta Boulevard	2nd Street	2.5	Sidepath	Plausible Near-Term	Medium	Peer Agency Led	
Rockwood Road	Rolling Rock Place / Unser Boulevard Access	Seven Falls Place / Trail Access	0.4	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Rosa Parks Road	Unser Boulevard	Calle Norteña	0.6	Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Rosa Parks Road	Kimmick Drive	Calle Norteña	0.3	Sidepath	Plausible Near-Term	Medium	Future Roadway / Street Frontage Buildout	
Rough Rider Road / Pioneer Trail	Barstow Street	Ventura Street	0.6	Bike Boulevard, Bike Lane	Plausible Near-Term	Medium	Bike Boulevard	Restriping
Rover Avenue	Tramway Boulevard	Monte Largo Drive	0.3	Bike Lane	Plausible Near-Term	Medium	Restriping	
Rutledge Street / Washington Street / Ellison Street	North Diversion Channel Trail Access	Jefferson Street	1.2	Enhanced Bike Route, Bike Lane	Plausible Near-Term	Medium	Enhanced Bike Route	Speed Reduction, Restriping



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Sage Road	East of Unser Boulevard	Old Coors Drive	1.1	Separated Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Sage Road / De Vargas Road	Del Mastro Drive	Corel Drive/Unser Boulevard	1.4	Separated Bike Lane	Plausible Near-Term	High	Restriping - Road Diet	Restriping
Saint Josephs Drive	Saint Joseph's Avenue	Alamogordo Drive	0.7	Separated Bike Lane	Long-Term	Medium	Restriping - Road Diet	Future Roadway / Street Frontage Buildout, Median Modifications
San Antonio Drive / Ellison Street	I-25 Frontage Road SB	I-25 Frontage Road NB	0.1	Sidepath	Long-Term	Medium	Curblin and/or Median Modifications	
San Diego Avenue	Balloon Museum Drive	San Mateo Boulevard	0.4	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
San Francisco Road / Coronado Avenue	San Pedro Drive	Eubank Boulevard	2.7	Bike Lane, Bike Boulevard, Buffered Bike Lane	Plausible Near-Term	High	Restriping	Bike Boulevard, Speed Reduction
San Francisco Road I-25 Crossing	Jefferson Street	I-25 NB Frontage Road	0.5	Sidepath, Paved Multi-Use Trail	Long-Term	Medium	Feasibility Analysis	
San Ildefonso Drive	Montaño Road	Mojave Street	0.5	Buffered Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping
San Isidro Street / Guadalupe Trail	Indian School Road	Grecian Avenue	2.8	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	
San Jose Drain	Rio Bravo Boulevard / 2nd Street	City Limits	1.5	Paved Multi-Use Trail, Sidepath	Long-Term	Medium	Peer Agency Led	
San Jose Drain	City Limits	Bethel Avenue	0.6	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
San Mateo Boulevard	Wilshire Avenue	Balloon Fiesta Parkway	1.2	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	Medium	Restriping - Road Diet	Restriping
San Pablo Street / Charleston Street / Mesilla Street	Southern Avenue	Constitution Avenue	2.3	Bike Boulevard	Long-Term	Very High	Bike Boulevard	
San Pedro Drive	Domingo Baca Trail	I-25 / Balloon Fiesta Parkway	1.5	Buffered Bike Lane, Bike Lane, Separated Bike Lane	Long-Term	Medium	Speed Reduction	
San Pedro Drive	Ridgecrest Drive	Osuna Road	6.1	Buffered Bike Lane	Plausible Near-Term	Very High	Speed Reduction	Restriping, Restriping - Road Diet
San Pedro Drive	Domingo Baca Trail	Carmel Avenue	0.3	Separated Bike Lane	Long-Term	Medium	Separated Intersection	
San Pedro Drive / Forest Hills Drive	Barnhart Street	Domingo Baca Trail	1.3	Buffered Bike Lane, Separated Bike Lane, Bike Lane	Plausible Near-Term	Medium	Restriping	Speed Reduction
Santa Clara Avenue	Yale Boulevard	Wellesley Drive	0.8	Bike Boulevard, Bike Lane	Plausible Near-Term	High	Bike Boulevard	Restriping



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Santa Fe Avenue	12th Street / Bosque Trail Access	2nd Street	0.6	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	
Seagull Street	Osuna Road	Academy Road	0.2	Buffered Bike Lane	Plausible Near-Term	High	Restriping	
Sequoia Road	Ladera Drive	Vista Grande Drive	0.7	Separated Bike Lane, Bike Lane, Enhanced Bike Route	Long-Term	High	Restriping	Restriping - Road Diet, Enhanced Bike Route
Seven Bar Loop	Coors Boulevard Bypass	Coors Boulevard	0.6	Buffered Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping - Road Diet
Signal Avenue	Barstow Street	Ventura Street	0.5	Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
Silver Avenue	2nd Street	University Boulevard	1.1	Bike Boulevard, Separated Two-Way Cycle Track, Sidepath	Plausible Near-Term	Very High	Bike Boulevard	Restriping, Improve Available Back-of-Curb, Improve Existing Sidewalk / Trail Connection
Silver Charm Road	Juan Tabo Boulevard	Gulf Stream Street	0.2	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Simms Park Road	Tramway Boulevard	Elena Gallegos Open Space	1.4	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	Speed Reduction
Snow Vista Trail Connection	Duke Avenue	Eucariz Avenue	0.2	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
South Diversion Channel Trail	Rio Bravo Boulevard	Basehart	3.6	Paved Multi-Use Trail	Long-Term	High	Paved Multi-Use Trail	
Spain Road / Knight Road	Academy Road	Tramway Boulevard	3.1	Buffered Bike Lane, Separated Bike Lane, Bike Lane	Plausible Near-Term	High	Restriping	Speed Reduction
Spring Flower Road / Desert Breeze Drive	Unser Boulevard	Trail Access	0.4	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Stagecoach Road / Wagon Train Drive	Four Hills Road	Four Hills Road	3.7	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Stanford Drive	Marble Avenue	Indian School Road	0.7	Bike Lane, Bike Boulevard	Plausible Near-Term	Medium	Restriping	Bike Boulevard
Stanford Drive / Columbia Drive	Gibson Boulevard	Central Avenue	1.6	Bike Boulevard	Plausible Near-Term	Very High	Bike Boulevard	
Summer Avenue / Mackland Avenue / Marble Avenue	Stanford Drive / North Diversion Channel Trail	Louisiana Boulevard / I-40 Trail Bridge	3.4	Bike Boulevard, Bike Lane	Long-Term	Very High	Bike Boulevard	Restriping
Sunport Boulevard	I-25 NB Frontage Road	Transport Street	0.1	Sidepath	Plausible Near-Term	Medium	Improve Available Back-of-Curb	



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Sunport Loop / Yale Boulevard	Randolph Road	Girard Boulevard	0.8	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Tanager Drive	Red Robin Road	Tower Road	0.5	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Taylor Ranch Road	North of Homestead Circle	East of Golf Course Road	0.4	Buffered Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping - Road Diet, Restriping
Taylor Ranch Road	Montaño Road	Montaño Plaza Drive	0.4	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
Tesuque Drive	Montaño Road	Homestead Circle	1.2	Bike Boulevard	Plausible Near-Term	Medium	Bike Boulevard	
Tiburon Street / Headline Boulevard	Tiburon Street, El Pueblo Road	Headline Boulevard	0.8	Buffered Bike Lane, Enhanced Bike Route	Plausible Near-Term	Medium	Restriping	Enhanced Bike Route
Tierra Pintada Boulevard	Watershed Drive	Unser Boulevard	0.6	Separated Bike Lane	Long-Term	Medium	Median Modifications	
Tijeras Arroyo Trail	Innovation Parkway	Juan Tabo Boulevard	0.6	Paved Multi-Use Trail	Long-Term	Medium	Paved Multi-Use Trail	
Tom Bolack Park Trail	San Pedro Drive	Paseo de las Montañas Trail	0.3	Paved Multi-Use Trail	Long-Term	High	Paved Multi-Use Trail	
Tomasita Street / Martha Street	I-40 Trail Bridge	Gretta Street / Prospect Avenue	2.0	Bike Boulevard	Plausible Near-Term	High	Bike Boulevard	
Tony Sanchez Drive / Singing Arrow Avenue	Innovation Parkway	East of Dorado Place	1.6	Bike Boulevard, Bike Lane, Buffered Bike Lane	Long-Term	High	Restriping	Bike Boulevard
Tower Road	106th Street	Bridge Boulevard	2.9	Buffered Bike Lane, Separated Bike Lane	Plausible Near-Term	Very High	Speed Reduction	Restriping, Restriping - Road Diet
Tramway Boulevard	Wenonah Avenue	Central Avenue	0.2	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	
Trumbull Avenue	Valverde Drive	Eubank Boulevard	3.7	Bike Boulevard, Sidepath	Long-Term	Very High	Bike Boulevard	Improve Available Back-of-Curb
Turner Drive	Encantado Road	Lomas Boulevard	0.8	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Universe Boulevard	Rainbow Boulevard	Paseo del Norte	2.8	Sidepath	Long-Term	Medium	Future Roadway / Street Frontage Buildout	
University Boulevard	South of Gibson Boulevard	Lomas Boulevard	2.6	Separated Bike Lane, Bike Boulevard	Plausible Near-Term	Very High	Restriping - Road Diet	Bike Boulevard
University Boulevard	Arbus Drive	Stryker Road	0.4	Buffered Bike Lane	Long-Term	Medium	Restriping - Road Diet	
University Boulevard	Arbus Drive	Crick Avenue	1.5	Sidepath	Plausible Near-Term	Medium	Future Roadway / Street Frontage Buildout	
University Boulevard	Clark Carr Road	Aircraft Avenue	1.3	Sidepath	Long-Term	Medium	Improve Available Back-of-Curb	



Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
UNM South Campus Trail	Gibson Boulevard	Buena Vista Drive	0.7	Paved Multi-Use Trail	Long-Term	High	Paved Multi-Use Trail	
Unser Boulevard	Montaño Road	Paradise Boulevard	6.6	Sidepath	Long-Term	High	Future Roadway / Street Frontage Buildout	Improve Available Back-of-Curb
Unser Boulevard	Irving Boulevard	Existing Sidepath	0.1	Sidepath	Plausible Near-Term	Medium	Improve Available Back-of-Curb	
Uptown Boulevard	San Pedro Drive	Louisiana Boulevard	0.5	Buffered Bike Lane	Plausible Near-Term	High	Restriping - Road Diet	
Uptown Loop / Americas Parkway	Loop	Loop	1.3	Buffered Bike Lane	Plausible Near-Term	High	Restriping - Road Diet	Speed Reduction
Utah Street	Southern Avenue	Marble Avenue / Charleston Street	1.9	Bike Boulevard, Bike Lane	Long-Term	High	Bike Boulevard	Restriping
Ventana Ranch East Trails	Paradise Boulevard	Irving Boulevard	1.8	Paved Multi-Use Trail	Plausible Near-Term	Medium	Paved Multi-Use Trail	
Ventana Ranch South Trail	Ventana West Parkway	Hearthstone Road	0.4	Paved Multi-Use Trail	Plausible Near-Term	Medium	Paved Multi-Use Trail	
Ventana Ranch Trail	Rainbow Boulevard	-	0.0	Paved Multi-Use Trail Crossing	Plausible Near-Term	Medium	Enhanced Crossing	
Ventana West Parkway	Ventana Ranch South Trail	Paseo del Norte	0.3	Sidepath	Plausible Near-Term	Medium	Future Roadway / Street Frontage Buildout	
Ventura Street	Academy Road	Alameda Boulevard	2.3	Separated Bike Lane, Buffered Bike Lane	Plausible Near-Term	High	Restriping - Road Diet	Restriping, Future Roadway / Street Frontage Buildout
Villa Corrales	Vista del Norte Drive	Diversion Channel Trail Access	0.2	Enhanced Bike Route	Plausible Near-Term	Medium	Enhanced Bike Route	
Volcano Road	98th Street	94th Street	0.3	Sidepath	Long-Term	Medium	Future Roadway / Street Frontage Buildout	Improve Available Back-of-Curb
Washington Street	Indian School Road	Menaul Boulevard	0.5	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
Washington Street	Paseo del Norte Frontage Road	Alameda Boulevard	0.7	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
Washington Street / Montclair Drive	Menaul Boulevard	Montgomery Boulevard	1.7	Bike Boulevard, Sidepath	Long-Term	Very High	Bike Boulevard	Improve Available Back-of-Curb
Washington Street / Valverde Drive / Morningside Drive	Gibson Boulevard	Marquette Avenue	2.1	Bike Boulevard	Plausible Near-Term	Very High	Bike Boulevard	Speed Reduction
Wellesley Drive / Tulane Drive / Lafayette Drive	Gibson Boulevard	Indian School Road	2.9	Bike Boulevard, Sidepath	Long-Term	Very High	Bike Boulevard	Improve Existing Sidewalk / Trail Connection





Project / Location	From Street	To Street	Length (mi.)	Facility Type(s)	Timeframe	Priority Level	Primary Strategy	Secondary Strategies
Western Trail / Namaste Road	Unser Boulevard	Tres Gracias Drive / San Antonio Oxbow Open Space	1.2	Separated Bike Lane, Buffered Bike Lane, Enhanced Bike Route	Plausible Near-Term	Medium	Restriping - Road Diet	Restriping, Enhanced Bike Route
Westgate Community Park Trail	Delgado Drive	98th Street / Snow Vista Boulevard	0.9	Paved Multi-Use Trail	Plausible Near-Term	Medium	Paved Multi-Use Trail	
William Street	Woodward Road	Pacific Avenue / Edith Boulevard	2.0	Bike Boulevard, Bike Lane	Plausible Near-Term	High	Bike Boulevard	Restriping
Winter Haven Road	Montaño Plaza Drive	Bontierra Trail	0.4	Buffered Bike Lane	Plausible Near-Term	Medium	Restriping	
Wyoming Boulevard	Oakland Avenue	Beverly Hills Avenue	0.6	Separated Bike Lane	Long-Term	Medium	Future Roadway / Street Frontage Buildout	Restriping
Wyoming Boulevard	Palomas Avenue	Holly Avenue	0.2	Separated Bike Lane	Long-Term	Medium	Separated Intersection	
Wyoming Boulevard	Academy Road	Signal Avenue	3.2	Sidepath	Long-Term	High	Curblin and/or Median Modifications	Improve Available Back-of-Curb
Wyoming Boulevard	Bear Canyon Arroyo Trail	Spain Road	0.1	Sidepath	Plausible Near-Term	Medium	Improve Available Back-of-Curb	
Wyoming Boulevard	Signal Avenue	Oakland Avenue	0.2	Separated Bike Lane	Long-Term	Medium	Separated Intersection	
Yale Boulevard	Randolph Road	Gibson Boulevard	0.2	Buffered Bike Lane	Plausible Near-Term	Medium	Speed Reduction	Restriping - Road Diet
Yale Boulevard	Las Lomas Road	Tucker Avenue	0.4	Buffered Bike Lane, Bike Lane	Long-Term	High	Future Roadway / Street Frontage Buildout	Restriping

## Cost Estimates Notes and Assumptions

### General Considerations

Estimated costs are intended to be used for City project programming efforts and are representative of relative potential costs for each project and anticipated strategies for implementation. Assumptions are built in to account for construction cost contingencies and design fees, and a range has been provided for various project types based on the level of anticipated risk and uncertainty over the type of roadway improvements that are needed to implement bikeways.

Standard assumptions were applied for sidepaths, multi-use trails, and multi-use trail crossings; as a result, the 2024 Plan does not include low and high cost estimates for these project types. The cost estimates for these project types include materials and construction costs only. Right-of-way acquisition costs are excluded.

Costs are presented based on current dollars as of this plan release in 2024 and do not account for inflation for future years.

### Cost Estimate Ranges

**LOW** = The low end of the estimated cost range could be used for implementation efforts in which the following assumptions may apply:

- Existing pavement is in good condition
- Traffic signal infrastructure at intersections is relatively new
- Potential to use quick-build style construction materials
- Simple geometry and feasibility is anticipated

Some costs could be lower if the project is implemented opportunistically as part of the Annual Complete Streets Maintenance program or other resurfacing and restriping efforts.

**HIGH** = The high end of the estimated cost range could be used for implementation efforts in which the following assumptions may apply:

- Existing pavement is in poor condition
- Traffic signal infrastructure at intersections is outdated
- Robust construction materials are desired
- More complex geometry and risks are anticipated

Some costs could be higher, and additional study for feasibility is recommended.

### Exclusions

Items excluded from the cost estimates include:

- Right-of-way acquisition
- Utility relocations
- Other location-specific circumstantial conditions

Cost estimates are not provided for the following:

- Partner-led projects
- Projects in progress at the time of plan adoption
- Projects that require a high level of engineering analysis and/pr feasibility assessments

# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN

## APPENDIX G: PROJECT PROFILES





# Academy Road from Wyoming Blvd. to Tramway Blvd.

## Project Characteristics

### Existing Conditions

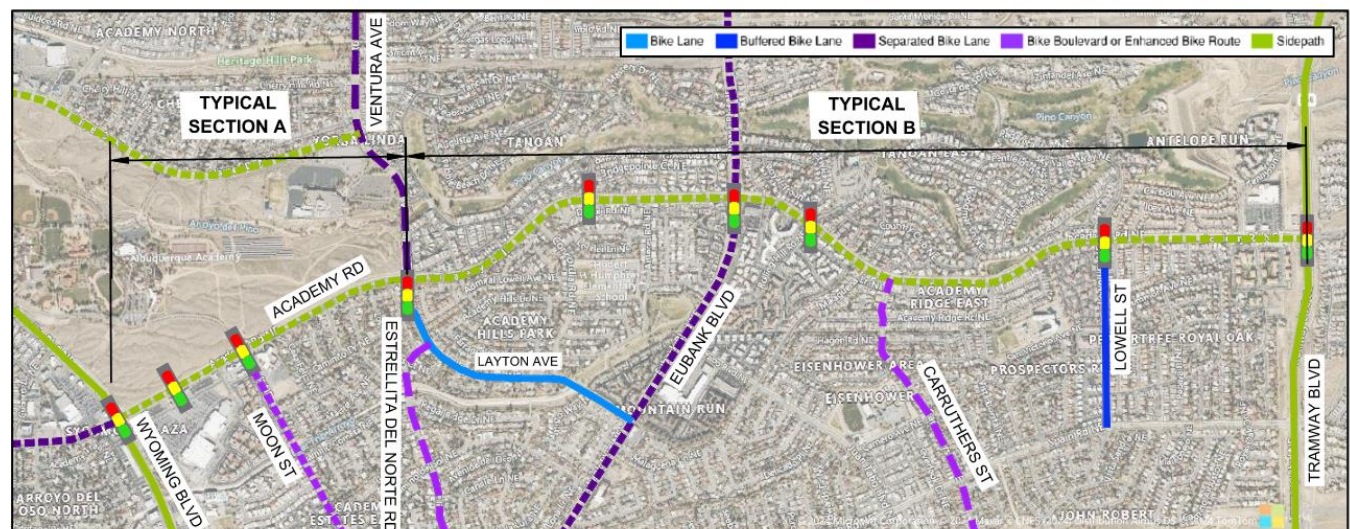
Typical Section	Section A	Section B
Termini / Length (miles)	0.9	3.5
Existing Facility	Bike lane	None
Speed Limit (mph)	40	40
Traffic Volumes (AWDT)	22,000	11,000 - 19,000
LTS (Level of Traffic Stress)	4	4

### Proposed Facility

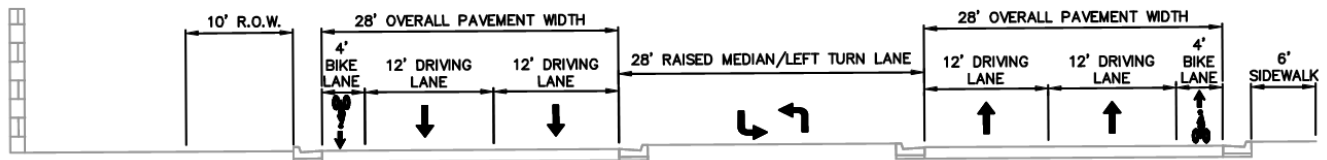
Facility Type	Side Path
Timeframe	Long Term
Cost Estimate	\$36.9M+
Strategies	Improve Available Back-of-Curb, Median and Curb Line Modifications
Priority Level	Very High

## Notes and Considerations:

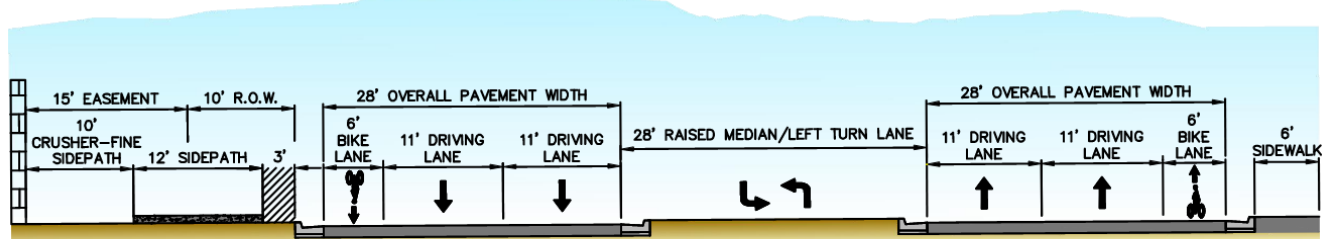
- **Functional Classification:** Minor arterial
- **Project Benefits:** High trip potential; high crash rates, significant improvement bicyclist user comfort
- **Vulnerability Index Score:** Medium
- **Destinations:** Passes along Mountain Run Activity Center
- **Council Districts:** 4 and 8
- **Other:** Road Diet Candidate



## Section A



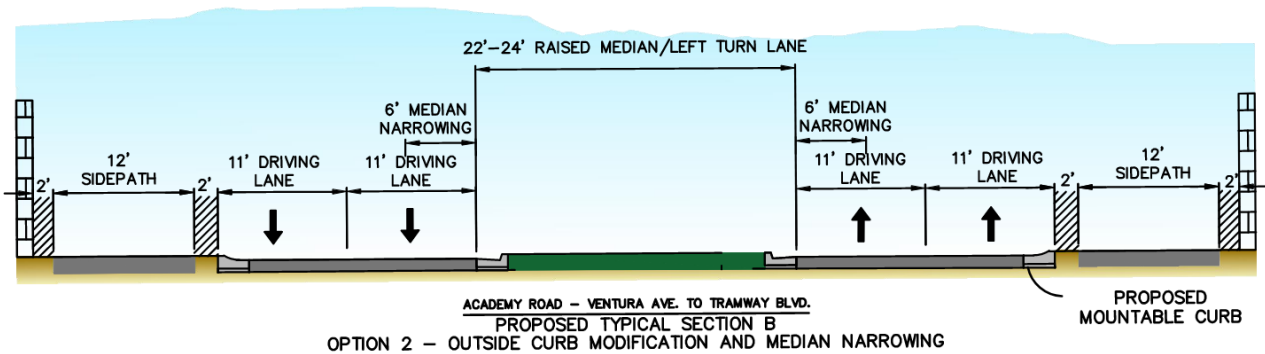
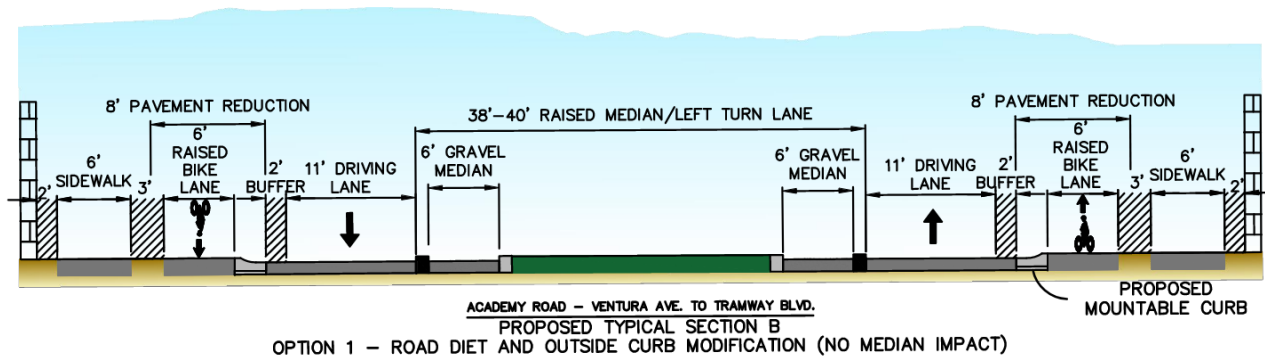
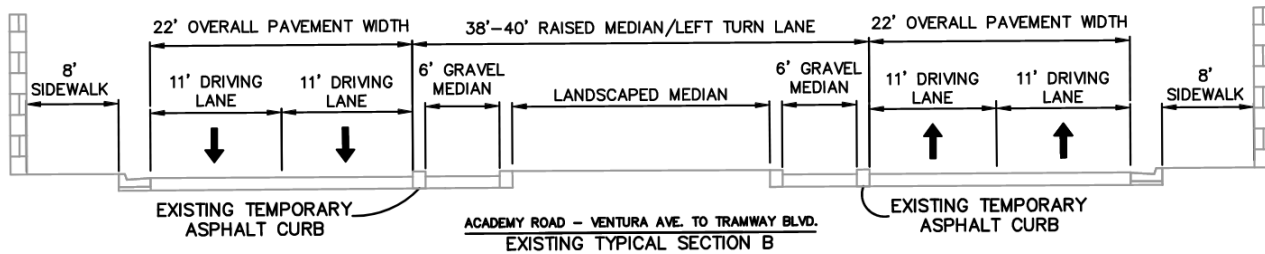
ACADEMY ROAD - WYOMING BLVD. TO VENTURA AVE.  
EXISTING TYPICAL SECTION A



ACADEMY ROAD - WYOMING BLVD. TO VENTURA AVE.  
PROPOSED TYPICAL SECTION A

## Academy Road from Wyoming Blvd. to Tramway Blvd.

### Section B





## Alvarado Drive from Summer Ave. to Maderia Dr.

### Project Characteristics

#### Existing Conditions

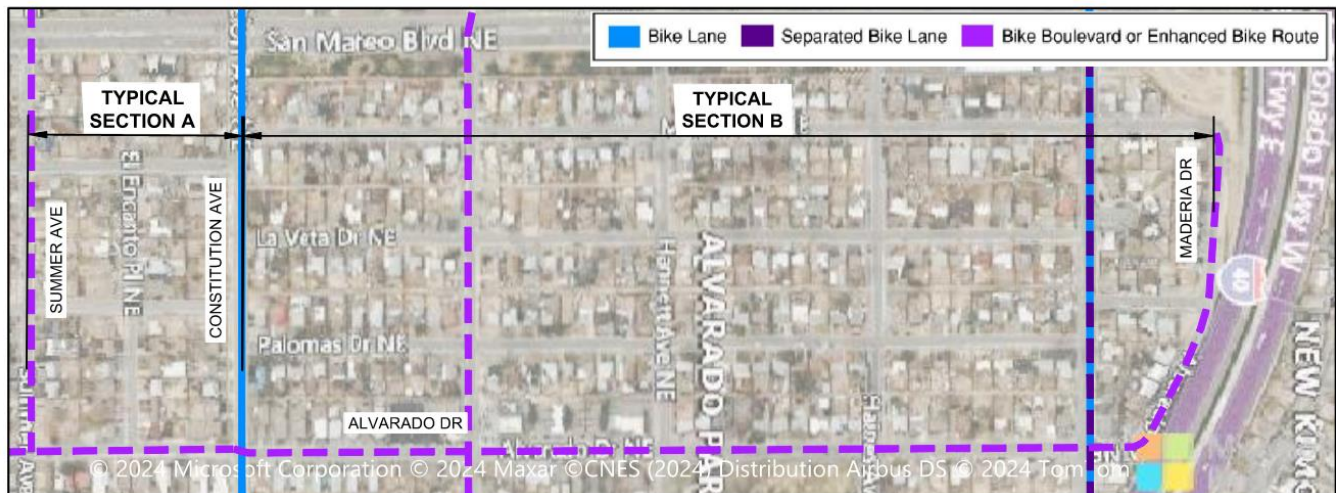
Typical Section	Section A	Section B
Termini / Length (miles)	0.1	0.7
Existing Facility	None	None
Speed Limit (mph)	25	25
Traffic Volumes (AWDT)	Unavailable	Unavailable
LTS (Level of Traffic Stress)	1	1

#### Proposed Facility

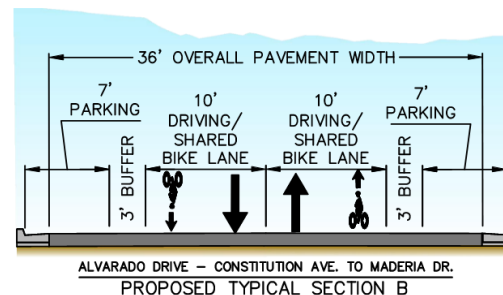
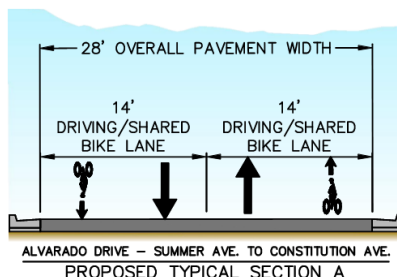
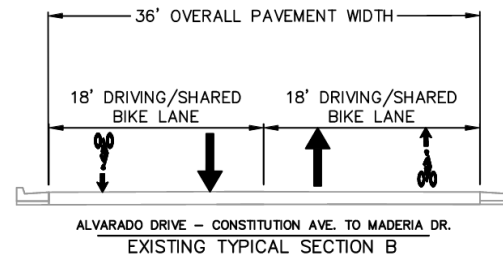
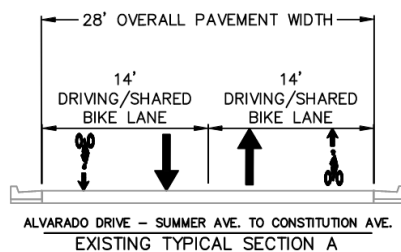
Facility Type	Bike Boulevard
Timeframe	Long Term
Cost Estimate	\$1.2M - \$2.0M
Strategies	Bike Boulevard
Priority Level	Very High

### Notes and Considerations:

- **Functional Classification:** Major local
- **Project Benefits:** Proposed network spine, high trip potential; high rates of crashes on parallel corridors
- **Vulnerability Index Score:** High
- **Destinations:** Passes along Hiland Center Activity Center
- **Council Districts:** 7
- **Other:** Extension of existing bike boulevard



### Sections A & B



# Alvarado Drive from Eastern Ave. to Copper Ave.

## Project Characteristics

### Existing Conditions

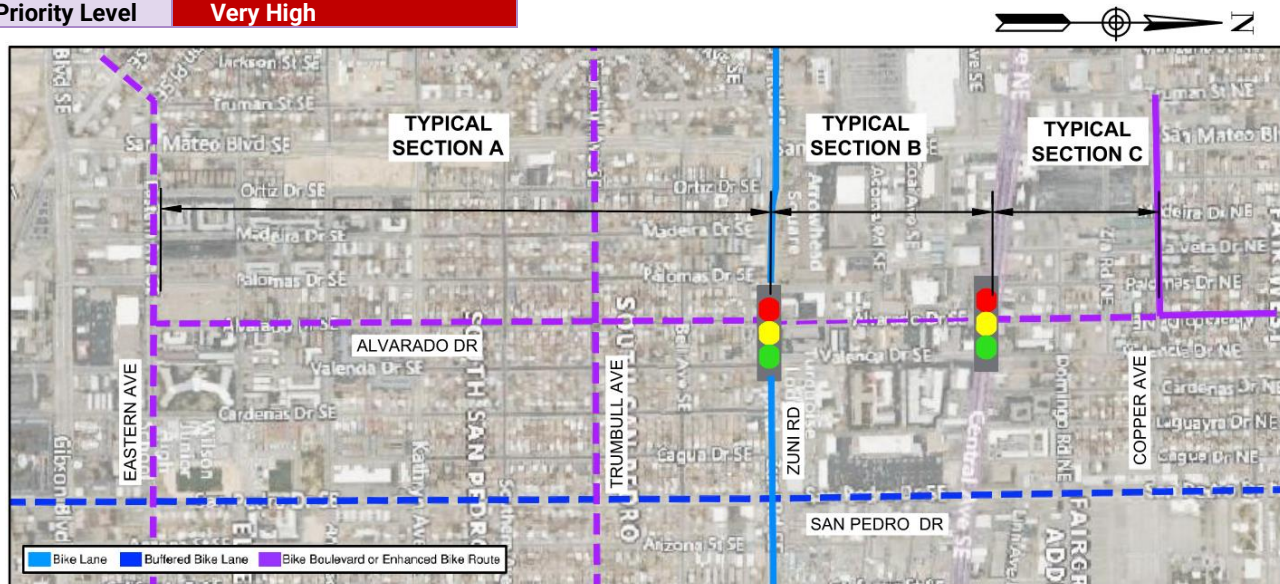
Typical Section	Section A	Section B	Section C
Termini / Length (miles)	0.2	0.3	0.9
Existing Facility	None	None	None
Speed Limit (mph)	25	25	25
Traffic Volumes (AWDT)	Unavailable	Unavailable	Unavailable
LTS (Level of Traffic Stress)	1	1	1

### Proposed Facility

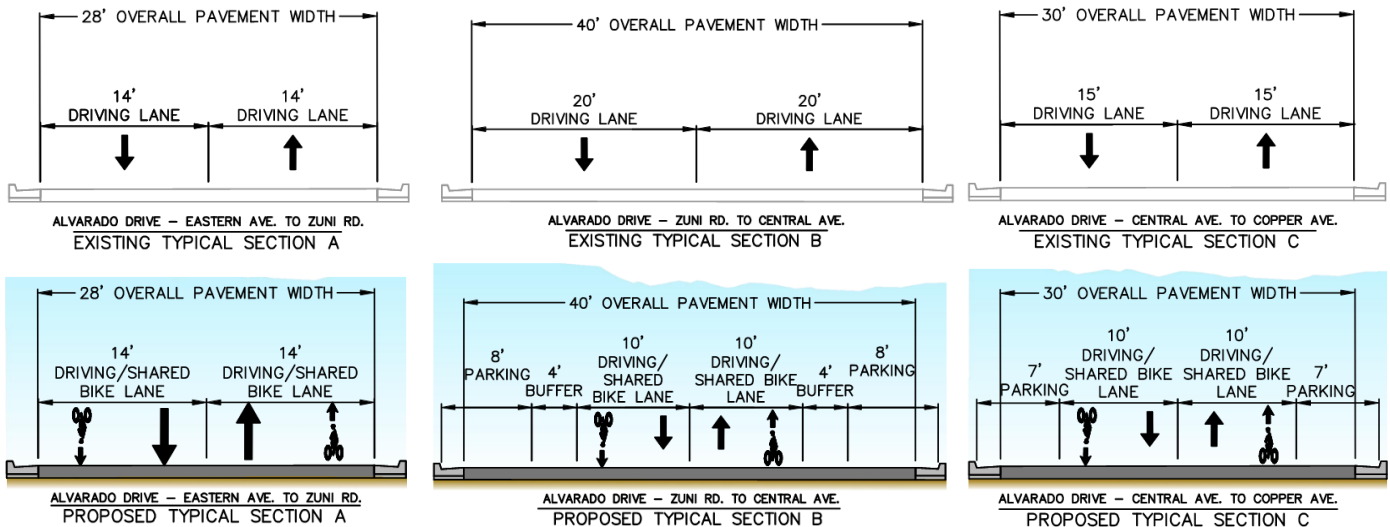
Facility Type	Bike Boulevard
Timeframe	Long Term
Cost Estimate	\$2.0M - \$3.5M
Strategies	Bike Boulevard
Priority Level	Very High

## Notes and Considerations:

- **Functional Classification:** Major local
- **Project Benefits:** Proposed network spine, high trip potential; high rates of crashes on parallel corridors
- **Vulnerability Index Score:** Medium-High
- **Destinations:** Hiland Center, Central Ave. Corridor
- **Council Districts:** 6 and 7
- **Other:** Extension of existing bike boulevard



## Sections A, B, & C





# Bluewater Road from 98<sup>th</sup> St. to Coors Blvd.

## Project Characteristics

### Existing Conditions

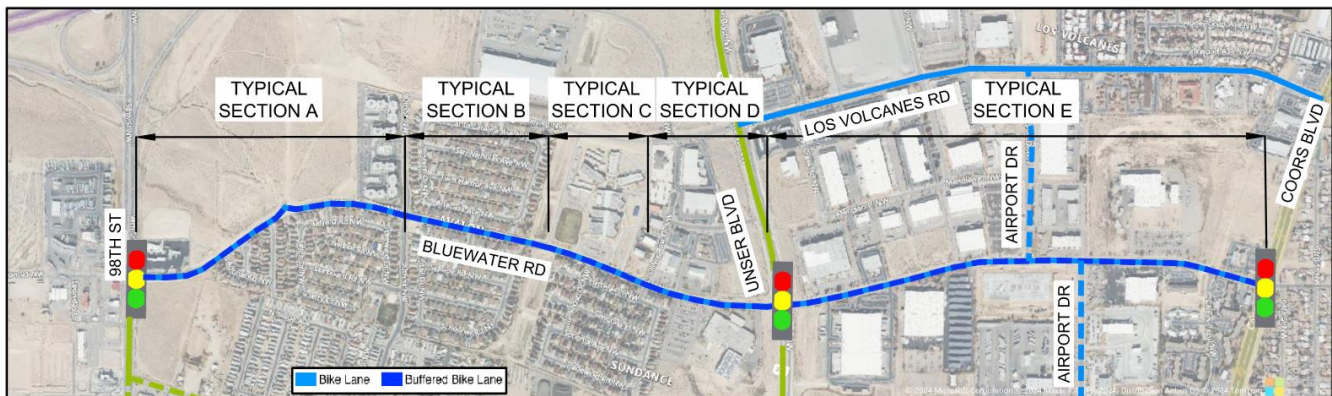
Typical Section	Section A	Section B	Section C	Section D	Section E
Termini / Length (miles)	0.5	0.2	0.2	0.2	0.9
Existing Facility	Bike Lane	Bike Lane	Bike Lane	None	Bike Lane
Speed Limit (mph)	35	35	35	40	40
Traffic Volumes (AWDT)	Unavail.	7,000	7,000	7,000	10,000
LTS (Level of Traffic Stress)	3	3	3	4	3

### Proposed Facility

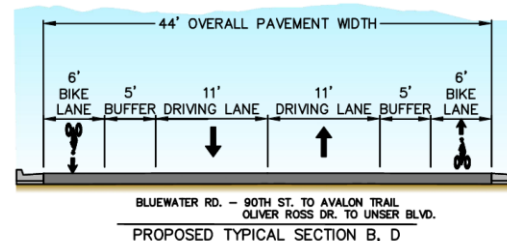
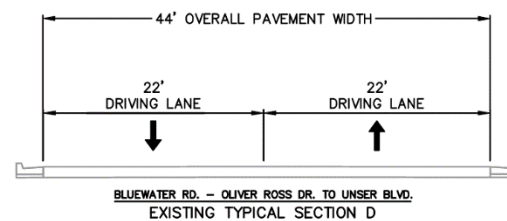
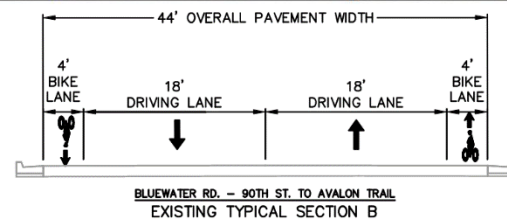
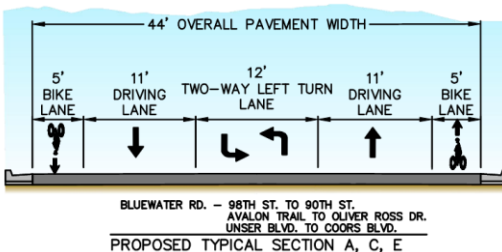
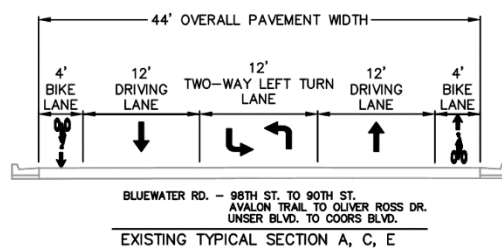
Facility Type	Bike Lanes, Buffered Bike Lanes
Timeframe	Plausible Near-Term
Cost Estimate	\$1.3M - \$5.1M
Strategies	Bike Lane Restriping, Speed Reduction
Priority Level	High

## Notes and Considerations:

- **Functional Classification:** Major Collector
- **Project Benefits:** High trip potential; proposed network spine
- **Vulnerability Index Score:** High
- **Destinations:** Near Route 66 Activity Center, multiple schools
- **Council Districts:** 1



## Sections A - E



# Candelaria Road from Rio Grande Blvd. to I-25

## Project Characteristics

### Existing Conditions

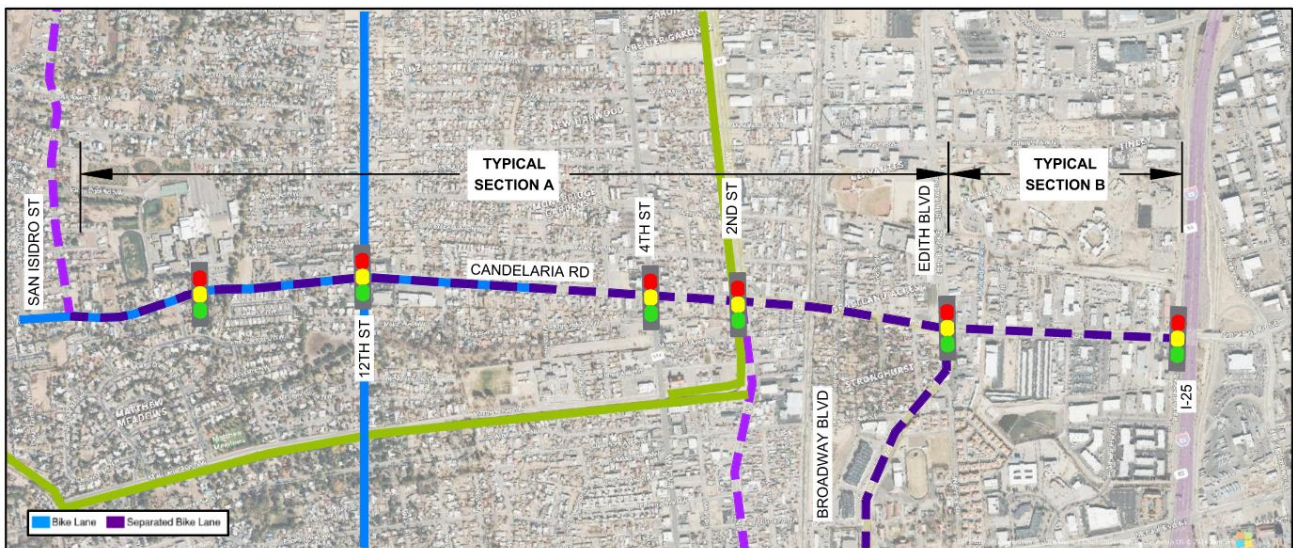
Typical Section	Section A	Section B
Termini / Length (miles)	1.9	0.5
Existing Facility	Bike Lane	None
Speed Limit (mph)	35	35
Traffic Volumes (AWDT)	11,000	16,000
LTS (Level of Traffic Stress)	3	4

### Proposed Facility

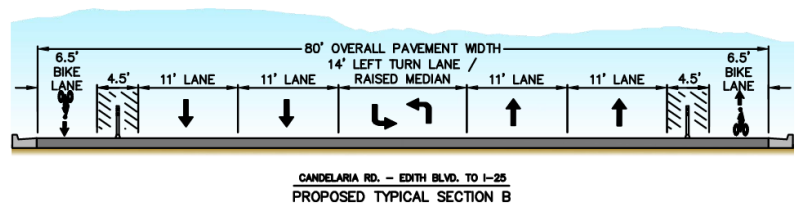
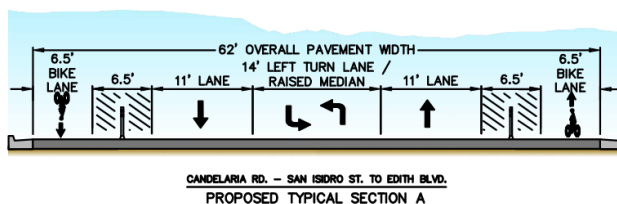
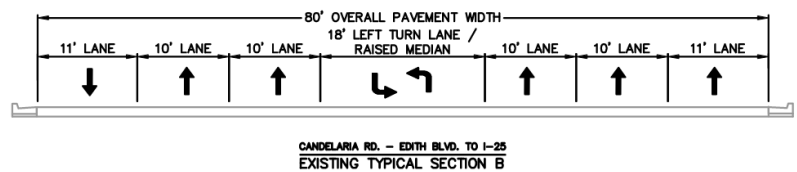
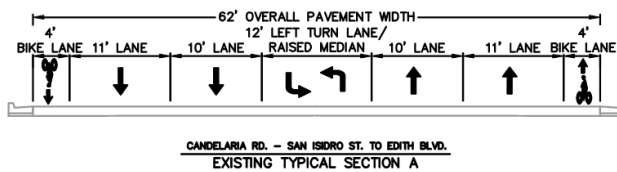
Facility Type	Separated Bike Lanes
Timeframe	Plausible Near-Term
Cost Estimate	\$3.3M - \$9.3M
Strategies	Restriping – Road Diet
Priority Level	Medium

## Notes and Considerations:

- **Functional Classification:** Principal Arterial
- **Project Benefits:** Network spine, major improvement to bicycle level of comfort, high level of public support
- **Vulnerability Index Score:** High
- **Destinations:** Rio Grande Nature Center, 12<sup>th</sup>/Candelaria Activity Center
- **Council Districts:** 2
- **Other:** Road Diet Candidate



## Sections A & B





# Comanche Road from Montgomery Park to Tramway Blvd.

## Project Characteristics

### Existing Conditions

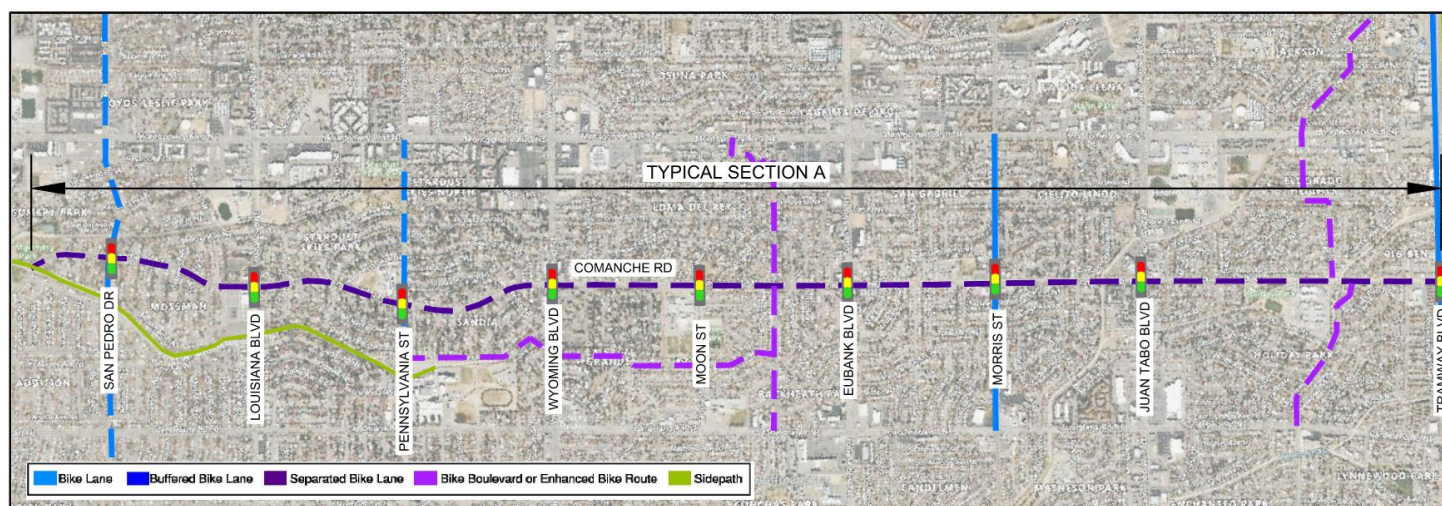
Typical Section	Section A
Termini / Length (miles)	5
Existing Facility	Bike Lane
Speed Limit (mph)	35
Traffic Volumes (AWDT)	12,000
LTS (Level of Traffic Stress)	3

### Proposed Facility

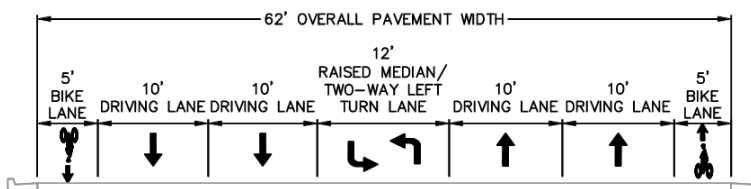
Facility Type	Separated Bike Lanes
Timeframe	Plausible Near-Term
Cost Estimate	\$6.9M - \$20.2M
Strategies	Restriping – Road Diet
Priority Level	Very High

## Notes and Considerations:

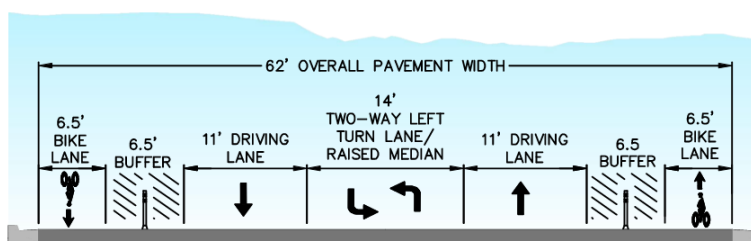
- **Functional Classification:** Major Collector
- **Project Benefits:** Network spine, major improvement to bicycle level of comfort, high level of public support
- **Vulnerability Index Score:** High
- **Destinations:** Multiple schools
- **Council Districts:** 7 and 8
- **Other:** Road Diet Candidate



## Section A



COMANCHE RD. – MONTGOMERY PARK TO TRAMWAY BLVD.  
EXISTING TYPICAL SECTION



COMANCHE RD. – MONTGOMERY PARK TO TRAMWAY BLVD.  
PROPOSED TYPICAL SECTION



# Irving Boulevard from Golf Course Rd. to Coors Blvd.

## Project Characteristics

### Existing Conditions

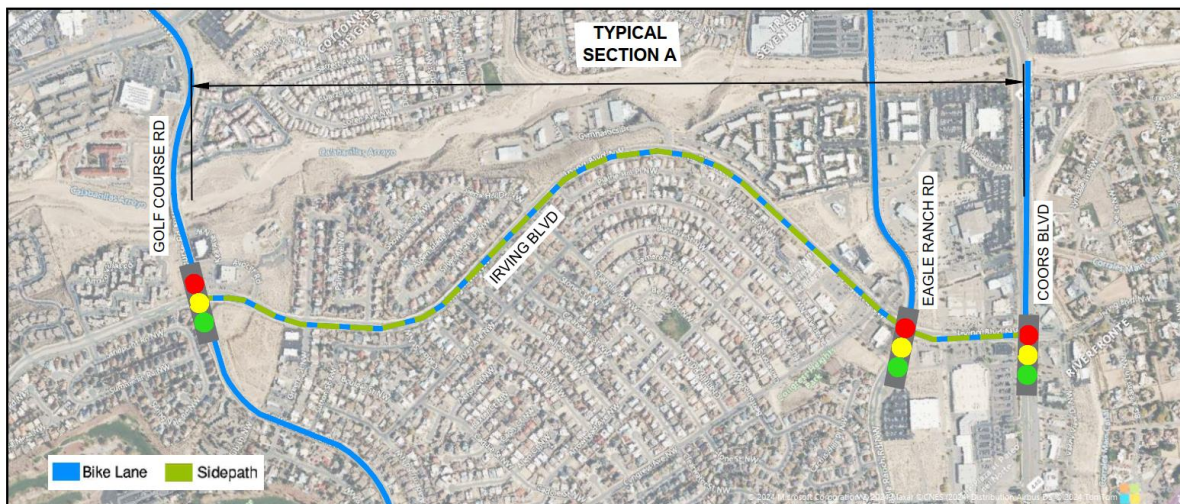
Typical Section	Section A
Termini / Length (miles)	1.6
Existing Facility	Bike Lanes
Speed Limit (mph)	40
Traffic Volumes (AWDT)	20,000
LTS (Level of Traffic Stress)	4

### Proposed Facility

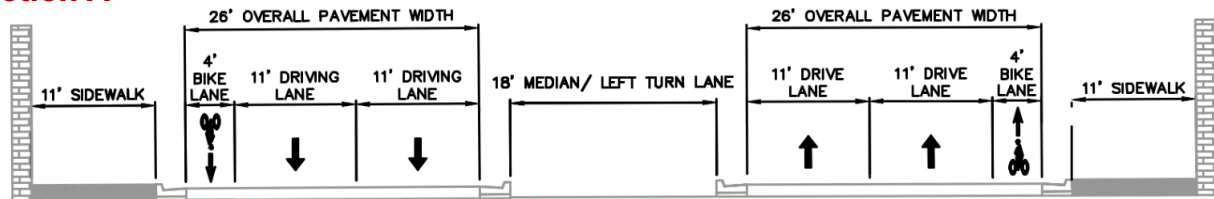
Facility Type	Side Path
Timeframe	Long Term
Cost Estimate	\$7.6M+
Strategies	Improve Available Back- of-Curb, Curb Line and Median Modifications
Priority Level	High

## Notes and Considerations:

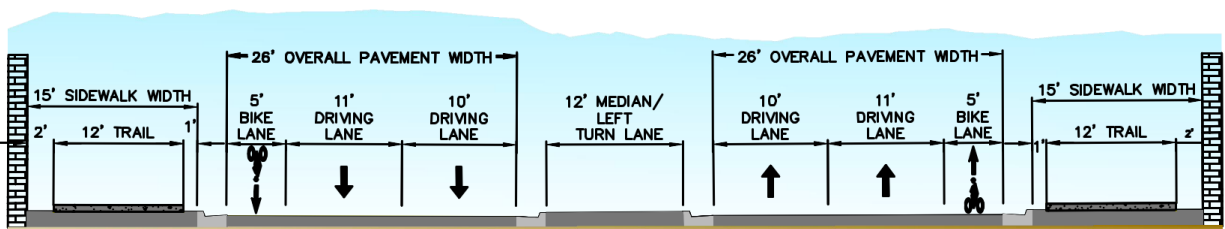
- **Functional Classification:** Principal Arterial
- **Project Benefits:** High trip potential; Major improvement to bicyclist level of comfort
- **Vulnerability Index Score:** Medium
- **Destinations:** Coors/Paseo Activity Center
- **Council Districts:** 5
- **Other:** Road Diet Candidate



## Section A



IRVING BLVD. - GOLF COURSE RD. TO COORS BLVD.  
EXISTING TYPICAL SECTION



IRVING BLVD. - GOLF COURSE RD. TO COORS BLVD.  
PROPOSED TYPICAL SECTION

# Irving Boulevard from Unser Blvd. to Rio De Los Pinos Dr.

## Project Characteristics

### Existing Conditions

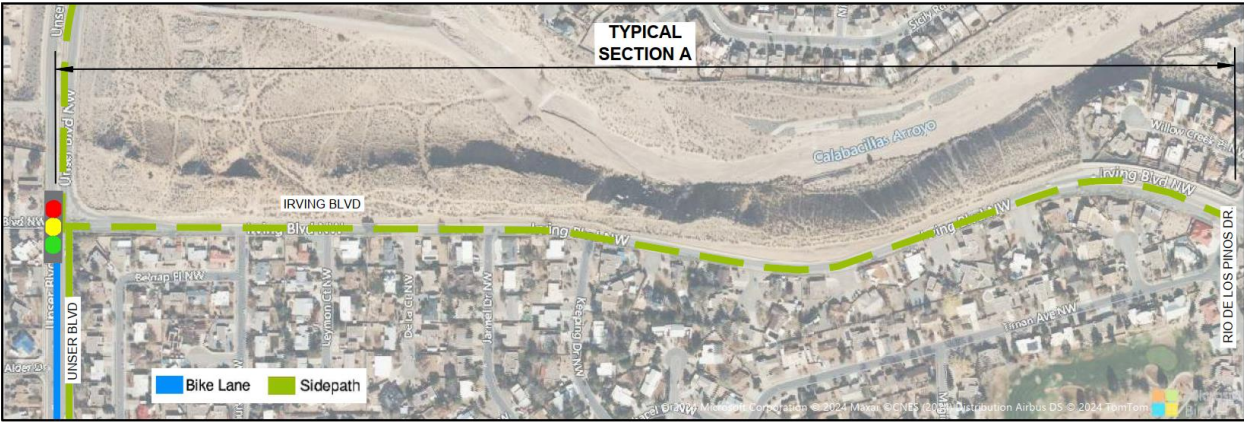
Typical Section	Section A
Termini / Length (miles)	0.8
Existing Facility	None
Speed Limit (mph)	30
Traffic Volumes (AWDT)	10,000
LTS (Level of Traffic Stress)	4

### Proposed Facility

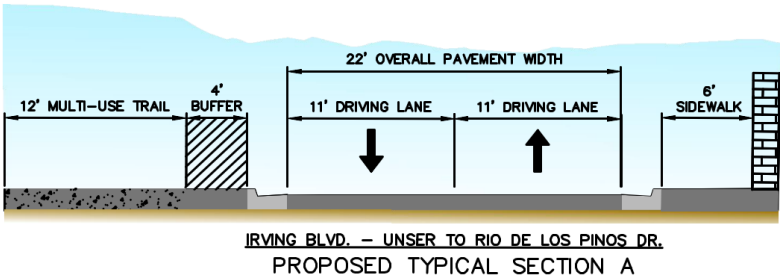
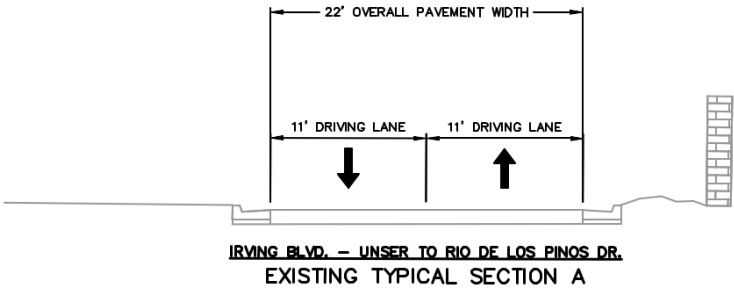
Facility Type	Side Path
Timeframe	Long Term
Cost Estimate	\$1.2M+
Strategies	Improve Available Back- of-Curb
Priority Level	Medium

## Notes and Considerations:

- **Functional Classification:** Principal Arterial
- **Project Benefits:** High trip potential; Major improvement to bicyclist level of comfort
- **Vulnerability Index Score:** Medium
- **Destinations:** N/A
- **Council Districts:** 5



## Section A





# Ladera Drive from Ouray Rd. to Arroyo Vista Blvd.

## Project Characteristics

### Existing Conditions

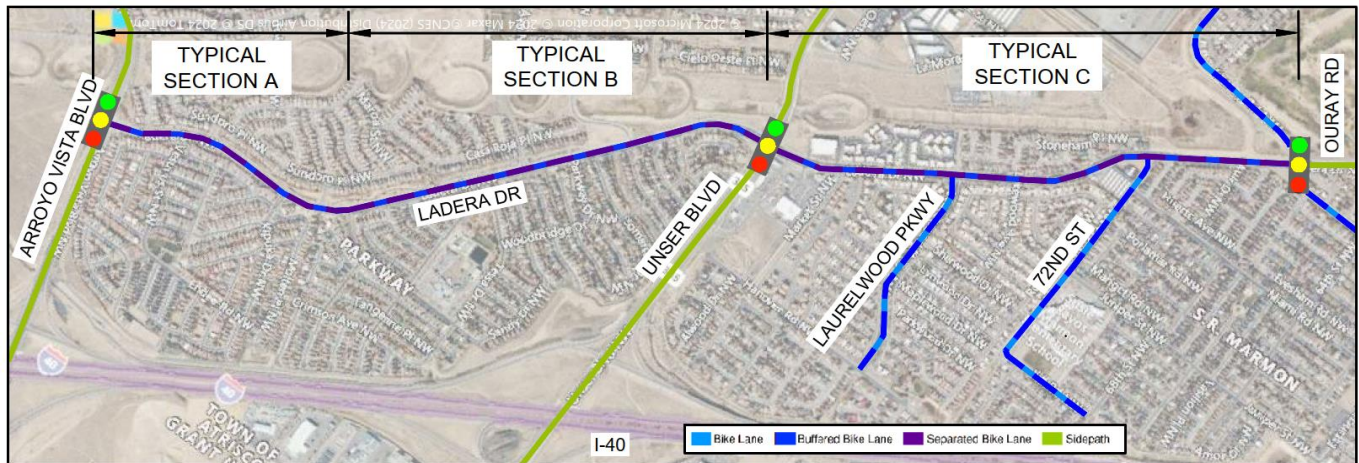
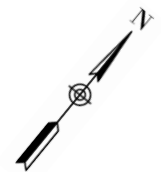
Typical Section	Section A	Section B	Section C
Termini / Length (miles)	1.1	0.9	0.5
Existing Facility	Buffered Bike Lane	Buffered Bike Lane	Bike Lane
Speed Limit (mph)	40	35	35
Traffic Volumes (AWDT)	17,000	16,000	7,000
LTS (Level of Traffic Stress)	4	3	2

### Proposed Facility

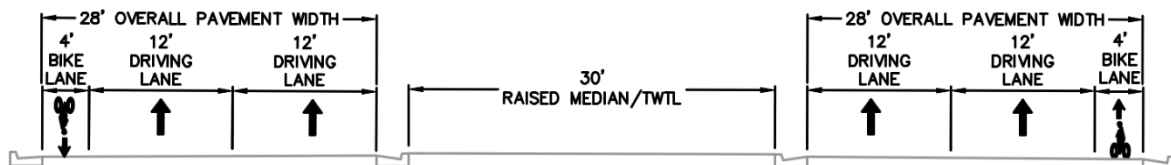
Facility Type	Separated Bike Lanes
Timeframe	Long Term
Cost Estimate	\$2.6M - \$10.7M
Strategies	Restriping – Road Diet, Median Modifications
Priority Level	High

## Notes and Considerations:

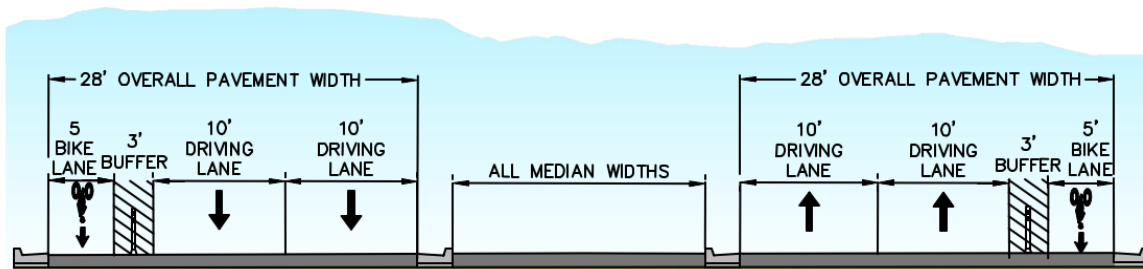
- **Functional Classification:** Minor Arterial
- **Project Benefits:** Network spine, major improvement to bicyclist level of comfort, high level of public support
- **Vulnerability Index Score:** Medium
- **Destinations:** Unser/Ladera Activity Center, Regional Sports Complex
- **Council Districts:** 1
- **Other:** Road Diet Candidate



## Section A



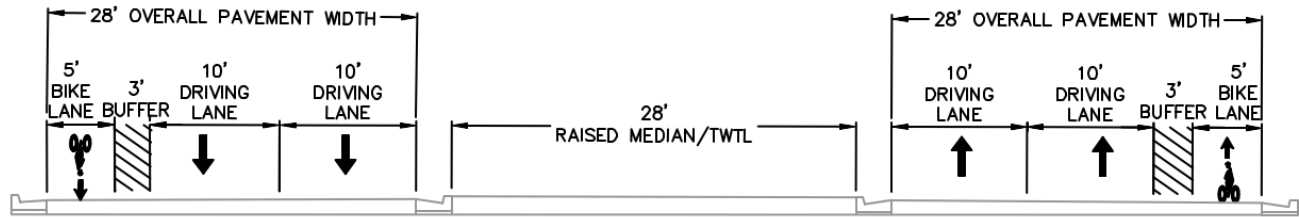
LADERA DR. – GAVIN RD. TO ARROYO VISTA BLVD.  
EXISTING TYPICAL SECTION A



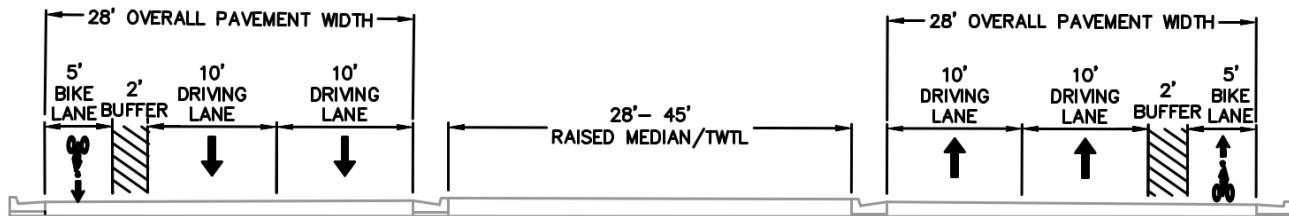
LADERA DR. – OURAY RD. TO ARROYO VISTA BLVD.  
PROPOSED TYPICAL SECTION A, B, C

## Ladera Drive from Ouray Rd. to Arroyo Vista Blvd.

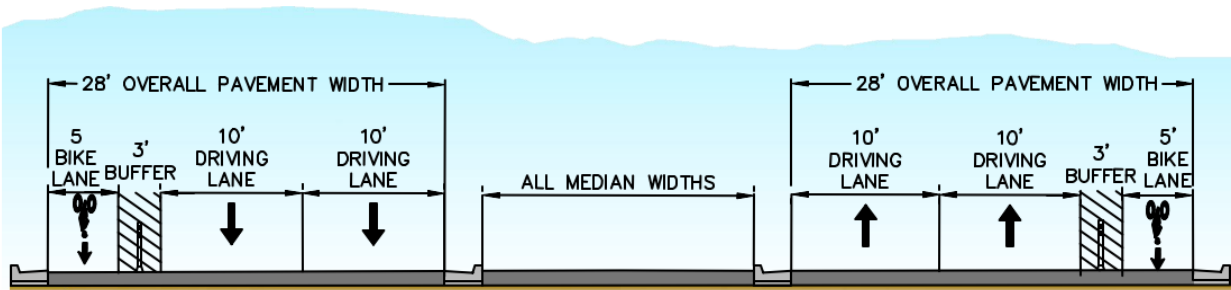
### Sections B & C



LADERA DR. — UNSER BLVD. TO GAVIN RD.  
EXISTING TYPICAL SECTION B



LADERA DR. — OURAY RD. TO 72ND ST.  
EXISTING TYPICAL SECTION C



LADERA DR. — OURAY RD. TO ARROYO VISTA BLVD.  
PROPOSED TYPICAL SECTION A, B, C

# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN

## APPENDIX H: ADDITIONAL CONSIDERATIONS FOR MULTI- USE TRAILS (FROM 2015 PLAN)





## Overview and Note on Contents

The material in this appendix is taken directly from the 2015 Bikeways and Trails Facilities Plan and is meant to preserve content that was not updated as part of the 2024 Plan.

## Interagency Coordination Processes

### Shared Use of Irrigation Ditches

Any trail proposal for an MRGCD-owned or managed facility has to be reviewed and approved by use for the adequate right of way, current management and maintenance of that facility, landownership, and the ability for another local entity to manage and maintain the trail through a license agreement. The size of the facility and available right-of-way are strong determinants in the feasibility of a multi-use trail that can be separated from the MRGCD's required maintenance access. Other than at road crossings, rails and fences are generally not installed along ditch banks as they prevent or impede our access and maintenance.

Equestrians use unimproved maintenance roads and trails on our facilities and generally keep their distance from bicycles and other fast-moving users. Our ditches and drains are used by and very important to equestrians in the valley and we try to provide or maintain access wherever feasible/desirable.

Wherever possible, multi-use trails should meet ADA standards for design and access. It's helpful to make them higher in elevation than the maintenance road for drainage so less material migrates onto the trail. The opinion about bollards is that they can cause some hazards on a trail but we are increasingly using them rather than the horse log step-overs to provide better access for those who have more mobility issues, bicycles, strollers, etc. while excluding vehicles and four and three-wheelers (ATVs).



*Albuquerque has significant opportunities to develop trails along drainage ditches.*

The trail corridors proposed for the Corrales Main Canal and Alameda Drain will need more study for feasibility. Some funding has been allocated for the Alameda Drain from Matthew Ave. north to Alameda Blvd. and reconnaissance and coordination efforts have commenced.

It would be good for the MRGCD, City, and County to develop maintenance and management standards and signage/information more specific to trails on MRGCD facilities as the concerns, management, opportunities and purposes are unique.

### Shared Use of Utility Corridors

PNM transmission rights-of-way or easements are identified as the location for several proposed bike routes or trails. As the easement holder, PNM has the legal right to use and maintain the easement including ensuring vehicular access to the lines, maintaining adequate clearances, and other safety measures. If the bike lanes and/or trails become guest uses at these locations, an encroachment agreement will be necessary. The City also needs to directly contact the underlying property owner. In addition, it will be the City of Albuquerque's responsibility to ensure that PNM's uses of the easement are not affected or interfered with in any way by the inclusion of the bike lane or trail. Four proposed bike lane and/or trail

locations are identified within PNM's 115kV transmission rights-of-way and easements. The four locations are:

- Along the PNM CE 115kV transmission line from Irving Blvd. NW heading north toward McMahon Blvd. NW
- Along the PNM BW 115kV transmission line north of Interstate 40 east of Atrisco Vista Blvd NW
- Along the PNM SE 115kV transmission line/ID 46kV transmission line corridor in Tijeras Arroyo
- Along the PNM RE/ER 115kV transmission line corridor on San Antonio Drive NE just west of Tramway Blvd NE

Based on PNM's experience constructing and maintaining facilities at these locations, the terrain is difficult and is not conducive for bike trails. Coordination with PNM will be necessary as trails are developed at any of these four locations.

PNM does not support the development of trails within PNM existing 345kV transmission line rights-of-way or easements. The higher voltage lines can potentially result in electrical nuisance shocks. Nuisance shocks may occur when a person touches an ungrounded metal object, in this case, such as bicycle handlebars. A nuisance shock does not harm the recipient but can be startling. PNM will not grant an encroachment easement in 345kV transmission corridors.

## **New Mexico Department of Transportation (NMDOT)**

Any trail, lane, and route proposal for a NMDOT roadway facility will require review and approval by NMDOT for the following, but not limited to, adequate right-of-way, accessibility, connectivity, maintenance of the facility and need for license agreement. As we had discussed, bringing some of the other agency coordination text referring to ADA compliance, design, feasibility, etc. to the introductory section would cover these items for all affected agencies.

## **Trail Design**

### **Background Information**

In 1981, the American Association of State Highway and Transportation Officials (AASHTO) first attempted to create a comprehensive set of guidelines for accommodating bicyclists in various riding environments. Although it was not intended to set forth strict standards, the AASHTO Guide for the Development of Bicycle Facilities (revised in 1991, 1999, and the current 2012 fourth edition) has been the predominant source of information in this area although no enforceable Federal standards exist.

While most states have deferred to AASHTO's guidelines as de-facto design standards since 1981, some state and local governments are leading the way in the production of their own standards and guidelines in order to address local issues and meet the current needs of pedestrians, bicyclists, equestrians, and other user groups. In 1992, the U.S. Department of Transportation and the Federal Highway Administration conducted a national bicycling and walking survey entitled Case Study No. 24, Current Planning Guidelines



*The Springwater Corridor in Portland, Oregon runs next to an active rail line.*

and Design Standards Being Used by State and Local Agencies for Bicycle and Pedestrian Facilities. That study was followed in 1999 by a similar, but broader effort entitled *Designing Sidewalks and Trails, Part 1: Review of Existing Guidelines and Practices*. By compiling and listing a number of examples of state and local guidelines, these documents identified models to which other communities could refer when developing their own bicycle and pedestrian plans, as guides to the state of the practice. (Part 2 of the 1999 FHWA study summarizes the earlier findings in a “best practices” guide, described more fully below.)

Until recently, bicycle-related protection measures (such as appropriate widths, turning radii, sight distances, and avoiding conflicts with vehicular traffic) have been the dominant trail design concerns. While these remain vital concerns, the presence of accepted standards such as the AASHTO guidelines have led to a shift in focus toward providing more “inclusive” and accessible outdoor recreational settings, especially in the urban environment. Rather than focusing solely on the cyclist and/or pedestrian, our collective awareness has been broadened to include all types of users, including children, parents with strollers, equestrians, people in wheelchairs, vision impairments, and those with other impairments or physical challenges. It is relatively easy to design for one or two user groups; however, it is extremely challenging to design multi-use trails that will be perfect for every user group.

## **ADA Guidelines**

The Americans with Disabilities Act of 1990 (ADA) prohibits discrimination and ensures equal opportunity for persons with disabilities in employment, State and local government services, public accommodations, commercial facilities, and transportation. It also mandates the establishment of TDD/telephone relay services. The current text of the ADA includes changes made by the ADA Amendments Act of 2008 (P.L. 110-325), which became effective on January 1, 2009 and is now accompanied by the 2010 ADA Standards for Accessible Design. Together they provide national accessibility regulations for buildings and related urban environments. However, when designing outdoor recreational facilities or multi-use trails (with the exception of facilities built on Federal Land), the application of strict ADA standards often proves impractical and currently lacks any Federal ruling or legal requirement. There is practical design and smart practices that can and should be followed when building multi-use trail and trailhead facilities. These will be followed until the Federal government adopts a ruling for requirements that shall be followed. The following is some history on how practical design and smart practice came to be.

In 1993, the nonprofit organization Project Play and Learning in Adaptable Environments, Inc., (PLAE), in partnership with the USDA Forest Service and a number of other agencies and organizations, took the initiative to develop guidelines and published *Universal Access to Outdoor Recreation: A Design Guide*. By acknowledging a desire for various levels of recreational challenge and related facility development in settings ranging from highly-developed urban to primitive, natural landscapes, this book pioneered the way for designers to address the needs of people of all abilities in outdoor recreation and provides a universal approach to outdoor design in the spirit of ADA regulations. However, as comprehensive as it is, the PLAE design guide does not yet enjoy the support of law, such as ADAAG.

To address this, the U.S. Architectural and Transportation Barriers Compliance Board (a.k.a. the “Access Board” – the agency which administers and develops accessibility design guidelines) formed the Recreation Access Advisory Committee (RAAC) to study the issues and develop federal standards for outdoor recreational facilities. Based in part on the research and recommendations of the PLAE partnership in *Universal Access to Outdoor Recreation*, the RAAC published draft *Recommendations for Accessibility Guidelines: Recreational Facilities and Outdoor Developed Areas* in 1994 but could not reach consensus on many issues. Public comment also demonstrated a lack of consensus, especially regarding trails accessibility. In 1997 the Access Board created the Outdoor Developed Areas Regulatory Negotiation Committee (RNC), with representation by people with disabilities, state, federal and local land management

agencies, trails groups, designers, and owners/operators of various “outdoor developed areas.” After careful examination of the previous work done by RAAC, and the solicitation of input from the public, a final report was submitted by the RNC to the Access Board in September of 2013 (available at <http://www.access-board.gov/guidelines-and-standards/recreation-facilities/outdoor-developed-areas/final-guidelines-for-outdoor-developed-areas>). The report gives recommendations on accessibility issues related to outdoor recreation access routes, beach access, picnic elements, and camping facilities.

The 2000 Census shows that 20% or approximately 54 million U.S. Citizens over the age of 15 have a disability. Also, 17 million Americans have serious hearing disabilities (2000 Census). There are three times more people with severe vision impairments than there are wheelchair users and information is a barrier for people with vision disabilities.

The newest and most comprehensive guidelines that can and should be used when designing multi-use trails is called Public Rights of Way Accessibility Guidelines (PROWAG). These guidelines were originally intended to supplement the ADAAG to provide standards specific to public rights-of-way. Applicable to new construction and alterations of existing facilities within the public right-of-way excluding shared-use paths or multi-use trails. As an enforceable standard, PROWAG provides the best guidelines for multi-use trail design and should be followed until there is specific guidelines enforceable for multi-use trails.

When designing multi-use trails for ADA, the two main barriers of people with disabilities should be remembered. Movement and information are two major barriers for people with disabilities. People with mobility disabilities may have limited agility, speed, endurance and may benefit from designers implementing firm level surfaces, curb ramps where needed, and limited cross slopes. People with vision impairments from complete blindness to partial vision tend to benefit from sounds, textures, and contrasts such as audible/vibrotactile crossing information, tactile indication of boundary between pedestrian and vehicular roadways, clearly defined pathways, and high color contrasts. People with hearing disabilities rely on vision and benefit from good sight lines for assessing street crossing conditions, information in the visual, and information in a visual or vibrotactile format. Persons with cognitive disabilities have different processing and decision-making skills and benefit from straightforward, and direct environments, uncomplicated street crossings, and easy to understand symbols. Therefore, the design of multi-use trails should try and accommodate a broad spectrum of users and enable users to travel independently as much as possible.

## **FHWA Best Practices Guidelines**

In 2001 the FHWA issued the latest in its series of technical guides intended to help designers at the state level more easily integrate bicycle and pedestrian projects into mainstream transportation projects. Designing Sidewalks and Trails for Access, Part 2: Best Practices Design Guide followed their earlier compendium of existing guidelines and practices (described above). According to the transmittal letter which accompanied the initial distribution of the Best Practices Design Guide, “its aim was to develop tools to help the FHWA, and State and local governments meet their responsibilities under Title II [of the Americans with Disabilities Act of 1990] and Section 504 [of the Rehabilitation Act of 1973], while reducing their vulnerability to complaints filed under the ADA. The guide reflects recognized “best practices” in effect at the time of publication, and also incorporates recommendations from the Access Board’s 1999 final report from the Regulatory Negotiation Committee on Accessibility Guidelines for Outdoor Developed Area (described above).

## **State and Local Efforts**

The City of Albuquerque’s efforts to address trail implementation date back to 1973, when an advisory committee began research for The Bikeway Study, which was published the following year. That document

marked Albuquerque's first bicycle network plan, which evolved into the Long Range Bikeway System maps currently published by the Mid-Region Council of Governments (MRCOG). In the early '80s, the Albuquerque/Bernalillo County Comprehensive Plan reaffirmed the City's dedication to implementing a multi-purpose trails network. Other local documents created in the mid-1980s to the early '90s began to address trail design issues specific to Albuquerque. The 1986 Facility Plan for Arroyos, for example, promotes the use of the city's numerous drainage features for urban recreational purposes. Several Arroyo Corridor Plans further carry out the multi-use trail goals stated in the Facility Plan. The Bear Canyon Arroyo Corridor Plan, San Antonio Arroyo Corridor Plan, Amole Arroyo Corridor Plan, and Pajarito Arroyo Corridor Plan have been adopted by the City and contain varying levels of design guidelines for implementing specific types of trails. Several other corridors, including the City's two largest arroyos, the Calabacillas and Tijeras, have been the subjects of similar studies, which have not yet been adopted.

In 1989, the City Council adopted Bill No. 0-133 establishing a Greater Albuquerque Recreational Trails Committee (GARTC), which serves as the off-road counterpart to the Greater Albuquerque Bicycling Advisory Committee (GABAC) now GAATC, providing a voice for the trail-user and cycling communities in City government. In conjunction with the City's Planning Department, GARTC began research for a "Master Recreational Trails Plan" shortly after its formation. This process resulted in the 1993 Trails & Bikeways Facility Plan, which represents the city's most comprehensive trails planning document to date (plan maps updated in 1996).

In 1996, the New Mexico State Highway and Transportation Department (NMSHTD – now NMDOT) produced the first state-wide New Mexico Bicycle-Pedestrian-Equestrian (BPE) Transportation Plan. Developed partially in fulfillment of federal mandates under the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA), the plan provides general guidance in the development of bikeways, walkways, and equestrian trails. Three appendices include some design standards, applicable state laws, and trail-related signing and striping excerpts from the Manual on Uniform Traffic Control Devices (MUTCD). The recommendations in the plan are "loosely categorized" according to an emerging national convention called the "4-E" approach, which emphasizes the four functional areas of engineering, education, enforcement, and encouragement in promoting and implementing successful BPE programs. The state plan was revised in 1999, 2001, and 2003. Currently, the NMDOT has begun a comprehensive and collaborative process to develop a 2040 Statewide Long-Range Multimodal Transportation Plan (SLRP). The plan will provide a vision for how New Mexico's transportation system can support the well-being of our residents and visitors now and in the future.

### ***Current Directions***

The various local documents concerning Albuquerque trails have provided the first stages in trail design guidance based on the needs of individual user groups. However, they fall short in providing adequate guidelines for implementing a multi-purpose network that will accommodate all potential users. Many were oriented primarily toward bicycles, while those that addressed multiple users tended to focus on separate single-use facilities.

In the greater Albuquerque area, as is true throughout the nation, finding solutions to the wants and needs of multiple user groups is increasingly challenging. It is simply not feasible in most cases to provide separate facilities for each of the various use types. Acquiring sufficient right-of-way to provide adequate widths and necessary separations for multiple, parallel trails is cost-prohibitive, at best, and is often not even possible within developed portions of the city. The City of Albuquerque has adopted the strategy of accommodating multiple user groups with the design and construction of multi-use trails.



### ***Designing for Multiple-Use***

The concept of combining user groups on single trail facilities is not without its difficulties. Multi-purpose trail design is faced with the challenge of allowing for the freedom of choice essential to a satisfactory outdoor recreation experience, on one hand, while at the same time minimizing conflicts between different trail users. In order for multi-use trails to function effectively, the various user groups need to be cognizant and respectful of the needs of other users. Public education is an important element in reducing conflicts often associated with multi-use trails.

Several studies have been undertaken at various levels to try to understand the underlying causes of trail conflicts. In 1994 the Federal Highway Administration and the National Recreational Trails Advisory Committee sought to summarize this information and “establish a baseline of the current state of knowledge and practice and to serve as a guide for trail managers and researchers.” Their resulting report, *Conflict on Multiple-Use Trails*, offers a useful summary of possible management strategies that adhere to the “minimum tool rule,” which advocates using the least intrusive measures possible. Some of their suggestions include:

- Build trails wide enough to accommodate expected levels of use
- Provide adequate trail mileage and a variety of trail opportunities
- Provide appropriate signage and/or educational material
- Design in adequate sight distances and provide pullout areas
- Paint a yellow center stripe and two white side stripes on all multi-purpose trails within the City of Albuquerque Right of Way.
- Have an effective maintenance program appropriate to trail type and use.

### **Trail Difficulty Rating System**

In most instances, individuals intentionally choose a specific environmental setting when exploring the outdoors. These choices are made with distinct expectations for recreational experiences, especially with regard to the level of accessibility of a given area or facility. Because of the close relationship between the expectation and the resultant outdoor experience, successful design and management strategies should include an understanding of this cause and effect. A key to this success lies in the provision of adequate information to enable trail users to make informed decisions about a given facility.

Trail users can more easily gauge the level of effort required for a given segment of trail through the implementation of a difficulty rating system. Although no national standard format has yet been established, five key attributes have emerged for assessing the navigability of a trail facility. Referred to as the Universal Trail Assessment Process (UTAP), this system quantifies each of the following elements:

- Grade/Running Slope/Inclination (average and maximum)
- Cross Slope (average and maximum)
- Trail Width (average and minimum)
- Surface Type/Condition (firmness)
- Obstacles (type and magnitude)

Both PLAE and RAAC recommend the additional measure of summarizing the above information into a rating hierarchy similar to ski run designations – Easy, Moderate, Difficult, and Most Difficult, with accompanying “Universal Design” symbols which graphically reinforce the text designation (discussed further under “Signage” later in this report). However, it should be emphasized that without the UTAP

attributes, the simple designation of “Easy” or “Moderate” becomes very subjective and may not provide adequate information to some trail users to assess their ability to negotiate a particular facility.

Of course, other factors also influence ease of use, including overall length of a given trail facility, as well as the relative distances between specific facilities, use areas, and access points. Awareness of those factors is key to determining a trail user’s ability to complete a trail segment, given their own abilities or the amount of time available. And while more difficult to quantify in terms of the above system, these factors can be conveyed via trail maps and/or mileage signs.

## Local Applicability

Trail design and construction have increased dramatically in Albuquerque since 1991 and the passage of the first federal Intermodal Surface Transportation Enhancement Act (ISTEA), which set aside unprecedented levels of funding for alternative transportation facilities, including trails. And, given the passage of its successor bills, TEA-21 and the current SAFETEA-LU (2005-2009), this trend is not likely to end soon. In short, trail planners are not waiting for a uniform federal standard for trail development.

However, in the absence of any comprehensive local standards, there is a great deal of variability in the configuration of those facilities. Until the Access Board issues its “final rule” and codifies it as law, an interim standard is needed to guide trail development in the greater Albuquerque area.

Since the underlying goal is to make Albuquerque’s trails accessible to as many people as possible, regardless of ability, the trail community and the larger transportation system as a whole would best be served by striving for the highest level of accessibility that can reasonably be attained within the realms of the underlying natural landscape and physical geography. Therefore, to the extent practicable, paved trails within the City’s jurisdiction should be in substantial compliance with the current PROWAG as stated in the sections above. At such time as new federal regulations for shared-use paths are ruled and enacted, the ADAAG and PROWAG standards should still take precedence. Any trails within Federally owned and managed lands are subject to the Access Board’s ruling for outdoor developed areas.

## General Trail Information

While not intending to stifle creativity or variation among projects, this document is intended to provide a basic set of design guidelines which sets forth minimum acceptable parameters for various types of trail facilities constructed within the greater Albuquerque area. The guidelines are organized into a number of categories, each of which may have up to three levels of information: **Design Standards**, which represent minimum required design criteria; **Design Considerations & Guidelines** provide background information and issues that may influence facility design; and **Design Guidance** offers suggested criteria or other information which may guide the design process.

The AASHTO Guide for the Development of Bicycle Facilities (2012 edition) has an extensive section of design guidelines for Shared Use Paths, covering the following categories:

- Separation between Shared Use Paths and Roadways
- Width and Clearance
- Design Speed
- Horizontal Alignment

- Grade
- Sight Distance
- Path-Roadway Intersections
- Signing and Marking
- Other issues, such as Lighting; Restriction of Motor Vehicles; Railroad Crossings; etc.

Rather than duplicating that information here, this document will instead focus on issues and criteria specific to Albuquerque's multi-use trail system. The remainder of the material from the AASHTO Guide is incorporated herein by reference. In the event of a conflict with this or future versions of the AASHTO Guide, the more stringent criteria will apply.

The Federal Highway Administration's Manual on Uniform Traffic Control Devices (MUTCD), Part 9: Traffic Control for Bicycles is the accepted reference for most matters relating to signage, signalization, and striping of bicycle trails. The MUTCD offers three levels of information: Standards, which should be followed; Guidance, which is recommended, but not required; and Options, which are permitted, and may or may not be followed, at the discretion of the local authority. The guidelines presented in the MUTCD should be followed in the design of Albuquerque's multi-use trails.

Multi-use trails, shared-use paths, or simply "trails," provide a desirable facility for cyclists, pedestrians, equestrians, and other trail users. They allow for travel and recreational use that is separated from traffic. Multi-use trails should generally provide new travel opportunities while accommodating all types of trail users.

The Albuquerque Development Process Manual defines a multi-use trail as:

*Paved trails, also called multi-use trails or shared-use paths, are facilities that are dedicated for pedestrians and cyclists and are designed for use by people of all abilities for transportation and recreational purposes. 2. Trails are physically separated from vehicular traffic and are either within the roadway right-of-way or within an easement.*

Sidepaths are physically separated from motor vehicle traffic by an open space or barrier and are either within the public street right-of-way or within an independent (private) right-of-way."

## Trail Types

Albuquerque's multi-use trails can be grouped into two broad categories: paved and unpaved multi-use trails. **Paved trails** are intended to accommodate all types of non-motorized users that include but not limited to bicycles (and other types of cycles), in-line skates and ski trainers, all types of skateboards, strollers, wheelchairs, equestrians, and many types of pedestrians preferring a hard, all-weather surface. **Unpaved trails** typically accommodate but are not limited to (unless posted and signed) equestrians, mountain bikers, hikers, and pedestrians preferring a soft walking surface (stabilized unpaved trails may also be suitable for wheelchair users depending on their ability). In any given corridor, these two basic trail types may be categorized in one of three ways:



*Shared-use paths (also referred to as "trails" and "multi-use paths") are often viewed as recreational facilities, but they are also important corridors for utilitarian trips.*

- **Single Track, Limited Use** – although this runs counter to the concept of “multiple-use,” there may be instances where only single use types are allowed or, more frequently, certain uses may be prohibited in order to minimize potential conflicts or impacts. This situation would most likely occur in specific management areas such as Wilderness areas or designated Open Space facilities, such as the Pino Trail at Elena Gallegos. Site specific signage will define the appropriate usage of trails in Open Space. The Open Space Division is responsible for defining appropriate uses based on topography, environmental conditions, and to avoid potential user conflicts.
- **Single Track, Multiple Use** – either of the trail types (paved or unpaved) within a corridor by itself, but open to any non-motorized users. This category comprises the vast majority of Albuquerque trails.
- **Multiple Track, Multiple Use** – in some cases, it may be possible and appropriate to provide parallel hard and soft-surfaced trails within the same corridor. Some separation between the two types is desirable.

## Trail Location

As noted in the AASHTO Guide, multi-use trails (“shared use paths”) should serve as an off-road transportation system which augments a community’s roadway network. “Shared-use paths should not be used to preclude on-road bicycle facilities, but rather to supplement a system of on-road bike lanes, wide outside lanes, paved shoulders, and bike routes” [AASHTO, 1999, p.33]. This is because even though off-street facilities may parallel a roadway, the presence of other, usually slower, users may make the trail a less efficient (and in fact more dangerous) route for commuters or other “serious” cyclists.

Multi-use trails may be located in separate, designated corridors (purchased, donated, negotiated, or dedicated during the development process), or shared rights-of-way, utilizing corridors along arroyos, power lines, and even roadways (assuming minimal driveway and other intersection crossings). All trails built within the City of Albuquerque right-of-way should be built to the guidelines proposed in this design manual whether it is a private developer building out a section of road or an entire subdivision. If a developer constructs a trail and it is intended to be maintained by a Homeowner’s Association, Neighborhood Association, or any means other than a public governmental agency such as the City of Albuquerque, the trail shall be built to the standards of this design manual in consultation with the Parks and Recreation Department’s Trails Planner or other City official. If a trail is to be built within a private right-of-way, it is not required to be built to City standards or specifications however, it is highly recommended. Trails built to City standards ensure longevity and high quality resulting in less maintenance costs to the entity maintaining the trail. Trails built within a private right-of-way shall never be maintained by the City of Albuquerque or other governmental or quasi-governmental entity unless there is a trail maintenance agreement or other legal agreement that is signed and accepted by the City or another agency.

The City of Albuquerque may require a “*trail maintenance agreement*” when a trail is built within the City right-of-way to ensure there is sufficient documentation of who will retain maintenance responsibility after the project is constructed. The City requires developers to help build out trail sections when they go through the development process when the trail is a proposed link on the Bikeways and Trails Facility Plan map. All trails within the public right-of-way are open to use by the public. Trails built within an independent or private right-of-way do not have to be open to the public but can be.

## Design Considerations & Guidelines

The maps that are associated with the Bikeways and Trails Facility Plan show locations of many proposed facilities as well as existing facilities. The updated map is based on the Mid-Region Council of Governments

(MRCOG) Long Range Bikeway System map, as well as many Sector and Facility Plans prepared by or for the City of Albuquerque. Specific locations should be coordinated with the City's Trails Planner when developments are going through the design, planning, and construction process.

## Trail Design Criteria

Trail design criteria are outlined below, however, design must follow the DPM.

### Trail Cross Section for Typical Paved Multi-use Trail

#### *Design Standards*

##### *Width (same as the DPM standards)*

- 10 feet is the minimum allowed for a two-way shared-use path (trails less than 10 feet wide need an exception by the City and may need a separate legal "trail maintenance agreement").
- 12 feet or 14 feet or greater is recommended for high-use areas and regional corridors, or in heavy-use situations with high concentrations of multiple users, such as joggers, bicyclists, skaters, equestrians, and pedestrians.

##### *Lateral Clearance*

- A 2-foot or greater compacted shoulder on both sides.
- 3' or more from walls, fences, posts, signs, and other structures.

##### *Overhead Clearance*

- Clearance to overhead obstructions should be a minimum of 10 feet.

##### *Design Speed*

- The maximum design speed for bike paths is 18-20 mph. Speed bumps or other surface irregularities should never be used to slow bicycles.

##### *Grade*

- The recommended running grade is 5% or less. Steeper grades can be tolerated for shorter distances. The cross slope shall be no greater than 2%. It is recommended cross slope is designed at 1.5%.

### Design Considerations & Guidelines

Trails should be constructed according to this design manual. Further guidance can be found in the books and publications listed in the beginning of the manual. Constructing trails may have limitations in regards to PROWAG or any ADA document issued in the future for. Prohibitive impacts include harm to significant cultural or natural resources, a significant change in the intended purpose of the trail, requirements of construction methods that are against federal, state or local regulations or presence of terrain characteristics that prevent compliance.

#### *Surfacing*

According to the ADA, an accessible surface must be "stable, firm, and slip-resistant" [28 CFR Part 36, Appendix A, Section 4.5.1; 1994, p. 513]. Trail or path surfaces which meet these criteria can accommodate



bicyclists, in-line skaters, individuals using wheelchairs, and other trail users who need or prefer the security of a firm surface. Any pavement design should be prepared or approved by a geotechnical engineer, based on site-specific soil conditions. Nonetheless, some general design parameters apply specifically to trail construction, as outlined below.

### **Concrete**

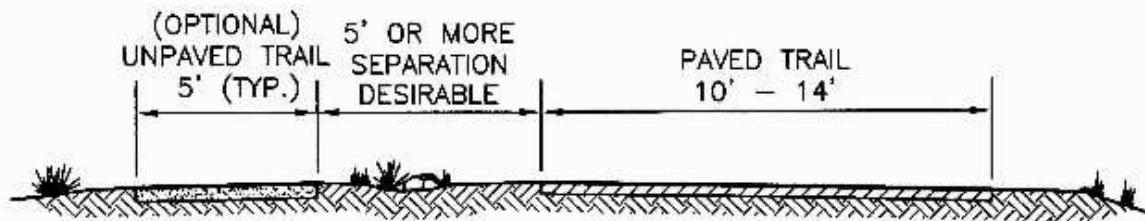
In general, concrete trail surfacing should follow The City's Standard Specifications for sidewalk construction. The major difference between a concrete trail and a sidewalk is that a sidewalk is typically not wider than 6 feet. The minimum trail width is 10 feet and 8 feet with a written exception or legal maintenance agreement with the City. Also, trails have separation between back of curb and sidewalks do not. Thickness typically should typically be four inches (4") minimum, but should be thickened to at least six inches where frequent vehicular traffic is expected (such as at curb access ramps and maintenance vehicle crossings). Addition of color may enhance the visual character of a concrete trail surface, but texturing should be kept to a minimum. Control joints should be saw cut, rather than tooled, in order to maintain a smoother, more even rolling surface.

### **Asphalt**

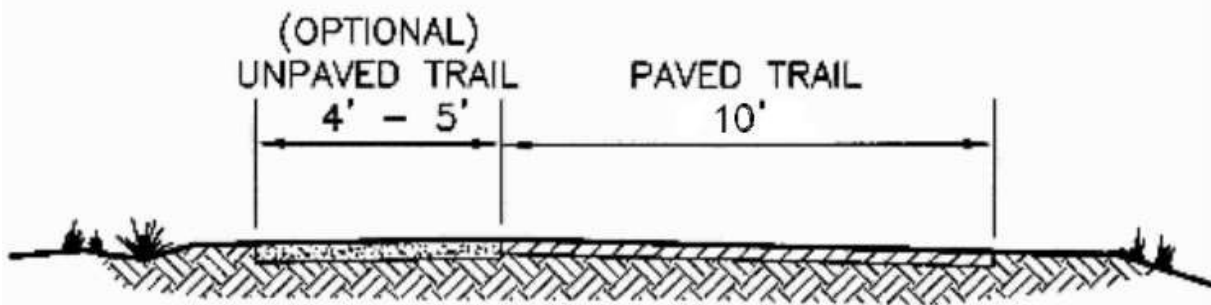
Asphalt is much less expensive to install than concrete and is used more often than concrete for trail applications. Asphalt is aggregate mixed with oil. It is actually meant to be driven over as the movement of a vehicle over the asphalt literally "kneads" the asphalt keeping it smooth. Therefore, it is recommended and shall be required to use a smaller aggregate for trail applications due to the lack of vehicles "kneading" the asphalt. Parks and Recreation requires "Type C" asphalt which has been typically used since 2010. In lieu of Type C, a super pave IV (SP IV) can also be used however "Type C" is recommended for paved trails. The aggregate is small which helps to keep the trail surface smooth for cyclists and pedestrians. Another concern with asphalt trail surfaces in New Mexico is oxidation (loss of asphalt binder) due to sun exposure, and cracking over time. Both of these problems can be minimized to a small extent through modification of the pavement mix to increase the amount of asphalt binder in relation to the aggregate, as compared to a standard roadway mix. Care should be taken, though, not to increase the binder content to the point that the surface becomes difficult to finish.

Surface thickness also affects the durability of asphalt. Since the design of asphalt surfacing is generally based upon vehicular loads, two inches is usually considered more than adequate to support bicycle and foot traffic. However, since bicycles are not heavy enough to provide the "kneading action" of automobile traffic (which helps hold asphalt roadways together), surface integrity relies solely on the tensile strength of the asphalt binder. Current thinking generally holds that increasing the thickness of the asphalt surface will in turn increase durability and help reduce cracking. Therefore, although the typical trail section in the City's Standard Specifications for Public Works Construction shows 2" of asphalt over 8" of compacted subgrade, the recommended design thickness for trail surfacing when maintenance vehicles will be utilizing the trail consists of 3" of asphalt over 12" of compacted subgrade. In areas with soft (sandy or high clay content) subgrade material, the addition of 4" of engineered base course is recommended. Final determination of subgrade and base course treatment should be made by a qualified civil or geotechnical engineer and it is recommended that 12" of subgrade preparation at 95% compaction rather than 8" of subgrade be used on all new and rehabilitated paved trails. Unless otherwise determined by a civil or geotechnical engineer, aggregate base course should have an "R- Value"  $\geq 76$  and subgrade should have an "R-Value"  $\geq 50$ .

**Figure 1: Typical Paved Multi-Use Trail Cross Section**



**Figure 2: Typical Paved Multi-Use Trail Cross Section (no separation)**



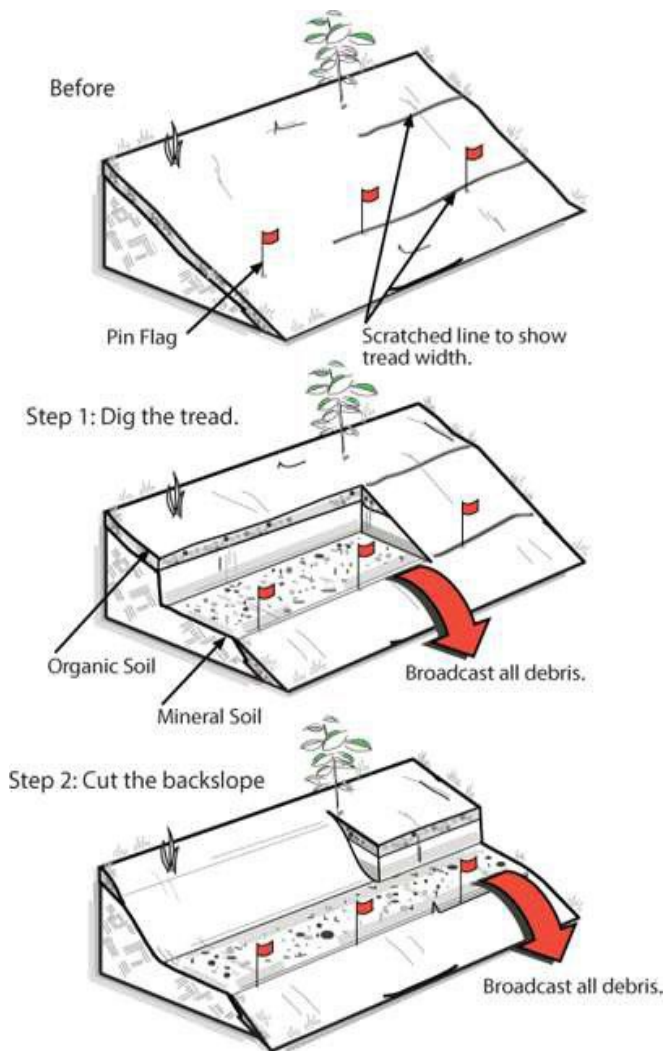
## Unpaved Trails

Unpaved (non-stabilized) trails within the urban/rural area are sometimes provided as an alternative to parallel paved facilities, primarily for use by equestrians or joggers. However, Major Public Open Space has over a hundred miles of unpaved natural surface multi-use trails throughout all quadrants of the City and in Bernalillo and Sandoval County. In many cases, the existing native soil is suitable for surfacing such trails, especially in Major Public Open Space (unless a stabilized crusher fine ADA type trail is desired). These could include 3/8" or smaller angular gravel, crusher fines, decomposed granite, or other suitable soils (e.g. sandy loams) which remain firm underfoot in both wet and dry conditions. A 3"- 4" layer of these imported materials should be adequate in most instances if subgrade soils provide adequate support (greater depth may be required over loose sand or silt). Unpaved trails should be separated from paved trails within the same corridor as far as possible, given right-of-way constraints.

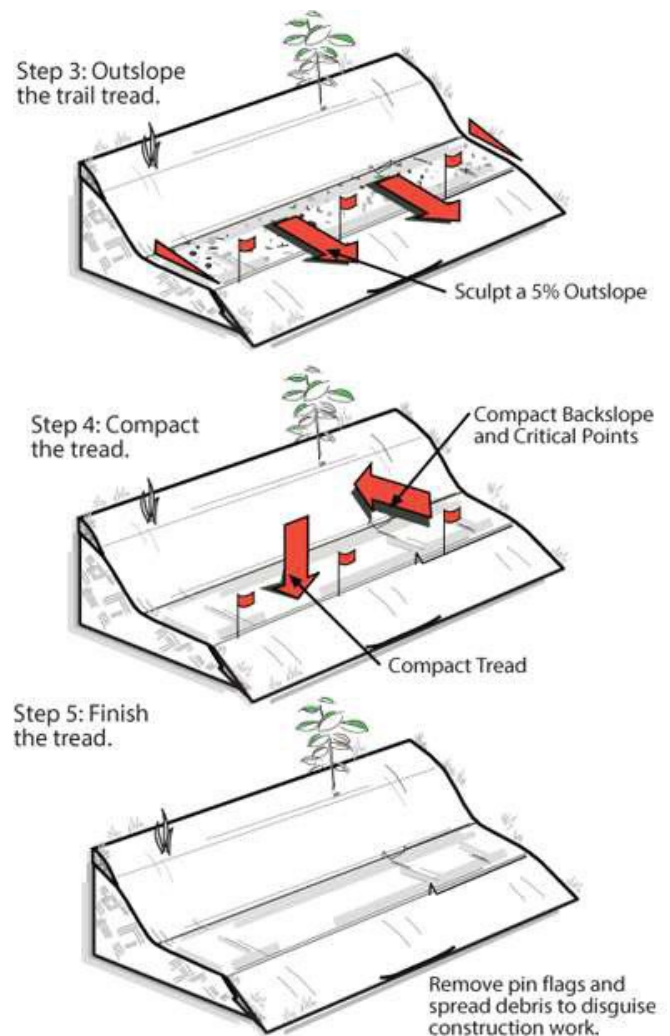
Unpaved trails are typically classified as "singletrack" trails. These are primarily found in Major Public Open Space areas. However, The City Open Space Division also maintains and manages a few paved trails as well. Actually, when looking at the trail system as a network City Major Public Open Space maintains a large majority of trails within the regional Albuquerque area and beyond. Most of these "MPOS" trails differ in design and construction from the paved trail network with exception of the MPOS paved trails but they are just as important and need to be addressed in this design manual as they are considered part of the overall trail network. Some basic MPOS trail designs are listed below for MPOS trails. For more detailed information on MPOS trail standards, trailhead design, signage, etc. please refer to the draft MPOS trail standards. These can be found by contacting the Open Space Division directly. Major Public Open Space trails' typical cross sections differ from the paved trail cross sections as seen in the figures above. Each MPOS property is different and trails are designed to accommodate specific environmental terrains and conditions. However, the natural surface trails designed and constructed by the Open Space Division typically follow the

International Mountain Bicycling Association publication entitled “Trail Solutions; IMBA’s Guide to Building Sweet Singletrack” 2004 edition. The figures below are typical examples used by the Open Space Division for design and construction of MPOS trails. Unless noted as either Major Public Open Space, MPOS, or Open Space in this design manual, all other material is referring to trails that are not MPOS with the exceptions of any paved and maintained by MPOS trail sections such as the northern section of the Paseo del Bosque Trail.

**Figure 3: Typical MPOS Singletrack Full Bench Trail**

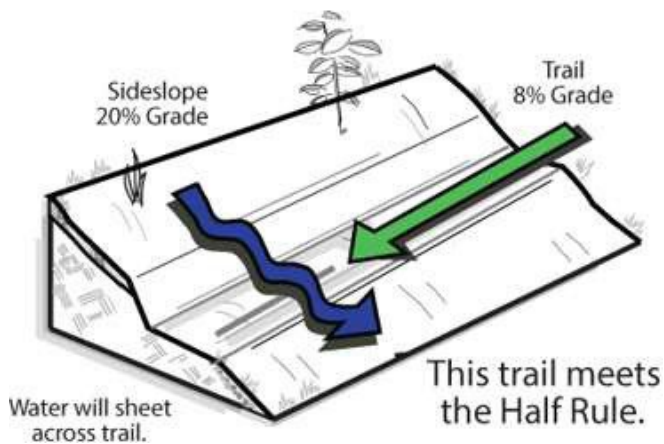
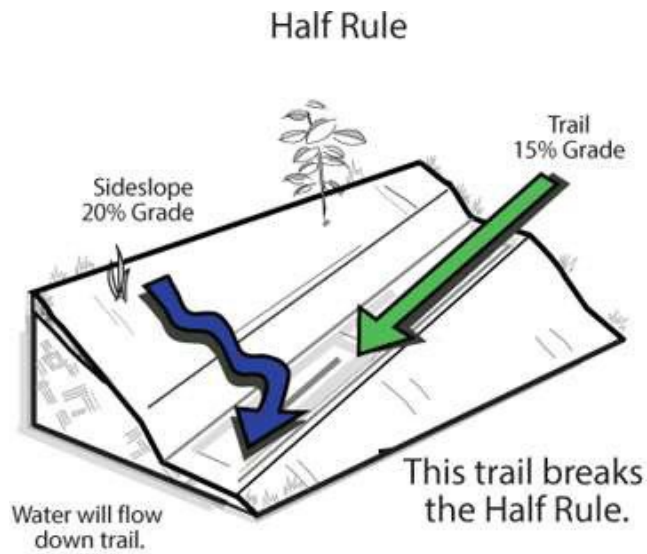


**Figure 4: Typical MPOS Singletrack Full Bench Trail (cont.)**

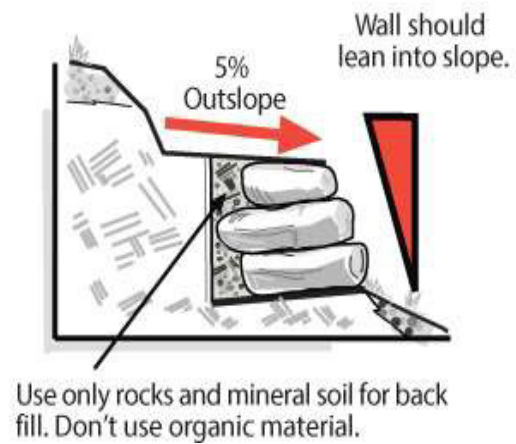


Source: Trail Solutions: IMBA

**Figure 5: Sustainable Trail Design using the Half Rule**



**Figure 6: Typical MPOS Design for Natural Retaining Walls**



Source: Trail Solutions: IMBA

### ***Design Considerations & Guidelines***

Asphalt is the most widely used surfacing for paved trails in the Albuquerque area, due primarily to its lower cost, and ease of installation and maintenance. It also offers a smooth surface, if installed correctly, and holds up relatively well over time, since it is not subject to the degree of frost heave or other environmental degradation often encountered in harsher climates.

Concrete is also commonly used for trail surfacing, although less so in Albuquerque than other locations. The primary benefit of concrete is its longevity and smoothness, resulting in reduced maintenance requirements and associated long-term costs. However, its initial installation cost often outweighs the long-term benefit of a concrete surface; especially here in Albuquerque where geographically it is vastly sprawled out and hundreds of miles of trail are needed to adequately connect the City together. Other perceived problems with concrete include the rigidity of the surface (runners usually prefer the flexibility of asphalt) and the somewhat large spacing of the required construction and crack-control joints (esp. for skateboards). These complaints can often be overcome by providing an adjacent soft-surfaced trail for runners, and using saw-cut control joints, rather than tooled joints, in concrete that create a tighter gap.

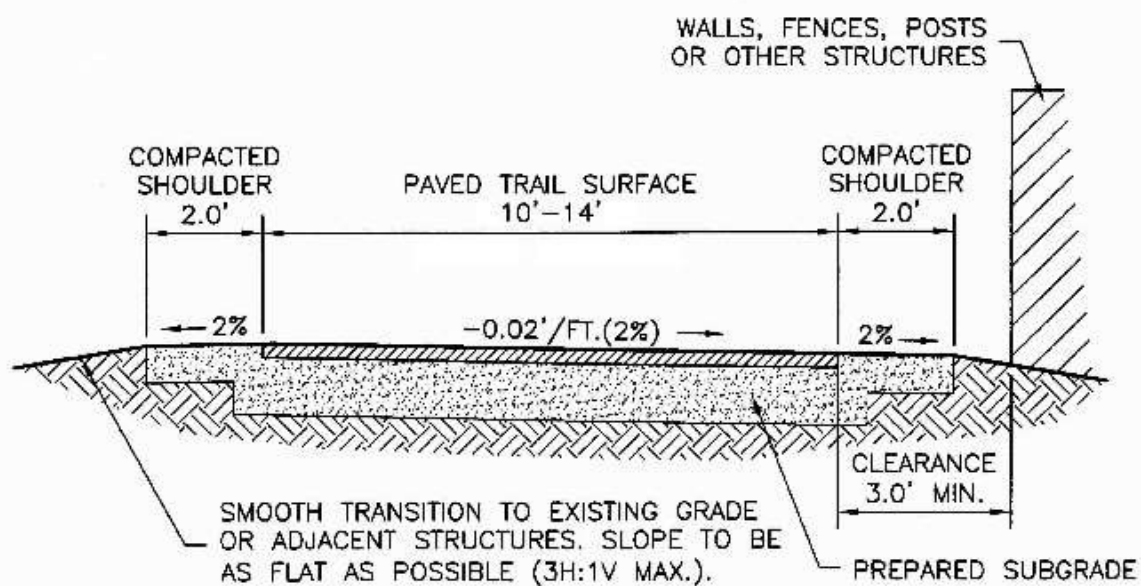
Environmentally-friendly variations on traditional pavement are also becoming more readily accepted and available. One such variation involves the use of recycled materials (such as shredded tires, plastic, or even crushed glass) in place of a portion of the normal stone aggregate in asphalt or concrete. Another removes the “fines” (smallest components) from the mix aggregate to create a porous pavement, which enables water to pass directly through the pavement and infiltrate into the ground below, thus minimizing runoff. Other alternatives which are gaining acceptance as naturalistic, yet stable trail surfaces involve the use of organic or synthetic binders to form pavements using native soils or other decorative materials; and even the use of brick or concrete pavers. While the use of alternative surfacing may be appropriate in certain circumstances, some of these materials may have limited application for urban trails, due to potential deterioration and/or unevenness of the surface. In any case, sound engineering judgment should be used in determining suitability of materials for trail use on any given project.

### **Trail Dimensions**

Trails should be of sufficient width to accommodate expected numbers of users without excessive interference. Side slopes and clearances from adjacent obstacles should be designed to minimize danger to cyclists who may inadvertently stray from the paved surfacing. Shoulders should provide a stable recovery surface in those instances. Railings (addressed later) may also be used to keep trail users from leaving the paved path, and may be placed within the 2'-3' clear (recovery) zone illustrated below. Refer to the AASHTO Guide for additional information not addressed here.



**Figure 7: Paved Trail Dimensions and Clearances**



Shared-use paths should be constructed according to this design manual and to the AASHTO Guide for the Development of Bicycle Facilities when and where feasible. Shared-use paths will be designed according to American with Disabilities Act (ADA) standards when a Federal ruling is adopted by the Access Board. In the meantime, trails (paths) will be constructed using the best ADA practices as adopted through the “Public Rights of Way Accessibility Guidelines” (PROWAG) when and where possible. Constructing trails may have limitations that make meeting ADA standards difficult and sometimes prohibitive. Prohibitive impacts include harm to significant cultural or natural resources, a significant change in the intended purpose of the trail, requirements of construction methods that are against federal, state or local regulations or presence of terrain characteristics that prevent compliance. Parks and Recreation is currently (started in 2013) auditing all paved trails for ADA compliance. Once the audit is completed, the report will show how many miles of trail and which trails can be utilized by people with disabilities.

### **Design Considerations & Guidelines**

Shared-use paths serve cyclists and pedestrians and provide additional width over a standard sidewalk. Facilities may be constructed adjacent to roads (side paths), through parks, or along linear corridors such as active or abandoned railroad lines or waterways. Regardless of the type, paths constructed next to the road should have some type of vertical (e.g., curb or barrier) or horizontal (e.g., landscaped strip) buffer separating the path area from adjacent vehicle travel lanes. However, sometimes right of way restrictions hinder the possibility for a vertical or horizontal barrier. It will be determined the engineers, designers, and planners if the benefits of having a trail outweigh the risks when the ROW is constrained.

Elements that enhance shared-use path design include:

- Providing frequent access points from the local road network. If access points are spaced too far apart, users will have to travel out of direction to enter or exit the path, which will discourage use.
- Placing directional and way finding signage to direct users to and from the path.
- Building to a standard high enough to allow heavy maintenance equipment to use the path without causing it to deteriorate.

- Limiting the number of at-grade crossings with streets or driveways.
- Terminating the path where it is easily accessible to and from the street system, preferably at a controlled intersection or at the beginning of a dead-end street. If poorly designed, the point where the path joins the street system can put pedestrians and cyclists in a position where motor vehicle drivers do not expect them.
- Identifying and addressing potential safety and security issues upfront.
- Whenever possible, and especially where heavy use can be expected, separate bicycle and pedestrian ways should be provided to reduce conflicts.
- Providing accessible parking space(s) at trailheads and access points.
- Providing, where possible, a soft surface shoulder adjacent to paved surfaces for use by joggers and equestrians.

Trails should be of sufficient width to accommodate expected numbers of users without excessive interference. Side slopes and clearances from adjacent obstacles should be designed to minimize danger to cyclists who may inadvertently stray from the paved surfacing. Shoulders known as the “recovery zone” should provide a 2-3’ stable recovery surface in those instances. Compacted base course, subgrade, or crusher fines are recommended and gravel should not be used unless the aggregate is finer than 3/8”. Railings (addressed later) may also be used to keep trail users from leaving the paved path, and may be placed within the 2-3’ clear zone illustrated below. Refer to the AASHTO Guide for additional information not addressed here.

### ***Trail Alignment***

Although multi-use trails are, by definition, intended for many modes of use, the design of those trails is effectively determined by only a few user groups – those with the most stringent requirements. In the case of paved trails, this presents something of a conundrum, in that the design must accommodate two sometimes-conflicting extremes. Bicycles, on the one hand, are a very efficient means of transportation, capable of fairly high speeds and long distances. Wheelchairs, on the other, are relatively inefficient and slow. While both have wheels, and therefore share some basic requirements in terms of surfacing, most other design requirements for the two are quite different. In order to accommodate wheelchairs which typically have shorter travel distances and may need frequent rest stops on as many multi-use paths as possible, shared-use paths will need to meet the requirements of the Americans with Disabilities Act (ADA) once a proposed ruling by the Access Board is adopted by the Department of Justice as an “enforceable standard”, which currently does not exist for shared-use paths.

In contrast, AASHTO guidelines for bicycle design focus on higher travel speeds and efficiency of movement. Nonetheless, the two are not mutually exclusive. Trail designers must find the common ground between the two seemingly contradictory sets of criteria, and work within those parameters. In the simplest of terms, while the overall design of a trail facility should consider both modes, bicycles tend to dictate horizontal alignment criteria, while wheelchair requirements drive vertical alignment.

The information that follows is a summary of trail design criteria that should satisfy both ADA and AASHTO for use in the design of Albuquerque’s urban multi-use trails.

## Design Standards

**Table 1: Maximum Recommended Running Grade Lengths**

Max. Running Grade	For Distances Up To:
5% or less	Unlimited
8.33%	200 ft. with resting intervals
10%	30 ft. with resting intervals
12.5%	10 ft. with resting intervals

*Defined under ADA accessibility guidelines for outdoor areas*

**Table 2: Minimum Recommended Curve Radii for Paved Trails**

Grade	Design Speed	Min. Centerline Radius*
less than 3%	20 mph (30 km/hr)	95 ft. (29 m)
3% - 5%	25 mph (40 km/hr)	160 ft. (49 m)
greater than 5%	30 mph (50 km/hr)	265 ft. (81 m)

*Assumes 2% superelevation (cross slope in direction of curve)*

**Table 3: Recommended Vertical Curve Radii for Paved Trails**

Grade Change (Algebraic Difference)	Minimum Length for Crest Curve	Minimum Length for Sag Curve
less than 2%	None Required	None Required
2% - 4%	10 ft. (3 m)	60 ft. (18 m)
>4% - 6%	60 ft. (18 m)	160 ft. (49 m)
>6% - 8%	100 ft. (30 m)	300 ft. (91 m)
greater than 8%	160 ft. (49 m)	500 ft. (152 m)

## Design Considerations & Guidelines

### Grade

Trails in the urban area should be designed to provide running grades of 5% (20H:1V) or less wherever possible. If necessary, due to existing terrain or right-of-way constraints, grades up to 12.5% (8H:1V) are permissible, provided that a rest area be provided every 10 feet (77 cm) of vertical rise. See the table above for running grades and recommended resting intervals. Such rest areas may be integral to the trail (i.e. a landing with a maximum grade of 2.03% at least 5 feet in all directions of the landing pad), or, with approval of the City's project manager, may be offset alongside the trail, to provide a more even surface for bicycles

and other faster-moving uses. The table above lists recommended maximum distances for various trail grades under the current most stringent ADA guidelines for outdoor recreation areas. It should be noted that the natural environment terrain and grade may prohibit ADA compliance. This is allowed as long as the entire system or trail network has a certain amount of ADA-accessible trails located throughout the City. In addition, the standards may be waived where compliance would cause “substantial harm to cultural, historic, religious or significant natural features or characteristics.”

### *Horizontal Curves*

Many factors, including design speed, tire friction, lean angles, sight distances, and braking capabilities, are involved in determining minimum acceptable dimensions for horizontal alignments of bicycle facilities. These are covered in detail in the AASHTO Guide [pp. 37-46]. By default, facilities that are designed to facilitate the turning movements of two-way bicycle traffic would easily accommodate the spatial requirements of wheelchairs and other slower modes of travel. However, the same is not true for vertical alignment. It is, in fact, difficult to separate horizontal and vertical alignment criteria, so the designer should carefully weigh the impact that any changes to one might have on the other. As can be seen in the tables in the Design Standards below, the grade selected for a vertical alignment affects design speed, which in turn affects the minimum turning radius.

Curves sharper than those in the tables above may be necessary in circumstances of limited right-of-way or other physical constraints. If so, such curves should be identified by solid centerline striping and warning signs per the MUTCD.

### *Vertical Curves*

Vertical curves are used to make a smooth transition at changes in trail grade. This issue comes most sharply into focus in the design of ramps that meet the letter of ADA requirements, but also must serve bicycles. The typical alternating 30-foot, 12:1 (8.33%) ramp and 5- to 10-foot level landing configuration (often seen on bridge approaches and other areas of significant grade change) makes for abrupt transitions and runs contradictory to the 30 mph design speed recommended in the AASHTO Guide for such grades. Adding at least a short vertical curve at each change in grade will provide a much smoother travel surface, and lessen the potential for accidents by minimizing the chance of bicycles (and even some other modes of wheeled use) becoming airborne.

The most recent AASHTO Guide provides tables listing minimum lengths of Crest Vertical Curves (e.g. over the top of a hill) but no longer provides that information for sag curves (e.g. at the bottom of a valley), stating only that the minimum length of a vertical curve should be one meter (3 ft.). The previous (1991) AASHTO publication did not differentiate between the two types, offering a single graph [p. 29] that presented minimum lengths for any vertical curve based upon grade differential and design speed. The current differentiation is due to the fact that crest and sag curves are governed by different criteria. While crest curves can occur either at the top of a hill or in the middle of a slope, in both cases approach speeds are generally slower than exit speeds. Nonetheless, stopping sight distance (the distance that the trail surface is visible ahead) is usually the primary concern, since the slope is breaking away from the user. Sag curves represent the opposite conditions, and usually see the highest speeds on the approach to the grade change. Visibility is rarely an issue; instead, user comfort and ease of negotiation (due to resultant “G” forces) are the main criteria. So while the AASHTO guide has relaxed its recommendations for vertical sag curves, the resultant abrupt change in some instances might make for uncomfortable riding conditions for cyclists. In lieu of the 3’ minimum requirement, the table above suggests vertical curves which will make for a more pleasant trail experience.

In general, vertical curve grade transitions should be designed to provide as gentle a transition as possible, given the physical constraints of a site. The table above provides suggested lengths of vertical curves for various conditions, based on 2% increments in grade change. These numbers are generalized and should provide acceptable results in most cases; however, if more detailed information is required; please refer to the current AASHTO Guide.

As with horizontal curves described above, there will undoubtedly be instances when such lengths cannot be achieved in designing vertical curves. In the case of the accessible ramp design described above, provision of even a short vertical curve at each grade transition will permit easier negotiation by bicycles.

**Figure 8: Crest Curve**



**Figure 9: Sag Curve**



## Trails along Roadways

### Design Summary

Where a shared-use path must be adjacent to a roadway, a five foot minimum buffer should separate the path from the edge of the roadway, or a physical barrier of sufficient height should be installed.

Shared use paths may be considered along roadways under the following conditions:

- The path will generally be separated from all motor vehicle traffic.
- Bicycle and pedestrian use is anticipated to be high.
- To provide continuity with an existing path through a roadway corridor.
- The path can be terminated at each end onto streets or trails with good bicycle and pedestrian facilities.
- There is adequate access to local cross-streets and other facilities along the route.
- Any needed grade separation structures do not add substantial out-of-direction travel.

### Discussion

Concerns about shared use paths directly adjacent to roadways (e.g., with minimal or no separation) are:

- Half of bicycle traffic may ride against the flow of vehicle traffic, contrary to the rules of the road.



- When the path ends, cyclists riding against traffic tend to continue to travel on the wrong side of the street, as do cyclists who are accessing the path. Wrong-way bicycle travel is a major cause of crashes.
- At intersections, motorists crossing the path often do not notice bicyclists approaching from certain directions, especially where sight distances are poor.
- Bicyclists are required to stop or yield at cross-streets and driveways, unless otherwise posted.
- Stopped vehicles on a cross-street or driveway may block the path.
- Because of the closeness of vehicle traffic to opposing bicycle traffic, barriers are often necessary to separate motorists from cyclists. These barriers serve as obstructions, complicate facility maintenance and waste available right-of-way.
- Paths directly adjacent to high-volume roadways diminish users' experience by placing them in an uncomfortable environment.

As bicyclists gain experience and realize some of the advantages of riding on the roadway, some riders stop using paths adjacent to roadways. Bicyclists may also tend to prefer the roadway as pedestrian traffic on the shared use path increases due to its location next to an urban roadway. When designing a bikeway network, the presence of a nearby or parallel path should not be used as a reason to not provide adequate shoulder or bike lane width on the roadway, as the on-street bicycle facility will generally be superior to the "sidepath" for experienced cyclists and those who are cycling for transportation purposes. Bike lanes should be provided as an alternate (more transportation-oriented) facility whenever possible.

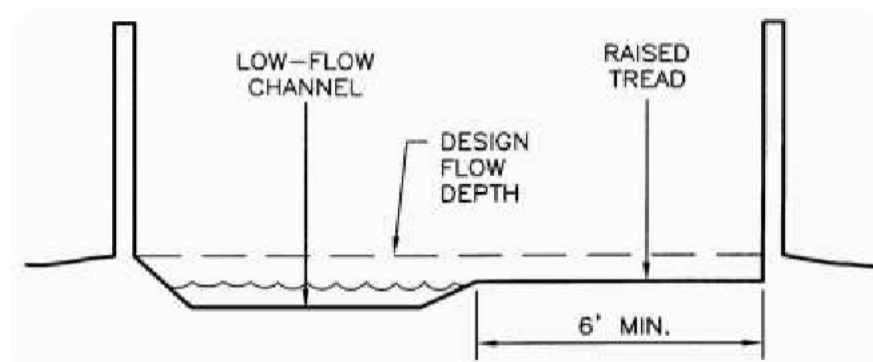
## Guidance

Please see the DPM and the discussion on "Sidepaths" for further guidance.

## Drainage

Since many trails follow drainage features (e.g. arroyos or ditches), they often must address not only drainage issues related to the trails themselves, but also accommodate runoff originating elsewhere. In fact, "neighborhood access" to a trail is often provided via wide rundowns which carry storm water from adjacent streets into shared arroyo/trail corridors. This is not a desirable configuration. Both the water itself, and the silt and debris which invariably accompany it, make for potentially hazardous trail conditions. Instead, parallel facilities should be provided which keep the trail access separate from the drainage way, or the trail access tread can be elevated six to eight inches above a low-flow channel within the rundown. Likewise, when trails cross drainage rundowns along the edge of a channel, the drainage flow should be routed under the trail, rather than across it.

**Figure 10: Neighborhood Trail Access via Shared Drainage Rundown**



### ***Design Considerations & Guidelines***

In general, drainage design for trails does not differ greatly from drainage design for roadways. Nonetheless, a few key principles should be highlighted here:

- Trail surfaces should have a 1% to 2% cross slope, and uniform surface planarity (no depressions or “bird baths”) in order to prevent water ponding on the trail;
- Interception ditches should be provided on the uphill side of trails which traverse slopes or hillsides, to prevent runoff from washing sediment onto the trail;
- Drainage grates or other structures should be sized and/or located so as not to interfere with trail traffic (narrow bicycle tires in particular).
- Culverts should be sized adequately to pass expected flows and allow for easy maintenance, including removal of debris. Minimum culvert size should be 12” diameter; 18” diameter is preferred for maintenance purposes.

### ***Shared Use of Drainage Facilities***

In recent years, the shared use of drainage channels for underpasses beneath major roadways has become more commonplace in the Albuquerque area. Trails are most often accommodated through such crossing by creating a notch in the side of the channel, with ramps leading in and out of the crossing.

Less frequently, suspended platforms have been mounted on the side of the channel where adequate flow capacity exists. The notched configuration, while significantly more expensive, is generally preferred by drainage authorities because it does not impede the flow of water in the channel, and, in fact, increases the channel cross section (and carrying capacity) at the bridge crossing. The figures below show possible configurations of such a crossing, based upon the depth and capacity of the channel at the crossing.

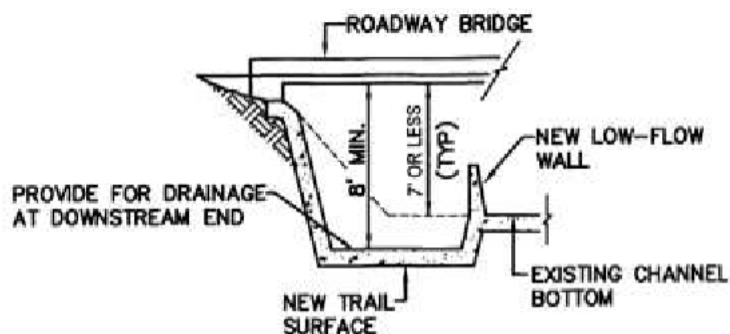


*Albuquerque has significant opportunities to develop trails along drainage ditches.*

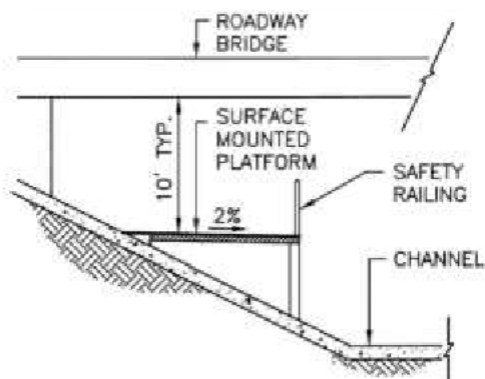
***Figure 11: Trail Underpass Notched Into Side of Channel***



***Figure 12: Depressed Underpass for Low Bridge Clearance Condition***



**Figure 13: Trail Underpass Attached to Channel Surface**



One of the primary concerns about placing trail crossings within major drainage channels lies in the fact that users are essentially directed into a potentially dangerous situation, where storm runoff may inundate the trail. Although the probability of such an occurrence would be quite low at any given time, it is nonetheless a valid concern. The potential hazard of such a crossing can be greatly decreased through the following actions:

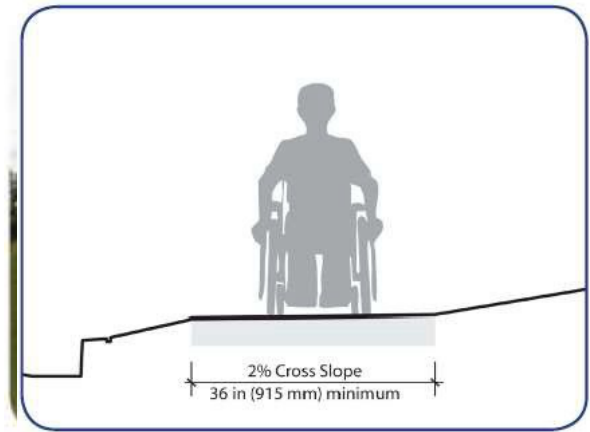
- Provide hand railings at the edge of the trail surface, in accordance with the Access Control section below.
- Post signs at either end of the crossing warning users not to enter the underpass if water is present or flowing across the trail surface.
- Provide alternate, at-grade crossing opportunities for times when the trail crossing may be flooded.
- Design notch configurations to keep the trail surface above the nominal “10-year design flow” depth, and such that inundation of the trail would be minimal for a “100-year” flood event.

If trail users heed the second guideline above, the last one would not be much of an issue. However, the fact remains that common sense does not always prevail, or that a trail user might unintentionally end up in such a situation (e.g. brake failure or other unforeseen mishap). While no national standard exists for acceptable flow depth across a trail, depths of greater than one-foot should be viewed as the maximum allowable condition. Any deeper, and stormwater flows begin to obscure the railing at the trail edge, limiting or eliminating the benefit it should provide.

## Trail Accessibility

### Design Standards

- 3 feet minimum clear width, where less than 5 feet, passing space should be provided at least every 100 feet.
- Cross slope should not exceed 2 percent where and when possible.
- Curb ramps shall be provided at roadway crossings and curbs. Tactile warning strips and auditory crossing signals are recommended along with any other mandated ADA street crossing criteria.



ADA clearance requirement.

Running slopes typically should not exceed 5%. However, certain conditions may require the use of steeper slopes for grade separated crossings.

- The trail surface shall be firm and stable. The Forest Service Accessibility Guidelines defines a firm surface as a trail surface that is not noticeably distorted or compressed by the passage of a device that simulates a person who uses a wheelchair. Where rights-of-way are available, paths can be made more accessible by creating side paths that meander away from a roadway that exceeds a 5% slope.



Shared-use paths surfacing materials affects which types of users can benefit from the facility.

### Design Considerations & Guidelines

- General guidelines have been created in response to the ADA for accessible trails.
- FHWA. (2001). Designing Sidewalks and Trails for Access, Chapter 14: Shared Use Path Design, Section 14.5.1: Grade. [www.fhwa.dot.gov/environment/sidewalk2/sidewalks212.htm#tra2](http://www.fhwa.dot.gov/environment/sidewalk2/sidewalks212.htm#tra2)
- Regulatory Negotiation Committee on Accessibility Guidelines for Outdoor Developed Areas Final Report, (1999). [www.access-board.gov/outdoor/outdoor-rec-rpt.htm](http://www.access-board.gov/outdoor/outdoor-rec-rpt.htm)

## Access Control

Access control devices are intended to minimize the potential for trail user conflicts by restricting vehicular access to trails or serving as barriers from dangerous conditions. Access control measures can include, but are not limited to, railings, fences, gates, and bollards or guard posts. Landscaping and/or natural features can also be used effectively for access control in some settings. Each type of access control has its place, as indicated in the Design Guidance below.

### Design Standards

#### Bollards/Guide Posts

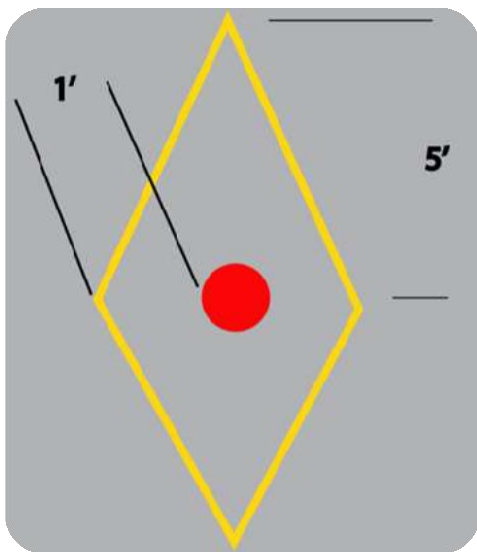
Bollards should only be used or installed in areas where it is likely a vehicle will mistake the trail for a possible vehicular road or where there have been documented claims that vehicles have been driving on the

trail. Bollards have become more of a hazard to trail users than users being run over or into by illegal vehicle trespass on multi-use trails.

Therefore, bollards should be installed on an as needed basis rather than adding them to every project and crossing of streets. When determined they are needed, access control bollards may be made of any number of materials, including but not limited to: wood, concrete, plastic (PVC), or steel, as appropriate to a particular setting. Sizing should be appropriate for both maximum visibility and as a visual deterrent to motor vehicles. Surfaces of the bollard should be relatively smooth, with no protruding objects to snag on clothing or appendages of passersby. Selection of bollard materials is less important than their placement. If deemed necessary for a particular trail access point, bollards should be placed only in the center of the trail and (if additional protection is necessary), at either edge. For a typical ten-foot trail, this would result in two five-foot-wide accessible openings on either side of the trail centerline. In specific situations where ATV access must be addressed such as within AMAFCA facilities, bollard spacing may be reduced to provide a minimum 36"-wide clear opening on either side of the trail centerline. This will permit wheelchair access, but exclude all but the smallest ATVs (and motorcycles). Bollards should be brightly painted and reflectorized for greater visibility, especially in low light conditions.

A specific diamond shaped stripe shall be placed around center bollards per AASHTO. If maintenance and emergency vehicles are expected to gain access via the trail itself, access control bollards should be designed for easy removal or collapse. Otherwise, gates should be provided in adjacent fences or railings to permit such access. Consultation with local authorities is advised in such situations. Although AMAFCA currently requires 36-inch maximum spacing on bollards, the proposed PROWAG standards will require 48-inch spacing. A minimum of 48-inch spacing is required to pass certain types of cycles for ADA use such as those that have parallel seating and are over 36 inches wide.

**Figure 14: Typical Striping around Bollard**



Following is a list of best practices that should be consistent when installing bollards at any trail facility by the City of Albuquerque:



- Only apply bollards if the need is demonstrated, or if the trail entrance cannot be designed or modified to discourage use by unauthorized motor vehicles. Bollard use should be reserved for problematic locations.
  - Bollards should not be installed on trail facilities that parallel a roadway unless it is identified as a problematic location.
  - Bollards should be considered along obscured facilities that are not readily visible and at other problematic locations.
- All bollards should be made of a retro-reflectorized material or have retro-reflectorized tape affixed to them for easy visibility from both approaches to the bollard.
  - Where possible, retractable bollards should be implemented. Appropriate usage ensures that the bollards will remain in place and cannot be removed from the site and when retracted, the bollard will not be a hazard as there is no “collar” that sticks up when the bollard is removed due to this type of bollard retracting into the ground rather than coming off.
- Bollards should be 40 inches in height (minimum) and 4 inches (minimum) in diameter to ensure visibility but short enough to not interfere with handlebars on cycles.
  - In most instances, a single bollard should be placed at the centerline of the trail, where adequate sight distance is available.
- An even number of bollards shall never be used as they typically will be placed in the center of the travel way for each travel direction and they tend to direct users into each other causing confusion.
- If it is necessary to restrict access adjacent to the multi-use trail to restrict motorized traffic, bollards should be placed a minimum of 2-feet off of the edge of the trail.
- A minimum clear width of 5 feet should be provided between the edge of trail and the edge of the bollard.
- A striped envelope (4 inch wide, retro-reflective yellow “diamond”) should be striped around the bollard to provide guidance to divert users around the bollard. A striped yellow centerline should also be provided along the trail for 25-feet on either side of the bollard.
- Bollards should be set back 30-feet from the roadway to separate the conflict point for users between the roadway and bollards, or as far back as is practical based on site conditions.

These recommendations are consistent with what the Parks and Recreation Trails Planner drafted in 2012 and a draft paper developed by the Greater Albuquerque Recreational Trails Committee (GARTC) as well as ideas coming from a coordination meeting held July 22, 2013. Standards to ensure consistent application should be implemented by all departments of the City of Albuquerque. Every trail and entrance are unique and special consideration will need to be given to each site to determine how best to place bollards, if the need for bollards is demonstrated.

### ***Design Considerations & Guidelines***

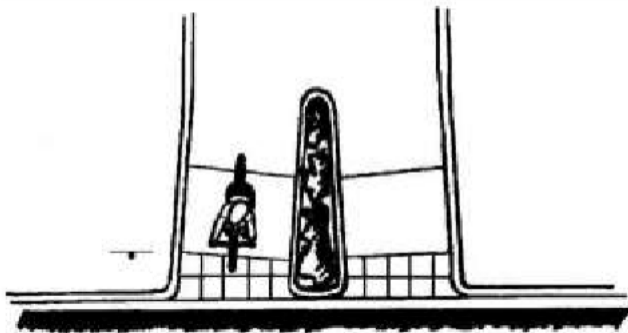
In recent years, the use of bollards as trailhead access control has become the subject of some debate. Posts or bollards have commonly been used to restrict vehicular access at roadway intersections. In addition, they serve a secondary purpose of warning trail users of the upcoming intersection. On the other hand, bollards also present obstacles for trail users to negotiate, and therefore become potential hazards, particularly in times of low visibility. While there is not yet consensus on the issue, it is increasingly held that in older, established areas of the city, where people are familiar with the existence of non-vehicular trails, bollards may no longer be necessary.

Trailhead access control can also take other forms beyond the use of posts or bollards. An attractive alternative might involve dividing the trail into two one-way paths, half the width of the total trail, with a

landscaped median or other central barrier (**Figure 51**). The resultant one-way paths are generally narrow enough to discourage vehicular access, while better defining trail movements. The trail could also be divided around power poles or other existing features in order to eliminate the need for adding bollards. This configuration works particularly well with traffic signal poles that incorporate user-activated crosswalk signals.

At the same time, it should be acknowledged that bollards or medians by themselves do not serve as effective deterrents to trail access by motorcycles and smaller all-terrain vehicles (ATVs), which can be a significant nuisance in some areas, while also being illegal per City Ordinance. Some years ago, a common solution involved the placement of specially-designed bicycle gates or wheelchair-accessible chicanes across trails to exclude such vehicles. Today, however, the consensus seems to be that such measures are more of a nuisance for legitimate users; especially bicyclists. Instead, enforcement and user vigilance seem to be fairly effective at keeping unauthorized uses to a minimum, at least on more heavily-used trails.

**Figure 15: Divided Trail Access with Median**

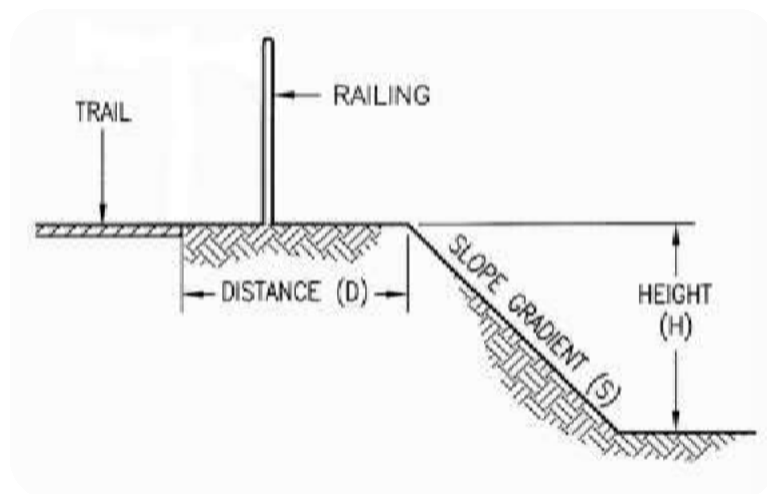


## Fencing & Railings

### Design Standards

The figure below provides criteria for appropriate application of various railing types.

**Figure 16: Railing Warrants**



**Table 4: Slope Gradient by Distance**

DISTANCE (D)	SLOPE GRADIENT (S)	HEIGHT (H)	RAILING TYPE
10' or further	any	any	None
5'-10'	3H:1V or flatter	any	None
5'-10'	3H:1V to 1H:1V	12' or more	2-Bar
5'-10'	1H:1V to vertical	6' or more	2-Bar
5' or closer	3H:1V to 2H:1V	6' or more	2-Bar
5' or closer	2H:1V to 1H:1V	4' or more	2-Bar
3'-5'	1H:1V to vertical	1.5' – 4'	4-Bar / 6-Bar
3'-5'	1H:1V to vertical	4' or more	Barrier
3' or closer	<b>1H:1V to vertical</b>	<b>1.5' or more</b>	<b>Barrier</b>

### Design Considerations & Guidelines

#### Railings

Protection railings should be used in situations where trails cross, or are adjacent to, drop-offs, steep slopes, hazardous drainage facilities, or other conditions where the trail user would be ill advised to leave the trail.

Railings usually take the form of two-, four-, or six-bar steel pipe railings, depending on the severity of the conditions behind the railing. In cases where extremely hazardous conditions exist along a trail a barrier railing should be used. Barrier railings are those with spaces of six inches or less (or three inch, maximum, openings to comply with U.S. Consumer Product Safety Commission (CPSC) guidelines near playgrounds or other areas frequented by small children). Railings are preferred over fencing in such situations because steel pipe is inherently stronger than most fencing. Railings also present a smoother surface than fencing, which often facilitates recovery if a cyclist wanders off the trail (i.e. brushing against a railing would typically be less catastrophic than catching a handlebar end in a fence mesh).

#### Fencing

Fencing along trails serves two purposes: access control and/or screening. Access control fencing usually consists of wire mesh (e.g. field fence), multiple individual wire strands (high-tensile fencing), or simply a single strand of cable suspended between posts (the aptly named "post-and-cable



*Post and wire fence.*



*Open boundaries can be used where users may be entering or exiting the trail.*

barrier”). Screen fencing, on the other hand, can be comprised of a wide range of materials, but should conform to three main criteria:

- Screen fencing should not be totally opaque; rather it should provide for limited or indirect visibility to and from the trail corridor (e.g. offset “shadow-box” pickets).
- Materials should be strong enough to withstand impacts from trail users in the event of unintentional contact (for instance, vinyl fencing, while decorative, may not be capable of supporting a horse, or even a cyclist, if the fence is hit with any force).
- Fencing along trails should not contain any sharp edges or corners which could serve as snag points or otherwise cause injury to trail users.

## Managing Multiple Users

Trails that experience high levels of use, particularly by a variety of user types, may become overcrowded and undesirable for some users. The City should consider widening a high-use trail where feasible; otherwise, treatments such as separating bicycle and pedestrian areas, pavement markings and etiquette signs can improve sharing the trail.

### Design Standards

- Stripe a centerline. See guidelines below for specifics.
- Separate bicycle and pedestrian areas where feasible.
- Barrier separation – vegetated buffers or barriers, elevation changes, walls, fences, railings and bollards.
- Distance separation – differing surfaces.
- Install Park & Recreation Department typical trail etiquette signage, the “yield to” sign.
- In Major Public Open Space areas, trailheads should have regulation signage as well as the Open Space Division’s trail etiquette or “yield to” signage.

### Design Considerations & Guidelines

Centerline striping shall be used to encourage users to stay on a particular side of the trail. Use of thermoplastic material shall be used. The line shall be colored yellow and dashed using 3 foot long skips and 9 foot spacing between dashes. Refer to AASHTO for recommendations when solid center stripes should be used such as on turns or curves. Centerline striping is particularly beneficial in the following circumstances:

- For heavy volumes of bicycles and/or other users,
- On curves with restricted sight distance, and
- On unlighted paths where nighttime riding is expected.
- Differing surfaces suitable to each user group foster visual separation and clarity of where each user group should be. A dirt track can draw runners, equestrians,



Centerline striping encourages trail users to provide space for other users to pass.



Albuquerque uses guidance signage to encourage multiple users to share trail facilities.



and walkers to reduce conflicts with cyclists. When trail corridors are constrained, the approach is often to locate the two different trail surfaces side by side with no separation.

The MUTCD contains information about centerline striping.

## Equestrian Facilities

### Design Standards

#### Width

- 5-6 feet in low (rural) development
- 8-12 feet in moderate to high development

#### Lateral Clearance

- A 3 foot or greater shoulder on both sides.

#### Overhead Clearance

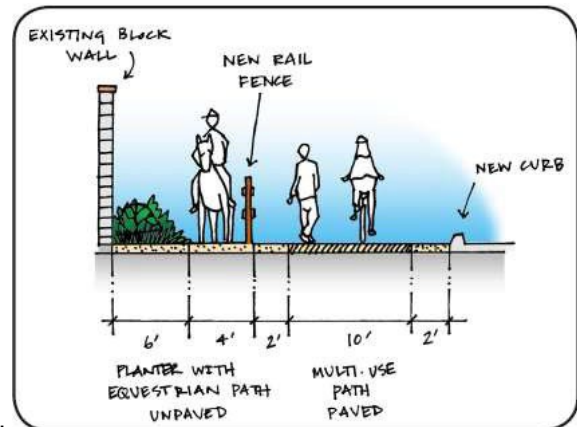
- Clearance to overhead obstructions should be 10 foot minimum, with 12 feet recommended.

### Design Considerations & Guidelines

With a multi-use trail system, planners and designers should always work to incorporate facilities that will accommodate all trail users whenever possible and feasible. Equestrians often are not thought about when designing in more urban trail areas. With an ever growing and interconnected trail system that extends from rural to urban, equestrian design should always be incorporated. Specifically, a bridge or tunnel should be expected to be used by equestrians and additional criteria should be taken into consideration:

- Overhead clearance is particularly important to accommodate both horse and rider. Ten-foot clearance is a minimum (twelve feet is preferred) without requiring the rider to dismount or duck.
- Horses may be frightened by the sound and motion of traffic beneath them, which could, in turn, result in injury to the rider. Therefore, equestrians tend to prefer underpasses to bridges. (However, adequate sight distances are critical. Poorly designed underpasses can also be dangerous, if, for example, a fast-moving bicycle suddenly appears within the confines of a narrow tunnel.) If a bridge is the only alternative for an equestrian crossing, solid side walls or other screening should be provided for at least three feet up from the bridge deck to minimize visibility of traffic below.
- Trail etiquette signs are triangular and look like yield signs and should be placed throughout the trail system/network. These signs help to educate trail users understand who has the right of way when approaching and passing each other. The sign is typically made to be 24 x 24 inches in size.

Walkers, hikers and cyclists often share trail corridors with equestrians. Pedestrians and riders are often compatible on the same tread as they both accept unpaved surfaces and move at relatively slow speeds.



*Recommended design for a multi-use path that accommodates equestrians.*



*Example multi-use equestrian trail.*



However, fast moving and quiet cyclists approaching a horse from behind are a valid concern for riders. In areas where conflicts seem likely, efforts are made to physically separate the different user groups.

For equestrian routes, trail tread or surface should be relatively stable. The trail surface should be solid, obstacle-free and should stay in place. Appropriate trail surfaces include: compacted native soil, crusher fines and decomposed granite. Hard surfaces, such as asphalt and concrete are not amenable to equestrians.

Trails that are comfortable for equestrians are ones that accommodate most trail users. While horses can easily negotiate grades up to 20 percent for short distances (up to 200 feet), steeper running grades result in faster water run-off and erosion problems. Following contours helps reduce erosion problems, minimize maintenance needs and increase comfort levels. A 2 percent cross slope or crowned tread and periodic grade reversals along running slopes will minimize standing surface water and will resolve most drainage issues on a multi-use path. An exception is to cut sections where uphill water must be collected in a ditch and directed to a catch basin, where the water can be directed under the trail in a drainage pipe of suitable dimensions. Additionally, on running grades steeper than 5 percent, add 6-12 inches of extra tread width to help enhance safety and user comfort where possible.

- USDA/FHWA Equestrian Design Guidebook for Trails, Trailheads, and Campgrounds.

## Signage

Development of a consistent signage system is an important element in the creation of a unified and recognizable trail system in metropolitan Albuquerque. Signage can be grouped broadly into two categories: regulatory and informational. Regulatory signage includes warnings, regulations, and directives applicable to trail use in general (Stop, No Motor Vehicles, Trail Etiquette, etc.), while informational signage would refer to a signage package specific to a particular trail and location, providing information such as the trail name (especially at designated trailheads), connections to other trails or facilities (through maps or directional arrows), and distances to key destinations. In an effort to expand trail accessibility, these signs also often include information such as trail length, grades, cross slopes, and obstacles which may be encountered (see Trail Difficulty Rating System).



Figure 10b - Bike Facilities map

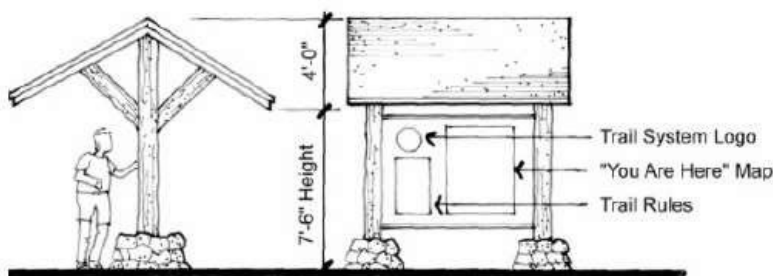


Figure 10c - Example of a trail information kiosk

### Design Considerations & Guidelines

Regulatory signage should be placed where most visible and effective, and should be grouped, where practical and appropriate, to minimize the number of posts (potential obstacles). In some cases, free-standing signs may be replaced by pavement markings, for the same reasons. (A specific example

would be to replace “Stop Ahead” signs with the same message painted on the trail surface. See Pavement Markings discussion below.) Sizing and placement should be in accordance with the most recent version of the Federal Highway Administration’s Manual on Uniform Traffic Control Devices (MUTCD) Part 9, Bicycle Facilities. However, the City Parks and Recreation Department has developed a few signs that will give Albuquerque’s paved multi-use trail network its own sense of community and style.

Trail signage has been designed with a standardized mounting system and graphic medium which can be easily modified or replaced as the trail system grows. Using the same design scheme throughout the entire Trail Network will help users understand that the network is a large system. For example, if you are on a trail on the west side of the City and see the specific green/blue general regulatory/informational sign, you will also see this same sign on a trail that is part of the network on the east side of the City. However, creativity and customization of trail-specific information signage is encouraged in addition to having the “network specific” regulatory signage in order to develop individual identities for each trail facility.

### ***Pavement Markings***

In general, pavement markings supplement or reinforce the regulatory signage, and are comprised of striping, text, and/or stenciled figures. Centerline striping shall be used to help define directions of travel or separate different user groups on multi-purpose trails and be yellow per AASHTO’s recommendations, while solid white edge striping gives trail users visual reinforcement of the limits of the trail surface, which is particularly valuable in low light conditions (especially if a potentially hazardous condition exists beyond the edge of the trail). Text is generally intended to convey warnings of changing conditions ahead, although it is sometimes used in place of or in addition to vertical regulatory signage (such as “Yield” signs). Figures usually take the form of arrows or other symbols, or may be used to designate portions of the trail for different modes of travel.

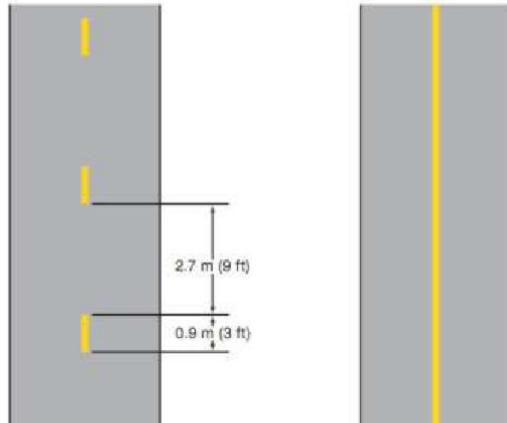
### ***Design Considerations & Guidelines***

Striping along a trail should be consistent, as any change in color, thickness or width can be perceived as an indication of an expected change. An example of this would be changing from dashed to solid striping on sharp curves which require cyclists to slow down (as described in the Trail Alignment section above).

Placement of text on the pavement, rather than on post-mounted signs, can reduce potential vandalism and/or graffiti targets; however, they are more easily overlooked, and are easily obscured by snow or wind-blown debris. Therefore, critical signage such as “Stop” signs should still be provided on posts alongside the trail.

Both AASHTO and MUTCD provide additional guidance on striping trail facilities.

**Figure 17: Examples of Centerline Markings for Trails**



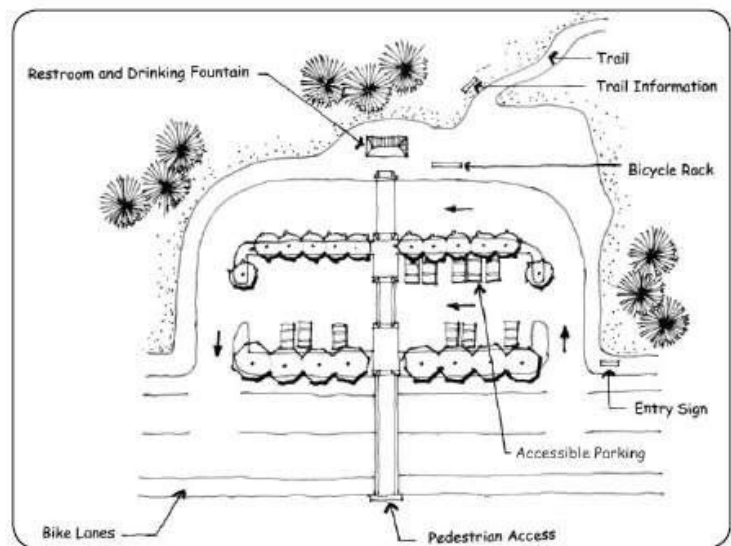
## Trail Heads & Amenities

### Trailheads

Major trailheads should include automobile and bicycle parking, trail information (kiosks including maps, user guidelines and regulations, wildlife information, etc.), garbage receptacles and if possible on a location by location basis; restrooms and water fountains. Minor trailheads can provide a subset of these amenities.

Good access to a path system is a key element for its success. Trailheads (formalized parking areas) serve the local and regional population arriving to the path system by car, transit, bicycle or other modes.

Trailheads provide essential access to the shared-use path system and include amenities like parking for vehicles and bicycles, restrooms (at major trailheads) and posted maps.



*Example major trailhead.*

All areas of newly designed or newly constructed and altered portions of existing trails connecting to designated trailheads or accessible trails should comply with the most recent and stringent ADA regulations. However, the guidelines do recognize that often the natural environment will prevent full compliance with certain technical provisions. The accessibility audits that the Parks and Recreation Department is working on that started in 2013 will provide an idea of what needs to or can be done to help make trail heads more accessible if and when possible.

### Design Considerations & Guidelines

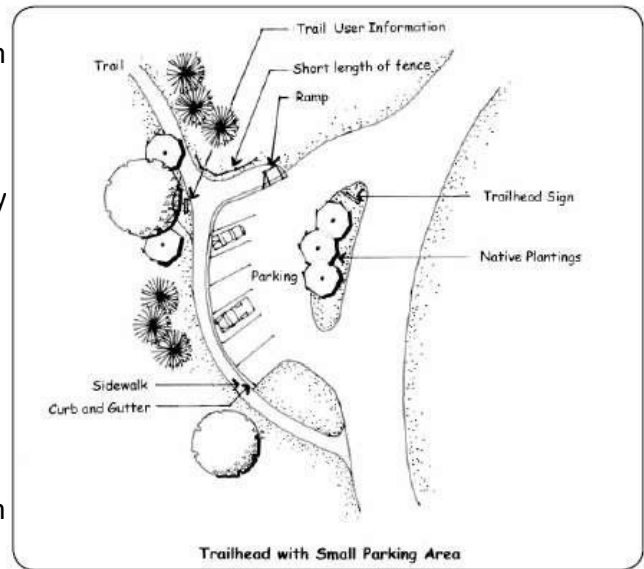
- AASHTO Guide for the Development of Bicycle Facilities. Regulatory Negotiation Committee on Accessibility Guidelines for Outdoor Developed Areas.

### Trailhead Parking

One of the City's goals is to provide a trail network which offers ready access to and from all parts of the city, thereby enabling a reduction in automobile usage. Nonetheless, due to gaps in that developing system, as well as simple human nature, the fact remains that many people do, and will continue to use vehicles to get to the trails. As a result, it is necessary to provide parking wherever possible at trailheads and other major access points along the City's trail network.

#### Design Considerations & Guidelines

At a minimum, parking should be provided for cars, with additional spaces provided for horse trailers at trails likely to see equestrian usage. The size/capacity of each parking area should be determined in consultation with the Parks and Recreation Department, and should be based upon projected usage of the trail. Design of the lots should follow parking guidelines set forth in the Development Process Manual (DPM). Parking lots serving accessible trails should have been designed to current ADA standards for parking lots.



Example minor trailhead.

### Amenities

The provision of amenities such as benches and/or tables, trash receptacles, lighting, water fountains, shade structures, industrial type vandal resistant bicycle pumps, and even restrooms tends to make trail use more enjoyable, especially on longer trails. Trail-related amenities can range from minor to major, both in terms of initial installation costs and long term maintenance issues. A major trail improvement might include a restroom facility with a water fountain, as well as benches, bicycle rack, and a trash receptacle. These major amenities should typically be provided in areas with high traffic and, preferably, overlapping uses (e.g. where a trail passes through a park or other public gathering area) in order to maximize return on the investment. Minor improvements, on the other hand, might include benches (or even sitting-height boulder groupings) or trash receptacles, alone or in combination, situated at intervals along the trail. Shade structures – always welcome in the Southwest climate – and directional signage packages fall in the mid-range of the amenity scale.

Lighting may be used for visual accent, as well as providing additional security in areas of concern, such as tunnels or other isolated locations. Fixtures should be vandal resistant and should be placed where they most effectively illuminate the trail (or key features within the corridor), without shining in trail users' eyes. They should also be designed and/or located in such a way as to shield nuisance light and minimize impact on adjacent properties. AASHTO provides additional recommendations for lighting in its Guide for the Development of Bicycle Facilities. For the 50 Mile Activity Loop amenities and other information, please refer to that specific Plan.

#### Design Considerations & Guidelines

Development of trail amenities should follow a conscious plan whereby major amenities are grouped in nodes at key locations, while minor amenities are consistently found along the length of each trail.



Styles of amenities should be compatible with adjacent development or closely allied with other amenities found along the length of the trail, in a thematic arrangement. Materials for benches, trash receptacles, tables, and such, must be of durable materials and should be designed (or coated) for easy graffiti removal. Introduction of bicycle pumps used to inflate soft or flat tires will start in 2014. Use of recycled materials is encouraged wherever possible. Coordination with the City's Park Management Division is also encouraged during the material selection process, in order to ensure that maintenance issues are adequately addressed.

## Landscaping

### *Design Considerations & Guidelines*

Landscaping along trails typically will fall into one of two categories: revegetation or enhancement. At a minimum, disturbed land within trail corridors should be re-seeded with native grasses (and wildflowers, where appropriate) according to Section 1012 of the City Standard Specifications. Those specifications list two generic seed mixes (for sand or clay soils) which may be used city- wide, with the condition that the shrub component (four- wing saltbush, etc.) be eliminated from seeding alongside recreational trails unless more than 5 feet away from edge of trail (however, the inclusion of xeric shrubs in the seed mix may be desirable for slope stabilization in areas of significant cut or fill). As an alternative to those generic mixes, trail developers may use a more site-specific mix, specified by the project landscape architect, Planner, or in consultation with the City Open Space Division. The addition of wildflower seed to a revegetation mix will provide color and seasonal interest to the trailside, and is particularly effective where the seeding can take advantage of any available supplemental water (e.g. sprinkler overspray from adjacent properties, collected storm water, etc.). Specifically where goat heads (puncture vine) are present or a nuisance, native plants that can out-compete the goat heads should be considered.

More intensive "enhancement" landscaping may be appropriate for high use areas; perhaps at an important trailhead, through a neighborhood development, or in conjunction with a major trail amenity/improvement as identified above. The viability of such landscaping is dependent upon the availability of water and electricity (or alternative power) for an irrigation system, and the establishment of a maintenance agreement with the City Parks Department or a private entity, prior to implementation.

Regardless of the type of landscaping considered, shoulder and clear-zone requirements (as identified earlier in the Trail Dimensions section) shall be followed. Native seeding should be kept back two feet from the edge of the trail (unless it is strictly grasses), in most cases, to allow for the graded, compacted shoulders. Trees are encouraged along trails for the shade that they provide; however, they should be planted at least 6-10 feet back from the edge of trail (to maintain the three-foot clear zone at maturity), and further, if possible, to minimize root damage to the trail surface. Likewise, shrubs should be located such that their branches do not interfere with the trail as they mature. Plant materials in general should be selected for people- and trail-friendly characteristics: thorny plants, trees which tend to drop messy fruit/seeds/pods (which could affect surface traction), and heavy pollen-producers



*Landscaping improves the walking and bicycling experience, and can deter vandalism.*



*Vancouver, B.C. has a program where neighbors adopt a traffic circle, and an annual reward is given to the most beautiful one.*



should not be used alongside trails. Native, non-invasive, low water use trees whose roots go downward rather than outward are highly recommended and encouraged next to shared-use paths.

### ***Safety & Visibility***

In addition to design factors such as stopping sight distances and trail widths, trail design must also take into consideration geographical and environmental factors such as local weather conditions, location (surroundings), and visibility. There is usually a strong correlation between a trail user's sense of security and the level of visibility, both into and out from the trail. Therefore, trail designers should strive to maintain a balance between the privacy of adjacent landowners, and security concerns of trail users. Security concerns on a trail can be addressed through Crime Prevention through Environmental Design (CPTED) guidelines.

Crime Prevention through Environmental Design (CPTED) The four principles of CPTED are:

- Natural surveillance – maintaining sight lines and visibility to deter criminal activities.
- Natural access control utilizes fences, lighting, signage and landscape to clearly define where people and vehicles are expected to be.
- Territorial reinforcement – use physical designs such as pavement treatments, landscaping and signage to develop a sense of proprietorship over the trail.
- Maintenance - if graffiti or vandalism occurs and is not repaired replaced right away, it can send the message that no one is watching or that no one cares.

### ***Design Considerations & Guidelines***

Design considerations for maximizing visibility include location, height, and type of fencing (see Access Control section below); clear lines of sight into and through tunnels, underpasses, and bridges; elimination of blind corners at intersections and other locations; and the addition of lighting in appropriate areas.

Weather-related design consists primarily of maximizing solar orientation to minimize dangers from ice and snow accumulation. In some cases, protection from potentially gusty winds may be appropriate for open, exposed stretches of trail. Discussion of potential hazardous conditions related to storm water runoff is contained in the Drainage section below.

### **Privacy of adjacent property owners**

- Encourage the use of neighborhood friendly fencing and also planting of landscape buffers.
- Clearly mark path access points. Post path rules that encourage respect for private property.
- Strategically placed lighting.



*Neighborhood-friendly fencing deters trail users from disturbing private property.*



*Bollards and pavement change prevent motor vehicles from using the trail.*

### Unwanted vehicle access

- Utilize landscaping to define the corridor edge and path, including earth berms or boulders.
- Use bollards at intersections as needed and as outlined in various bollard assessments, future policies, and AASHTO.
- Pass a motorized vehicle prohibited ordinance and sign the path.
- Create a Trail Watch Program and encourage citizens to photograph and report illegal vehicle use of the corridor. Authorized vehicles are not considered “illegal” vehicle trespass.
- Lay the shared-use path out with curves that allow bike/pedestrian passage but are uncomfortably tight for automobile passage



*Rest stops should provide garbage receptacles to minimize littering.*

### Litter and dumping

- Post rules encouraging pack it in/pack-it-out practices.
- Place garbage receptacles at trailheads.
- Strategically placed lighting, utilizing light shields to minimize unwanted light in adjacent homes.
- Manage vegetation to allow visual surveillance of the path from adjacent properties and from roadway/path intersections.
- Encourage local residents to report incidents as soon as they occur.
- Remove dumpsites as soon as possible.



*Emergency call boxes improve users' feelings of safety.*

### Trespassing

- Clearly distinguish public path right-of-way from private property through the use of vegetative buffers and the use of good neighbor type fencing.
- Post rules encouraging respect for property.

### Local on-street parking

- Designate residential streets as parking for local residents only to discourage user parking.
- Place “no outlet” and “no parking” signs prior to path access points.
- Accessible parking should be provided when feasible.

### Crime

- Manage vegetation to ensure visibility from adjacent streets and residences.
- Place lights strategically and as necessary.
- Place benches and other amenities at locations with good visual surveillance and high activity.
- Provide mileage markers every 1/4 mile and clear directional signage for orientation.

- Create a “Trail Watch Program” involving local residents.
- Encourage proactive law enforcement on the trail.

### Vandalism

- Select benches, bollards, signage and other site amenities that are durable, low maintenance and vandal resistant.
- Respond through removal or replacement.
- Keep a photo record of all vandalism when possible and turn it over to local law enforcement.
- Encourage local residents to report vandalism.
- Create a Trail Watch Program and maintain good surveillance of the corridor.
- Involve neighbors in trail projects to build a sense of ownership.
- Place amenities in well used and visible areas.

### Visibility

There is usually a strong correlation between a trail user’s sense of security and the level of visibility, both into and out from the trail. Therefore, trail designers should strive to maintain a balance between the privacy of adjacent landowners, and security concerns of trail users.

Design considerations for maximizing visibility include:

- the location, height, and type of fencing (see Access Control section);
- clear lines of sight into and through tunnels, underpasses, and bridges;
- elimination of blind corners at intersections and other locations; and
- addition of lighting in appropriate areas.



*Trails should provide frequent access points into neighborhoods.*

### Community Involvement to Make Trails a Better Place

Creating a secure trail environment goes beyond design and law enforcement and should involve the entire community. The most effective and most visible deterrent to illegal activity on Albuquerque’s trail system will be the presence of legitimate path users. Getting as many “eyes on the corridor” as possible is a key deterrent to undesirable activity.

- **Good access to the path** - Access ranges from providing conveniently located trailheads along the trail to encouraging the construction of sidewalks to accommodate access from private developments adjacent to the trail. Access points should be inviting and signed so as to welcome the public onto the trail.
- **Good visibility from neighbors** - Neighbors adjacent to the trail can potentially provide 24-hour surveillance of the trail and can become Albuquerque’s biggest ally. Though some screening and setback of the path is needed for privacy of adjacent neighbors; complete blocking out of the trail from neighborhood view should be discouraged. This eliminates the potential of neighbors’ “eyes on the trail” and could result in a “tunnel effect” on the trail.
- **High level of maintenance** - A well-maintained trail sends a message that the community cares about the public space. This message alone will discourage undesirable activity along the trail.

- **Programmed events** - Community events along the trail will help increase public awareness and thereby attract more people to use the trail. Neighbors and residents can help organize numerous public events along the path which will increase support for the path. Events might include a day-long path clean up or a series of short interpretive walks led by long-time residents or a park naturalist.
- **Adopt-a-trail Program** - Nearby businesses, community institutions and residential neighbors often see the benefit of their involvement in trail development and maintenance. Businesses and developers may view the trail as an integral piece of their site planning and be willing to take on some level of responsibility for the trail.
- **Trail Watch Program** - Partnering with local and county law enforcement, a trail watch program would provide an opportunity for local residents to become actively involved in crime prevention along Albuquerque's trail system. Similar to Neighborhood Watch programs, residents are brought together to get to know their neighbors and are educated on how to recognize and report suspicious activity. Although this section is related to better awareness, trail watch programs do not solely need to be tied to crime prevention. Many people can report fun items in trail watch reports such as different wildlife and bird sightings and other nature specific items such as interesting native vegetation as well as where noxious weeds are located.

## Multi-use Trails

Development of a consistent signage system is an important element in the creation of a unified and recognizable trail system in metropolitan Albuquerque. Signage can be grouped broadly into two categories: regulatory and informational. Regulatory signage includes warnings, regulations, and directives applicable to trail use in general (Stop, No Motor Vehicles, Trail Etiquette, etc.), while informational signage would refer to a signage package specific to a particular trail and location, providing information such as the trail name (especially at designated trailheads), connections to other trails or facilities (through maps or directional arrows), and distances to key destinations. In an effort to expand trail accessibility, these signs also often include information such as trail length, grades, cross slopes, and obstacles which may be encountered (see **Trail Difficulty Rating System**).

Wayfinding can be a challenge for most trail users. A system needs to be established to provide effective wayfinding for the trail users and location identification for emergency responders.

## Trail identification

Multi-use trails are typically identified by name, usually coinciding with the major feature which they parallel such as an arroyo, highway or geographical location. Examples of these are the Bear Canyon, I- 40 trail and Paseo del Bosque multi-use trails. Knowing where you are on these trails can be difficult due to lack of an addressing system. A logical system needs to be established that provides the trail user with their location and direction of travel. Multi-use trails shall follow the following conventions with regards to direction and location.

### Trail Name

- Officially recognized trails should all have names. Trail names should be memorable, informative, and linked to specific trail sections.
- Names are more useful when easier to recall. In general, words are more memorable than numbers. More specific names are better than generic ones ("Sandia Crest Trail" rather than "Long Trail"). Sets of trail names should be easy to distinguish (avoid sets like "Tramway Trail", "Tramway Hills Trail,"



“Tramway Heights Trail” etc.). Using both Spanish (“Paseo de las Montañas”) and English (“North Diversion Channel Trail”) adds to distinctiveness and honors New Mexico’s multilingual heritage (in part).

- Trail names can be useful when they provide information on trail location, trail connections and character or function of the trail. Many of the paved trails in the Albuquerque area are named for the roads or watercourses that they parallel. This helps locate where they are, but can be problematic when trails or trail sections only follow a part of a road or watercourse that runs a long distance. Names like “Mariposa Linear Park” and “Emery Trail” show links to Mariposa Basin, and the Michial Emery trailhead respectively.
- Separate trail sections should receive distinct names, even if along same road or watercourse. Sections can be distinguished by suffixes such as “east, central, west” or other appropriate divisions. Foothills trail 365 should be divided into “North” and “South” sections.

### Trail direction and mile marker

- The trail names shall be posted on trail signage at street and trail intersections. Stencils on paved trails offer a defacement-resistant alternative to traditional post-mounted, eye-level signage.
- Multi-use trails that have a predominantly south/north alignment shall have a mile marker designation that begins at mile zero at the southern terminus of the trail. If there are plans to extend the trail towards the south the mile marker shall begin at the future southerner terminus of the planned extension. The mile markers shall increase along the trails alignment in the northerly direction.
- Multi-use trail that have a predominantly west/east alignment shall have a mile marker designation that begins at mile zero the existing western terminus of the trail. If there are plans to extend the trail to the west the mile marker shall being at the future western terminus of the planned extension. The mile markers shall increase along the trails alignment in the easterly direction.
- When posting mile marking information shall be shown to the nearest 1/10th of a mile in decimal format. Whole number mile marks shall use a decimal point followed by a zero.



### Trail location

- Locations on a trail shall be identified by the distance from the beginning terminus of the trail expressed in miles and tenths of miles.

It would be beneficial to the trail users to include on the City’s bike map multi-use trail mile markers at major locations such as trail heads, trail/trail intersections and trail/street intersections. Emergency responders should be aware of the multi-use trail identification system and incorporate it into their dispatching protocol.



### Guidance

Trail identification/location marking and wayfinding can be comprised of signs, trail heads, kiosks, maps and pavement markings. The type of location marking is dependent on the location and anticipated needs of the trail users.

### Regulatory Signs

#### Design Considerations & Guidelines

Regulatory signage should be placed where most visible and effective, and should be grouped, where practical and appropriate, to minimize the number of posts (potential obstacles). In some cases, free-standing signs may be replaced by pavement markings, for the same reasons. (A specific example would be to replace “Stop Ahead” signs with the same message painted on the trail surface. See Pavement Markings discussion below.) Sizing and placement should be in accordance with the most recent version of the Federal Highway Administration’s Manual on Uniform Traffic Control Devices (MUTCD) Part 9, Bicycle Facilities. However, the City Parks and Recreation Department has developed a few signs that will give Albuquerque’s paved multi-use trail network its own sense of community and style. The following are examples of what the Parks and Recreation Department has implemented since 2013.

**Figure 18: Trail Etiquette Signs**



Informational signage should be dealt with on a trail-by-trail basis, developing a logo or theme for each trail, and developing a signage package which reflects that theme. This package has been designed with a standardized mounting system and graphic medium which can be easily modified or replaced as the trail system grows. However, creativity and customization of the trail-specific informational package, post (or alternative mounting) configuration and thematic colors are encouraged, in order to develop individual identities for each trail facility.

### Pavement Markings

In general, pavement markings supplement or reinforce the regulatory signage, and are comprised of striping, text, and/or stenciled figures. Centerline striping shall be used to help define directions of travel or separate different user groups on multi-purpose trails and be yellow per AASHTO’s recommendations, while solid white edge striping gives trail users visual reinforcement of the limits of the trail surface, which is particularly valuable in low light conditions (especially if a potentially hazardous condition exists beyond the edge of the trail). Text is generally intended to convey warnings of changing conditions ahead, although it is sometimes used in place of vertical regulatory signage (such as “Yield” signs). Figures usually take the form of arrows or other symbols, or may be used to designate portions of the trail for different modes of travel.

### *Design Considerations & Guidelines*

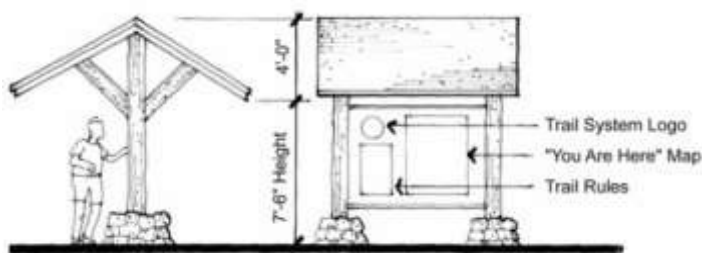
Striping along a trail should be consistent, as any change in color, thickness or width can be perceived as an indication of an expected change. An example of this would be changing from dashed to solid striping on sharp curves which require cyclists to slow down (as described in the Trail Alignment section above).

Placement of text on the pavement, rather than on post-mounted signs, can reduce potential vandalism and/or graffiti targets; however, they are more easily overlooked, and are easily obscured by snow or wind-blown debris. Therefore, critical signage such as “Stop” signs should still be provided on posts alongside the trail.

### *Guidance*

Both AASHTO and MUTCD provide additional guidance on striping trail facilities.

**Figure 19: Trail Information Kiosk**



### **Signage Location**

#### **Trail head**

Trail head identification should be used to indicate the terminus of the trail, thus informing users approaching the trail from an intersecting trail and when users are leaving a specific trail to use another trail. The trail head can be as simple as a sign identifying the trail by name or more informative by including additional

information, such as the City's Bike Map, or a map emphasizing the trail and showing the trail length, major destinations and distances and 911 emergency reporting instructions. A kiosk can provide a good location to display this information in addition to trail etiquette educational information and pet waste cleanup stations. Trail appurtenances near the kiosk may also improve user satisfaction and aid in alerting quick moving commuters to the congested quality, which maybe present near the kiosk.

#### **Mid-trail marking**

Mid-trail markings should be placed at 0.5 mile intervals starting at the southern or western trail terminus and shall include the trail name and mile marker. A combination of a pavement marking and sign can be used or pavement marking solely. Pavement markings showing the trail name and mile marker shall be placed on and parallel to the trail centerline using retro-reflective pavement marking utilizing a 4-inch high white letters and numbers. When a sign is used, a single, double-sided sign shall be placed on the right side of the trail in the direction of increasing mileage. The sign shall be a flexible fiberglass composite extending 3 feet above ground displaying the mile marker and optionally the trail name. An example of the mid-trail pavement marking and sign is shown in the figure below.

**Figure 20: Mid-trail Pavement Marking and Sign**



### **Trail/street intersections**

Where a multi-use trail intersects a street the trail name, trail mile marker and street name shall be displayed. In addition destination guide signs may be appropriate.

### **Intersection sign**

A post mounted street name sign, similar to a D3-1 with 4-inch initial upper-case letters with 3-inch lower-case letters, shall be located on the right side of the trail near as particle to the edge of the street right-of-way. These signs shall display the trail name and street name. For trails with long names appropriate abbreviations can be used.



### **Intersection pavement marking**

The street name shall be shown using retro-reflective pavement marking in 6-inch high white letters placed perpendicular to the trails centerline approximately 10 feet from the intersection. The trail name and mile marker retro-reflective pavement marking shall be placed on and parallel to the trail centerline using retro-reflective pavement marking using 4- inch high white letters and numbers and should be placed approximately 25 feet before the intersection.

### **Trail/trail intersections**

Where multi-use trails intersect the trail names and mile markers shall be shown using signs and pavement markings.

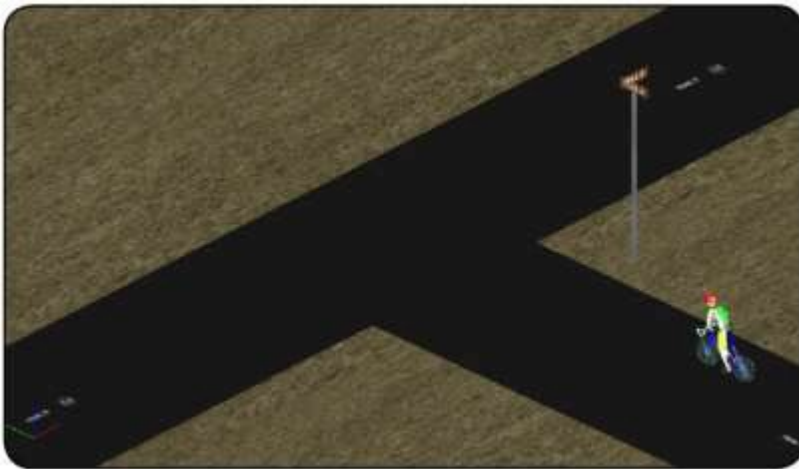
**Intersection sign**

Post mounted signs displaying both trail names, similar to a D3-1 sign with 4-inch initial upper-case letters with 3- inch lower-case letters, shall be located at the intersection. For trail with long names appropriate abbreviations can be used.

**Intersection pavement marking**

The trail name, for each trail, shall be shown using retro-reflective pavement marking in 4-inch high white letters and numbers. The multi-use trail name and mile marker shall be placed on and parallel to the center line of the trail approximately 25 feet before the intersection.

***Figure 21: Trail/Trail Intersection Signage***



# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN

## APPENDIX I: MULTI-USE TRAIL BOLLARD ASSESSMENT





**CITY OF ALBUQUERQUE  
CITY WIDE-ON CALL ENGINEERING SERVICES  
(TRANSPORTATION & STORM DRAINAGE)  
5015.00**

**TASK 3  
MULTI-USE TRAIL BOLLARD ASSESSMENT**

**Prepared For:**



**Prepared By:**

**PARSONS  
BRINCKERHOFF**

September 5, 2013

**Table of Contents****Page**

1. Introduction.....	1
2. AASHTO Criteria.....	1
2.1 Multi-Use Trails and Bollards.....	1
2.2 AASHTO and MUTCD Bollard Guidelines .....	2
3. City of Albuquerque Bollard Installations.....	3
4. National Guidance .....	9
5. Summary and Recommendations .....	10

**List of Figures****Page**

Figure 1: Bear Canyon Arroyo (East Entrance).....	5
Figure 2: Bear Canyon Arroyo (West Entrance).....	6
Figure 3: Bear Canyon Arroyo Trail .....	7
Figure 4: Gail Ryba Bridge .....	8
Figure 5: Recommended Practice for Bollard Placement .....	11

**List of Tables****Page**

Table 1: Multi-Use Trail Design Criteria Summary.....	4
---	---

**List of Appendices**

Appendix A: City of Albuquerque Standard Detail

Appendix B: Agency Bollard Standard Details

Appendix C: GARTC Draft Bollard Policy



## 1. INTRODUCTION

The purpose of this report is to identify relevant design criteria for bollards on multi-use trail facilities, review the installation of bollards on multi-use trails at several locations identified by the City, and develop best practices for implementation by the City of Albuquerque.

Common problems associated with bollards and multi-use trail facilities in Albuquerque include the following:

- Bollards present a collision hazard when placed on a multi-use trail.
- Inconsistent installations lead to user confusion and do not meet a consistent user expectation.
- Inadequate spacing between bollards results in users being unable to access facilities and don not comply with ADA requirements.
- Removable bollards are illegally removed from their locations when not locked.
- When not in place, removable bollards have a 1-inch high collar that becomes a trip hazard.
- When bollards are not in place, unauthorized motorized vehicles may utilize multi-use facilities.

## 2. AASHTO CRITERIA

### 2.1 Multi-Use Trails and Bollards

Bollards are a commonly used method of controlling vehicular access to multi-use trails. However, per the American Association of State Highway and Transportation Officials (AASHTO) *Guide for the Development of Bicycle Facilities, 2012 (Fourth Edition)*:

*"The routine use of bollards and other similar barriers to restrict motor vehicle traffic is not recommended. Bollards should not be used unless there is a documented history of unauthorized intrusion by motor vehicles. Barriers such as bollards, fences, or other similar devices create permanent obstacles to path users."*

*"Furthermore, physical barriers are often ineffective at the job they were intended for – keeping out motorized traffic. People who are determined to use the path illegally will often find a way around the physical barrier, damaging path structures and adjacent vegetation. A three-step approach may be used to prevent unauthorized motor vehicle entry to shared use paths:*

- 1. Post signs identifying the entry as a shared use path and regulatory signs prohibiting motor vehicle entry.*
- 2. Design the path entry locations so that it does not look like a vehicle access and make intentional access by unauthorized users difficult. A preferred method of restricting entry of motor vehicles is to split the entry way into two sections separated by low landscaping.*
- 3. Assess whether signing and path entry design prevents or reduces unauthorized traffic to tolerable levels. If motor vehicle incursion is isolated to a specific location, consider targeted surveillance and enforcement."*

There are no standards or recommended guidelines that have been established to identify a threshold for what constitutes a history of unauthorized motorized vehicular use on a multi-use trail, and the City of Albuquerque does not have a policy for when bollards should be considered.



## 2.2 AASHTO and MUTCD Bollard Guidelines

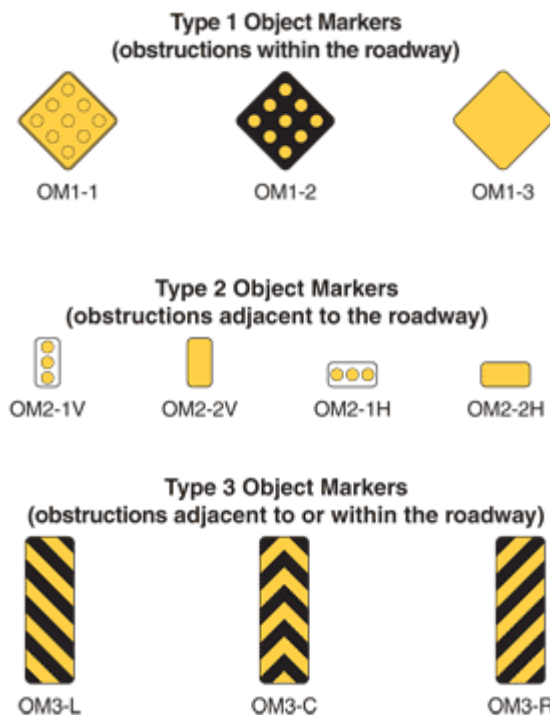
If a need for the implementation of bollards for a multi-use trail is identified, AASHTO has set forth several guidelines for the design of vertical barriers to make them as compatible as possible with the needs of path users and bicyclists. It should be noted that the parameters listed below are recommended practices and not design standards.

- Bollards should be marked with a retroreflectorized material on both sides or with appropriate object markers, per Section 9B.26 of the *Manual of Uniform Traffic Control Devices (MUTCD)*.
  - MUTCD Section 9B.26 Object Markers

Fixed objects adjacent to shared-use paths may be marked with Type 1, Type 2, or Type 3 object markers. If the object marker is not intended to also be seen by motorists, a small version of the Type 3 object marker may be used.

### Standard:

- Obstructions in the traveled way of a shared-use path shall be marked with retroreflectorized material or appropriate object markers.
- All object markers shall be retroreflective.
- On Type 3 object markers, the alternating black and retroreflective yellow stripes shall be sloped down at an angle of 45 degrees toward the side of which traffic is to pass the obstruction.





- Bollards should permit passage, without dismounting, for adult tricycles, bicycles towing trailers, and tandem bicycles. Bollards should not restrict access for people with disabilities.
  - Outdoor Developed Areas Accessibility Guidelines: 3 feet for clear tread width
  - Architectural and Transportation Barriers Compliance Board (Access Board): 5-feet is the minimum clear width for shared use paths
- Bollard placement should provide adequate sight distance to allow users to adjust their speed to avoid hitting them.
- Bollards should be a minimum height of 40 inches and minimum diameter of 4 inches.
- Striping an envelope around the approach to the post is recommended as shown below, to guide users around the object.

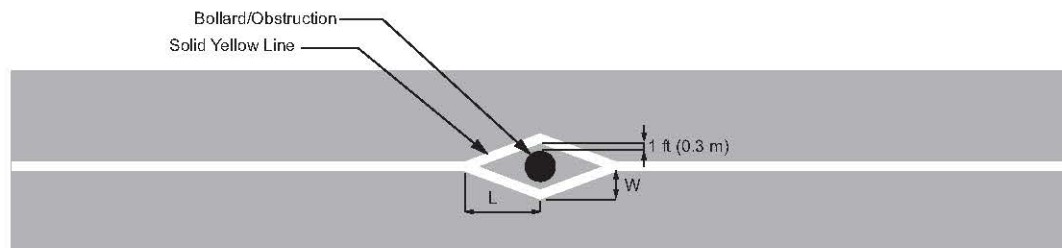


Figure 5-21. Bollard Approach Markings

Source: AASHTO *Guide for the Development of Bicycle Facilities, 2012 (Fourth Edition)*:

- One strategy is to use flexible delineators, which may reduce unauthorized vehicle access without causing the injuries that are common with rigid bollards.
- Bollards should be installed in locations where vehicles cannot easily bypass the bollard. Use of one bollard in the center of the path is preferred. When more than one post is used, an odd number of posts spaced at 6 feet is desirable. However, two posts are not recommended, as they direct opposing path users towards the middle, creating conflicts and the possibility of a head-on collision. Wider spacing can allow entry to motor vehicles, while narrower spacing might prevent entry by adult tricycles, wheelchairs users, and bicycles with trailers.
- Bollards should be set back from the roadway a minimum of 30 feet. Bollards set back from the intersection allow path users to navigate around the bollard before approaching the roadway.
- Hardware installed in the ground to hold a bollard or post should be flush with the surface to avoid creating an additional obstacle.
- Lockable, removable (or reclining) bollards allow entrance by authorized vehicles.

### 3. CITY OF ALBUQUERQUE BOLLARD INSTALLATIONS

The City of Albuquerque has installed bollards at numerous locations throughout the City's trail system to control vehicular access on trails. Currently, standards or recommended practices to ensure consistent application are not fully established by the City of Albuquerque to govern the design and installation of trail bollards. The only City Standard Drawing established for bollard installation pertains to an installation for access to a drainage facility (see [Appendix A](#)). As part of this assessment, the City





of Albuquerque requested that bollards at the following locations be reviewed and compared to AASHTO design guidelines:

- Bear Canyon Arroyo Bridge (East Entrance), at the north end of Brentwood Lane (**Figure 1**)
- Bear Canyon Arroyo Bridge (West Entrance), adjacent to the east side of Jefferson Street, north of Balloon Park Road (**Figure 2**)
- Bear Canyon Arroyo Trail, adjacent to the west side of Jefferson Street, north of Balloon Park Road (**Figure 3**)
- Gail Ryba Bridge (East Entrance), which crosses over the Rio Grande, adjacent to the Bosque Trail (**Figure 4**)

It should be noted that during the development of this assessment, changes were made to the bollard installations at the Bear Canyon Arroyo Bridge (East Entrance) and at the Bear Canyon Arroyo Bridge (West Entrance). For the purpose of this assessment, only the new installations were documented and evaluated as compared to AASHTO design guidelines. **Table 1** summarizes the relevant design criteria for the each of the installations and indicates if the criteria meet or exceed AASHTO criteria.

**Table 1: Multi-Use Trail Design Criteria Summary**

		Bear Canyon Arroyo Bridge (East Entrance)	Bear Canyon Arroyo Bridge (West Entrance)	Bear Canyon Arroyo Trail (West Jefferson)	Gail Ryba Bridge (East Entrance)
Visibility	Retroreflectorized Material	✗	✗	✓	✓
	Appropriate Object Markers	✗	✗	-	-
Permit Passage	ADA Accessible (3 feet)	✓	✓	✗	✓
	Clear Width (5 feet)	✓	✓	✗	✓
Adequate Sight Distance		✓	✓	✓	✓
Bollard Dimensions	Height (40 inches)	✗	✗	✗	✗
	Width (4 inches)	✓	✓	✓	✓
Striped Envelope		✗	✗	✗	✓
Flexible Delineators		✗	✗	✗	✗
Placement	One Bollard in Center	✓	✓	✗	✗
	Odd Number of Posts with 6 foot Spacing	-	-	✗	✗
Setback(30 foot)minimum		✗	✓	✗	-
Flush Mounting Hardware		✓	✓	✗	✓
Removable Bollards for Access		✓	✓	✓	✓

✓ - Criteria Met

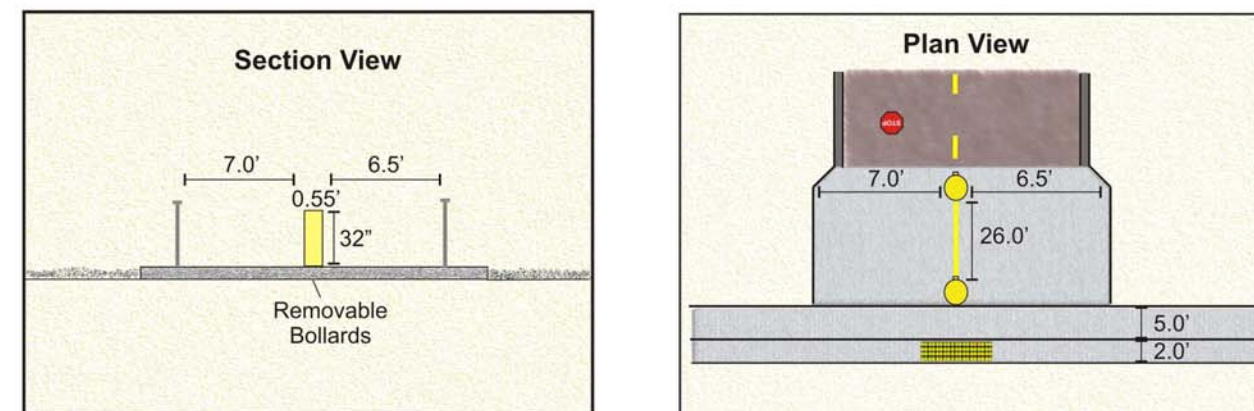
✗ - Criteria Not Met



Figure 1: Bear Canyon Arroyo (East Entrance)



### Existing Installation



### Proposed Installation

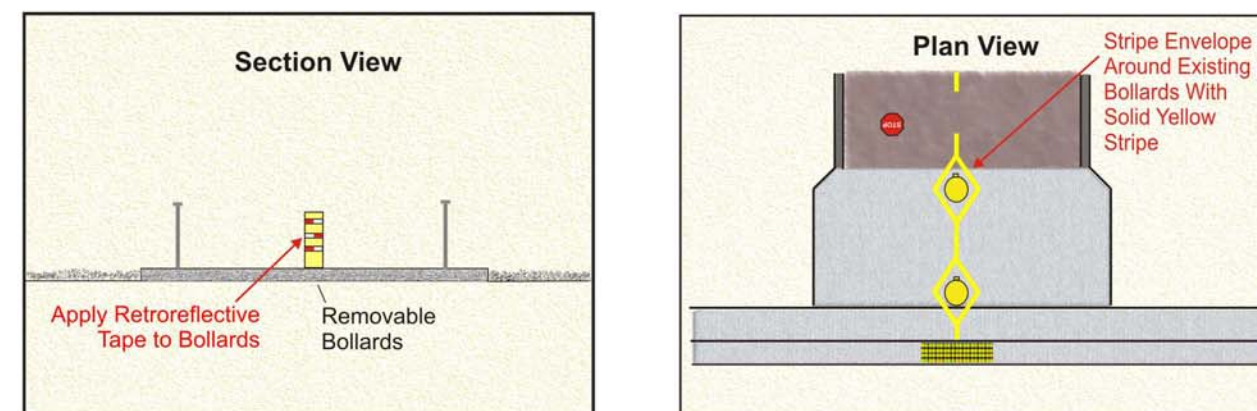




Figure 2: Bear Canyon Arroyo (West Entrance)

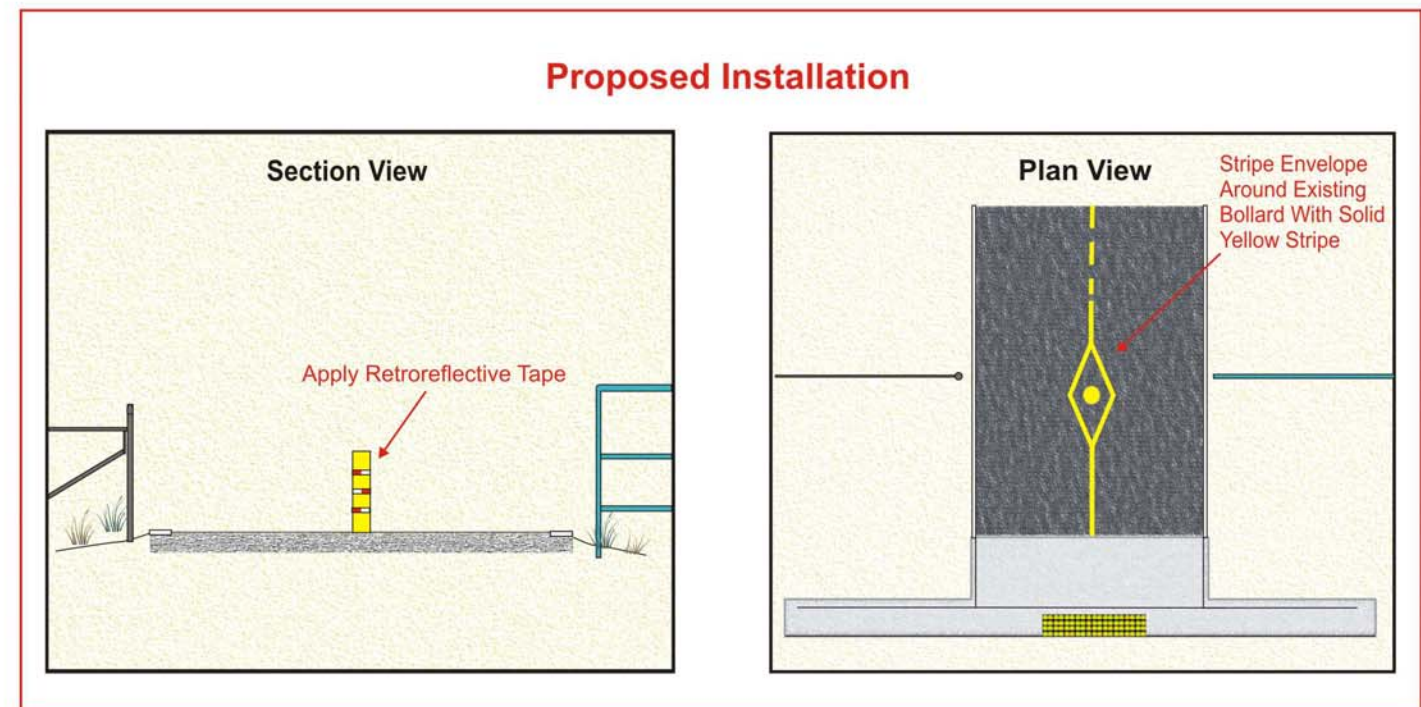
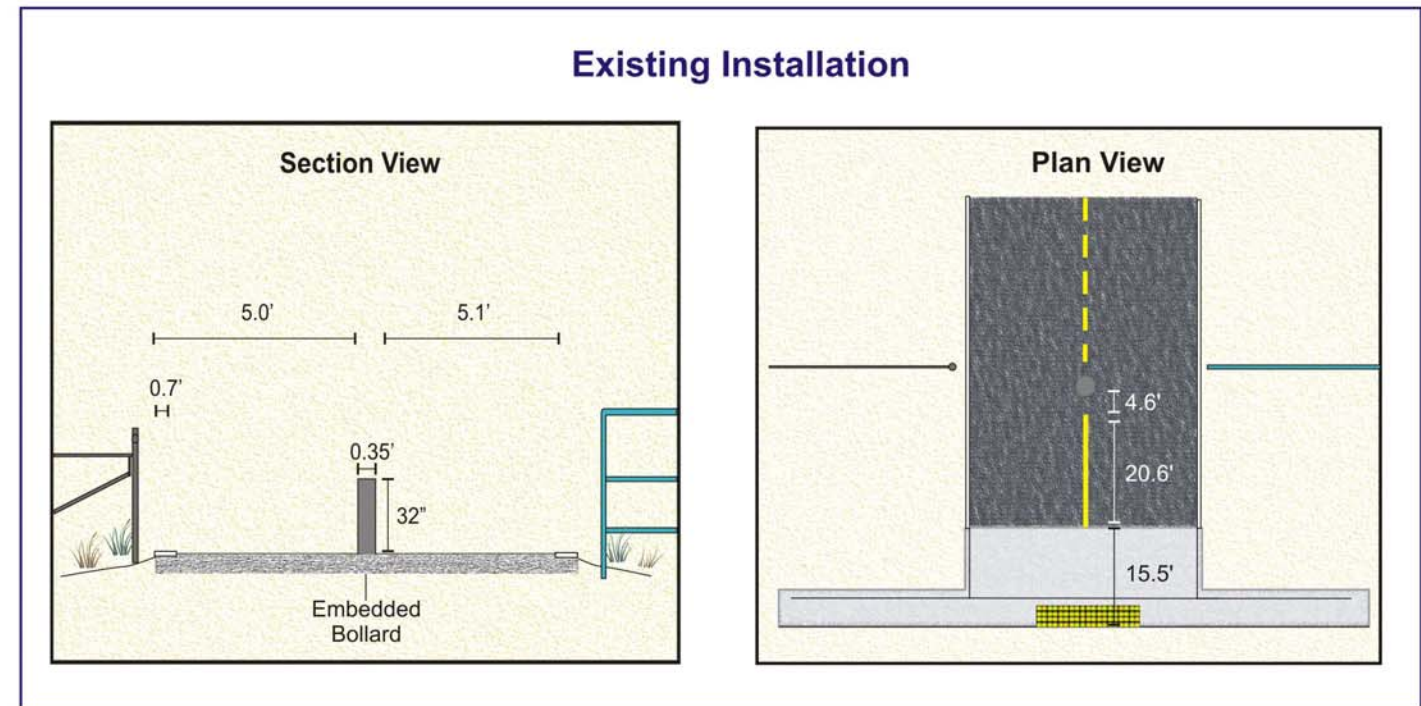






Figure 3: Bear Canyon Arroyo Trail

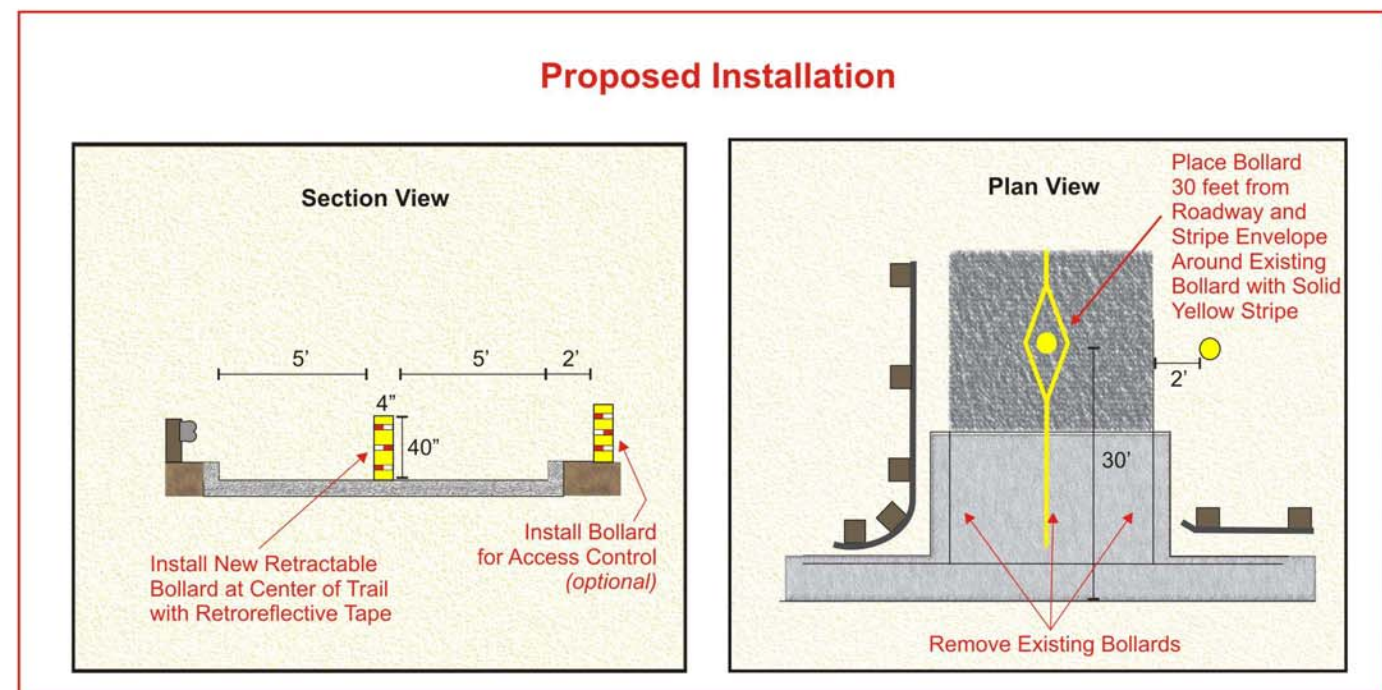
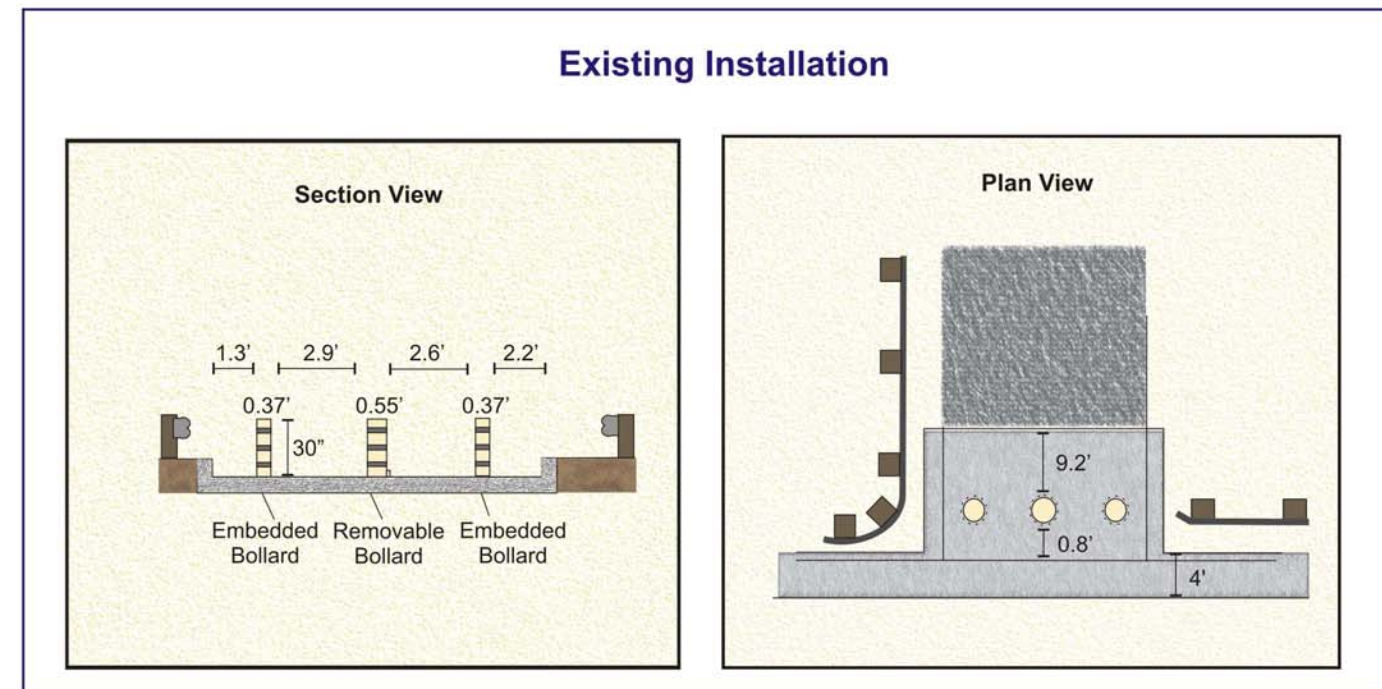
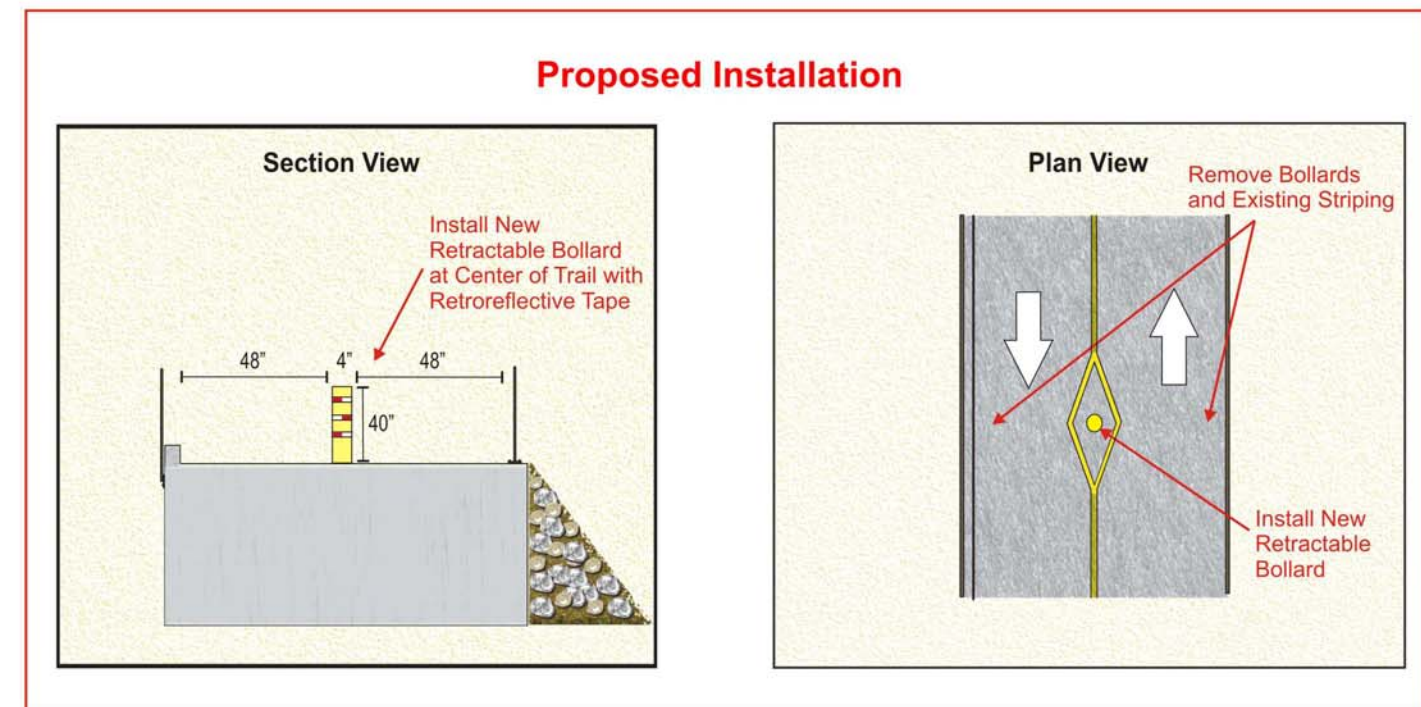
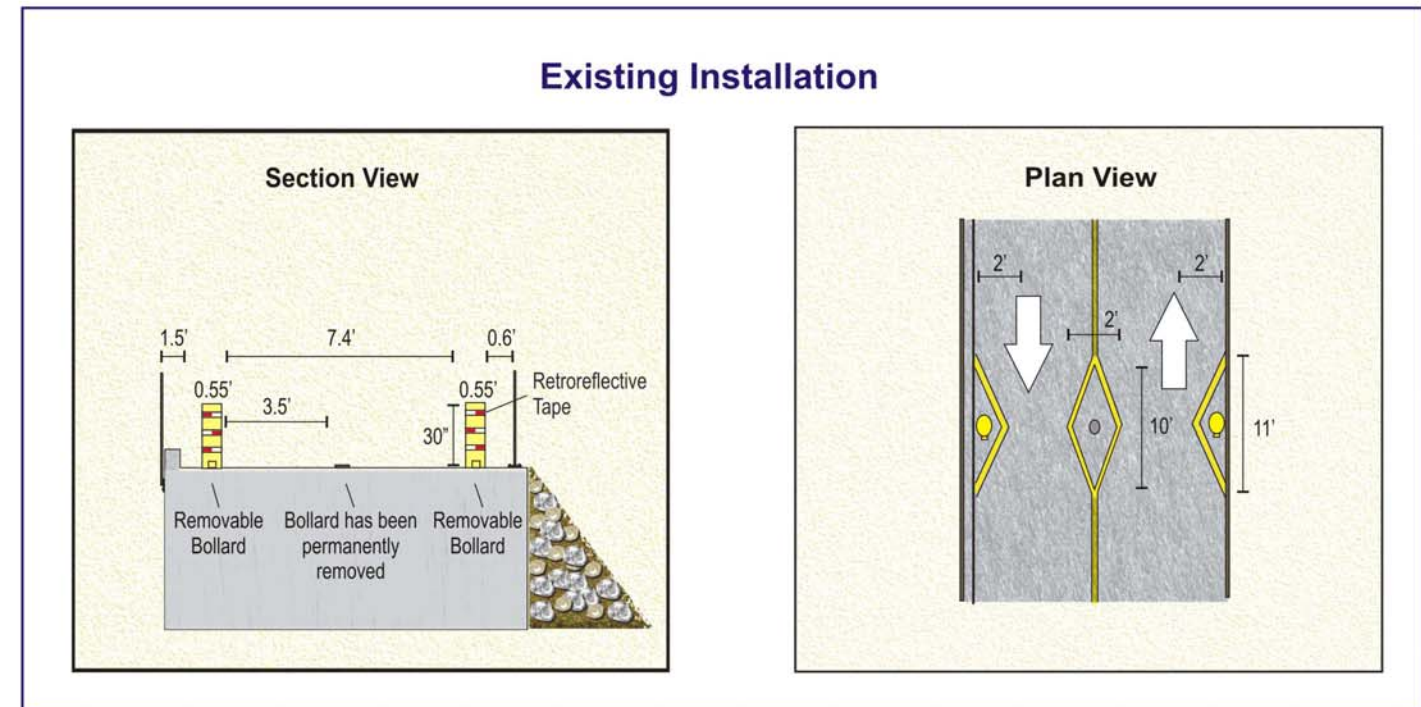
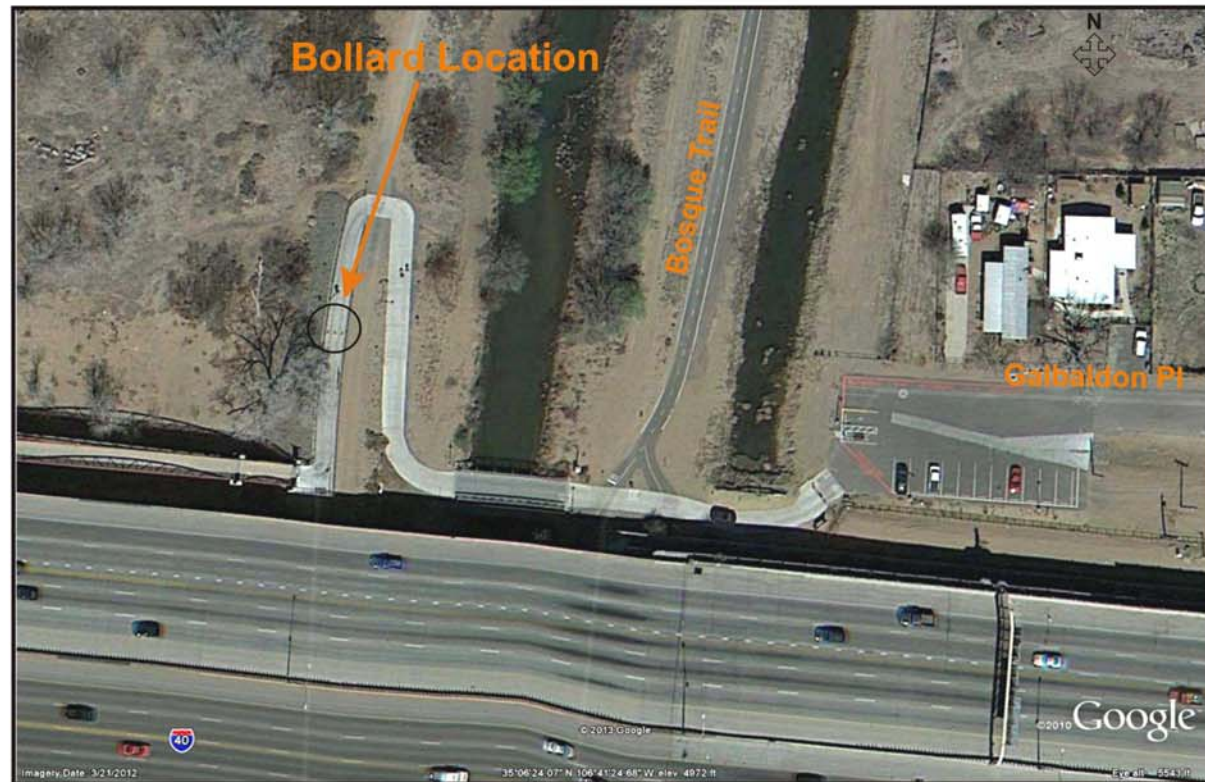




Figure 4: Gail Ryba Bridge







The evaluation findings show that the bollard installations reviewed are not in compliance with AASHTO and MUTCD recommendations. In conjunction with a cursory review of additional locations, the following issues are consistent throughout the City of Albuquerque:

- Bollards are rarely retroreflectorized or emblazoned with retroreflectorized tape.
- Bollards are not 40 inches in height and were always much shorter.
- Striping is inconsistent between sites and even within a given trail segment.
- Bollard placement (number and spacing) is inconsistent throughout the City.
- Bollards are often placed too close to the roadway, frequently at the back of the entrance ramp to the trail.

The proposed modifications to the existing installations maintain existing equipment and enhance conditions with retroreflective paint and tape and optimization of bollard placement. Retractable, 40-inch bollards were not specified unless a new bollard was required.

#### 4. NATIONAL GUIDANCE

Since national standards governing the placement of bollards on multi-use trails do not currently exist, different agencies, committees and coalitions have developed best practices or suggested guidance for bollard types, placement, and locations. The common thought is that bollards should be utilized to increase trail safety by providing separation between motorized vehicles and trail users. A trail entry point should provide safe access to users and keep unauthorized vehicles out.

The following are a summary of best practices and guidelines, including a summary of recommended revisions to the MUTCD (California), Section 9C-101, for the implementation of bollards on multi-use trails developed in California by the City of Sacramento and California Department of Transportation:

- The first steps to control entry at a trail approach should be to install signs that state vehicle entry is prohibited, and to design the entry to discourage vehicle access.
- Barriers should be placed out of the path of travel. Place bollards on the centerline or lane line of a trail.
- Bollards should be permanently reflective for nighttime visibility and coated with a bright color for daytime visibility.
- Bollards should be placed so that there is sufficient sight distance to allow users to adjust speed.
- Bollards should permit passage, without dismounting, for adult tricycles, bicycles towing trailers, and tandem bicycles. Five feet of clearance should be measured face to face and not center to center.
  - When placed off the pavement, bollards should be placed a minimum of 2-feet from the edge of the trail or outer lane line.
- Fold down and sleeve bollards should not be used on trails because when they are not in use, they are a hazard to users.
  - If removable bollards are used, the foundation shall be flush with the surface.
- Use special advance warning signs or pavement markings where sight distance is a concern.
- Develop a separate access for authorized vehicles when warranted on shared facilities.



These guidelines are largely consistent with other agency practices and recommendations. A summary of agency and organization guidelines and standard drawings are included in [Appendix B](#).

## 5. SUMMARY AND RECOMMENDATIONS

The Albuquerque metropolitan area has more than 175 miles of paved multi-use trails. While bollards are commonly used on these facilities, the City of Albuquerque does not have established standards defining the appropriate installation of bollards on a multi-use trail and the applications are inconsistent. AASHTO together with the MUTCD, has developed recommended criteria for the installation of bollards on multi-use trails, which are not design standards, but have been established as best practices.

The goal of bollards should be to balance the need to discourage unauthorized motorized vehicle access on a trail with the need to provide the trail users a facility without unnecessary obstructions. Therefore, developing a series of best practices for the installation of bollards on the City of Albuquerque trail system is critical for the purpose of not only providing consistency within the trail system, but also establishing a level of expectancy with the trail users that will result in less confusion and improvements in accessibility for all types of users.

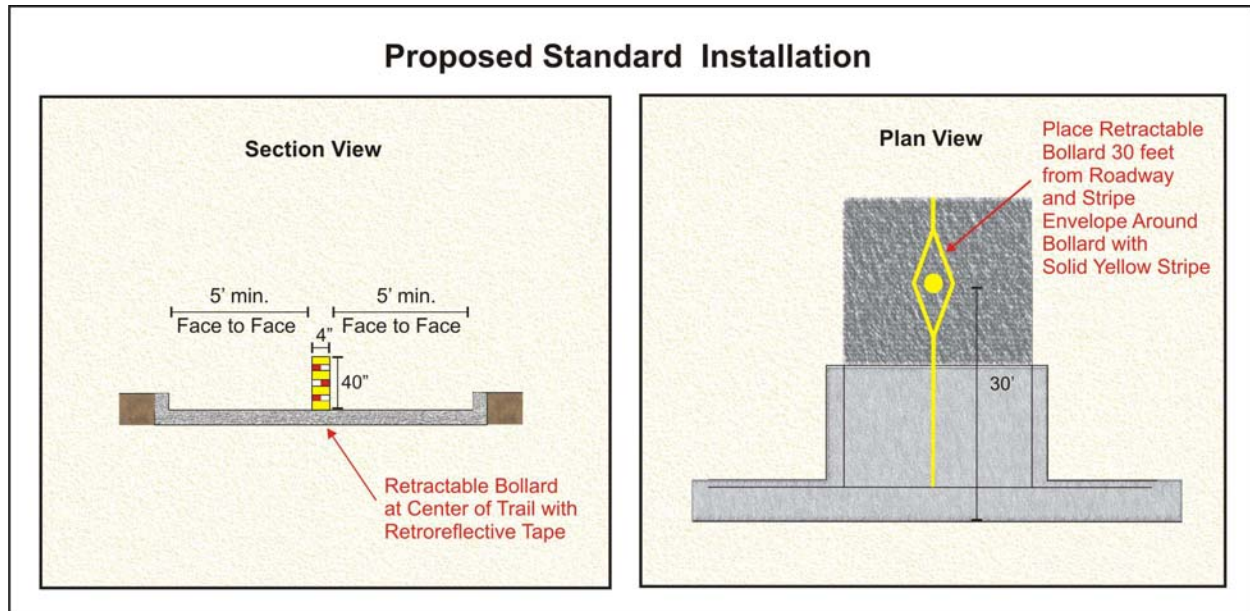
Following is a list of best practices that should be consistent when installing bollards at any trail facility by the City of Albuquerque ([Figure 5](#)):

- Only apply bollards if the need is demonstrated, or if the trail entrance cannot be designed or modified to discourage use by unauthorized motor vehicles. Bollard use should be reserved for problematic locations.
  - Bollards should not be installed on trail facilities that parallel a roadway unless it is identified as a problematic location.
  - Bollards should be considered along obscured facilities that are not readily visible and at other problematic locations.
- All bollards should be made of a retroreflectorized material or have retroreflectorized tape affixed to them for easy visibility from both approaches to the bollard.
  - Where possible, retractable bollards should be implemented. Appropriate usage ensures that the bollards will remain in place and cannot be removed from the site and when retracted, the bollard will not be a hazard.
- Bollards should be 40 inches in height (minimum) and 4 inches (minimum) in diameter to ensure visibility.
- In most instances, a single bollard should be placed at the centerline of the trail, where adequate sight distance is available.
  - Two bollards should not be used as they typically will be placed in the center of the travel way for each travel direction.
  - If it is necessary to restrict access adjacent to the multi-use trail to restrict motorized traffic, bollards should be placed a minimum of 2-feet off of the edge of the trail.
- A minimum clear width of 5 feet should be provided between the edge of trail and the bollard.



- A striped envelope (4 inch, retroreflective yellow) should be striped around the bollard to provide guidance to divert users around the bollard. A striped yellow centerline should also be provided along the trail for 25-feet on either side of the bollard.
- Bollards should be set back 30-feet from the roadway to separate the conflict point for users between the roadway and bollards, or as far back as is practical based on site conditions.

**Figure 5: Recommended Practice for Bollard Placement**

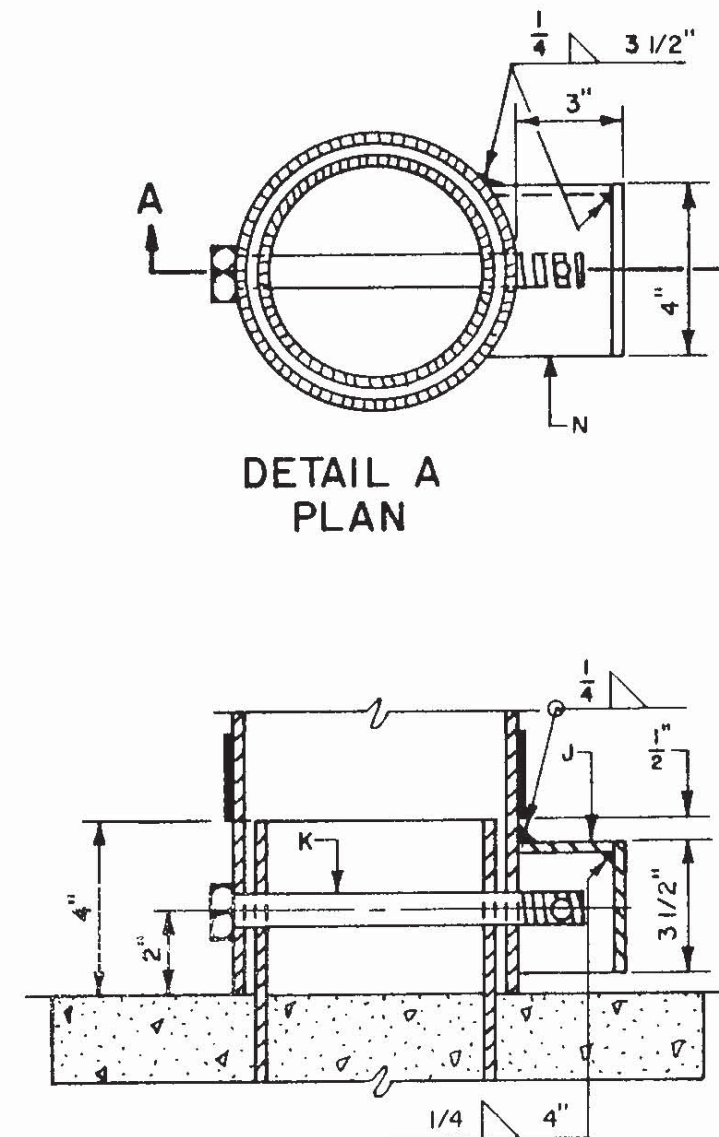
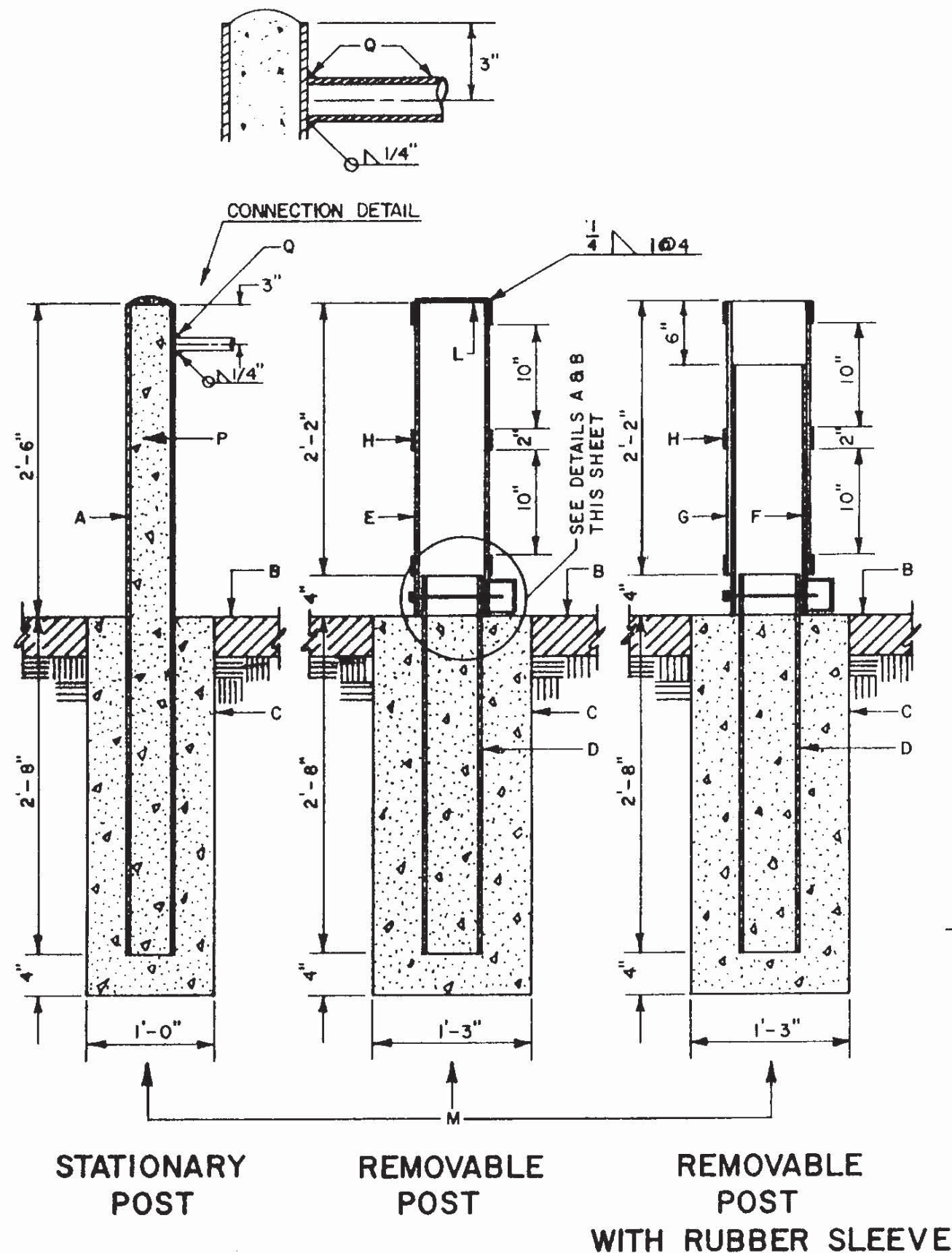


These recommendations are consistent with a draft policy being developed by the Greater Albuquerque Recreational Trails Committee (GARTC) ([Appendix C](#)) and current practices of the City of Albuquerque Parks and Recreation Department (coordination meeting held July 22, 2013). Standards to ensure consistent application should be implemented by all departments of the City of Albuquerque. Every trail and entrance are unique and special consideration will need to be given to each site to determine how best to place bollards, if the need for bollards is demonstrated.

## Appendices

## **Appendix A: City of Albuquerque Standard Detail**





## GENERAL NOTES:

1. FOR SLEEVE, USE GATES NO. 37 W WATER HOSE, DISCHARGE HOSE OR EQUIVALENT. I.D. 6.625" O.D. 7.29", 6 PLY WITH BLACK NEOPRENE COVER.
2. WELDS ARE TO BE GROUND SMOOTH.
3. EXPOSED STEEL AND SLEEVE TO BE PAINTED WITH AN OIL BASE ALKYD PRIMER AND AN OIL BASE ALKYD ENAMEL TOP COAT. COLOR TO BE BRIGHT YELLOW.

## CONSTRUCTION NOTES:

- A. 4" NOMINAL DIA. SCHEDULE 40 GALV. STEEL PIPE, 5'-2" TO BE FILLED W/CONC. PAINT PIPE BRIGHT YELLOW ABOVE FINISHED GRADE.
- B. PAVEMENT OR FINISHED GRADE.
- C. CONC. COLLAR, 3000 PSI AT 28 DAYS, W/SMOOTH OR BROOM FINISH WHERE PAVEMENT IS ADJACENT.
- D. 5" NOMINAL DIA. SCHEDULE 40 GALV. STEEL PIPE, 3'-0" TO BE FILLED W/CONC. TO LEVEL SHOWN.
- E. 6" NOMINAL DIA. SCHEDULE 40 GALV. STEEL PIPE, 2'-8" PAINT PIPE BRIGHT YELLOW (REMOVABLE).
- F. 6" NOMINAL DIA. SCHEDULE 40 GALV. STEEL PIPE, 2'-0" (REMOVABLE).
- G. SLEEVE, 2'-2" PAINT BRIGHT YELLOW, SEE NOTE NO. 1 THIS SHEET.
- H. 2" WIDE REFLECTIVE TAPE, AS APPROVED BY ENGINEER, LOCATE AROUND PIPE AS SHOWN.
- J. 1/4" THICK STEEL SAFETY GUARD BOX. OPEN ON ONE SIDE & BOTTOM. WELD ALL SEAMS.
- K. 3/4" X 8" GALV. HEX. BOLT W/A 3/8" DIA. HOLE FOR PADLOCK. (PADLOCK FURNISHED BY CITY).
- L. 1/4" X 6 5/8" DIA. GALV. STEEL PLATE COVER, WELDED TO PIPE.
- M. PLACEMENT OF POSTS SHOULD BE WELL AWAY FROM TRAFFIC ON MAJOR ROADWAYS & PREFERABLY AT THE R.O.W. LINE. TRAFFIC ENGINEERING SHOULD BE CONSULTED ON LOCATION WHEN NEAR TRAFFIC.
- N. ALIGN WITH TRAFFIC FLOW IN EASEMENTS OR BIKEPATH TO AVOID TRIPPING HAZARDS WITH BOX.
- P. PIPES ARE NOT TO BE FILLED W/CONC. WHEN PIPES ARE LOCATED WITHIN 15' OF STREET FLOWLINE. USE WELDED STEEL CAP INSTEAD.
- Q. WHERE CONNECTING BOLLARDS ARE SPECIFIED, WELD 1-1/4" NOM., SCH. 40 PIPE BETWEEN BOLLARDS.

CITY OF ALBUQUERQUE

**DRAINAGE**  
**STATIONARY & REMOVABLE**  
**POST DETAILS**  
**DWG. 2250**

AUG. 1986

## Appendix B: Agency Bollard Standard Details

# American Association of State Highway Transportation Officials (AASHTO)

---

## **Guide to Bicycle Facilities, 4<sup>th</sup> Edition**

### Shared Use Path Chicanes

Chicanes (i.e., horizontal curvature) can be designed to reduce path users' approach speeds at intersections where users must stop or yield, or where sight distance is limited. Care should be taken to end chicanes far enough in advance of the intersection to allow the user to focus on the curves in the pathway first, then the approaching intersection (rather than both at the same time). A solid centerline stripe is recommended at chicanes to reduce the instances of bicyclists "cutting the corners" of the curves. Chicanes should not be designed for speeds less than 8 mph (13 km/h).

### Restricting Motor Vehicle Traffic

Unauthorized use of pathways by motor vehicles occurs occasionally. In general, this is a greater issue on pathways that extend through independent rights-of-way that are not visible from adjacent roads and properties. Per the MUTCD (7), the R5-3, "No Motor Vehicles" sign can be used to reinforce the rules.

The routine use of bollards and other similar barriers to restrict motor vehicle traffic is not recommended. Bollards should not be used unless there is a documented history of unauthorized intrusion by motor vehicles. Barriers such as bollards, fences, or other similar devices create permanent obstacles to path users. Bollards on pathways may be struck by bicyclists and other path users and can cause serious injury. Approaching riders may shield even a conspicuous bollard from a following rider's view until a point where the rider lacks sufficient time to react.

Furthermore, physical barriers are often ineffective at the job they were intended for—keeping out motorized traffic. People who are determined to use the path illegally will often find a way around the physical barrier, damaging path structures and adjacent vegetation. Barrier features can also slow access for emergency responders. A three-step approach may be used to prevent unauthorized motor vehicle entry to shared use paths:

1. Post signs identifying the entry as a shared use path and regulatory signs prohibiting motor vehicle entry. For example, the R5-3, "No Motor Vehicles" sign may be placed near where roads and shared use paths cross and at other path entry locations.
2. Design the path entry location so that it does not look like a vehicle access and make intentional access by unauthorized users difficult. A preferred method of restricting entry of motor vehicles is to split the entry way into two sections separated by low landscaping. Each section should be half the nominal path width; for example a 10-ft (3-m) path should be split into two 5-ft (1.5-m) sections. Emergency vehicles can still enter, if needed, by straddling the landscaping. Alternatively, it may be more appropriate to designate emergency vehicle access via protected access drives that can be secured. The approach to the split should be delineated with solid line pavement markings to guide the path user around the split.
3. Assess whether signing and path entry design prevents or reduces unauthorized traffic to tolerable levels. If motor vehicle incursion is isolated to a specific location, consider targeted surveillance and enforcement. If unauthorized use persists, assess whether the problems posed by unauthorized vehicle entry exceed the risks and access issues posed by barriers. Where the need for bollards or other vertical barriers in the pathway can be justified despite their risks and access issues, measures should be taken to make them as compatible as possible with the needs of bicyclists and other path users (6):



- Bollards should be marked with a retroreflectorized material on both sides or with appropriate object markers, per Section 9B.26 of the MUTCD (7).
- Bollards should permit passage, without dismounting, for adult tricycles, bicycles towing trailers, and tandem bicycles. Bollards should not restrict access for people with disabilities. All users legally permitted to use the facility should be accommodated; failure to do so increases the likelihood that pathway users will collide with the bollards.
- Bollard placement should provide adequate sight distance to allow users to adjust their speed to avoid hitting them.
- Bollards should be a minimum height of 40 in. (1.0 m) and minimum diameter of 4 in. (100 mm). Some jurisdictions have used taller bollards that can be seen above users in order to reinforce their visibility.
- Striping an envelope around the approach to the post is recommended as shown in Figure 5-21 to guide path users around the object.
- One strategy is to use flexible delineators, which may reduce unauthorized vehicle access without causing the injuries that are common with rigid bollards.
- Bollards should only be installed in locations where vehicles cannot easily bypass the bollard. Use of one bollard in the center of the path is preferred. When more than one post is used, an odd number of posts spaced at 6 ft (1.8 m) is desirable. However, two posts are not recommended, as they direct opposing path users towards the middle, creating conflict and the possibility of a head-on collision. Wider spacing can allow entry to motor vehicles, while narrower spacing might prevent entry by adult tricycles, wheelchair users, and bicycles with trailers.
- Bollards should be set back from the roadway edge a minimum of 30 ft (10 m). Bollards set back from the intersection allow path users to navigate around the bollard before approaching the roadway.
- Hardware installed in the ground to hold a bollard or post should be flush with the surface to avoid creating an additional obstacle.
- Lockable, removable (or reclining) bollards allow entrance by authorized vehicles.

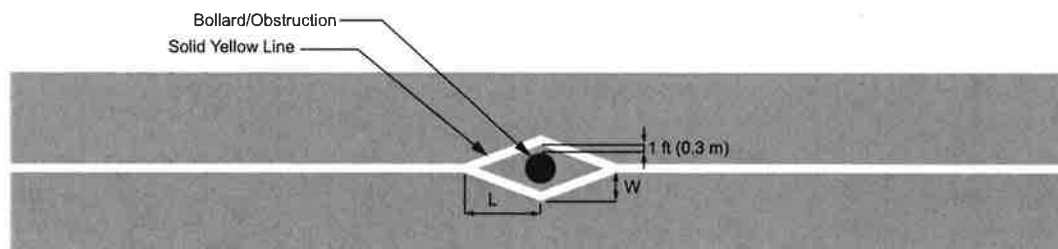


Figure 5-21. Bollard Approach Markings



### Edgeline Striping

Edgeline striping may be considered for use on shared use paths under several situations. The use of 4 to 6 in. (100 to 150 mm) wide, white edge lines may be beneficial on shared use paths where nighttime use is not prohibited. The use of white edge lines may be considered at approaches to intersections to alert path users of changing conditions, and if the pathway design includes a separate area for pedestrian travel, it should be separated from the bicycle traveled way by a normal white line. Refer to Section 5.2.1 for more information on segregation of traffic.

### Approach Markings for Obstructions

Obstructions should not be located in the clear width of a path. Where an obstruction on the traveled portion occurs (for example, in situations where bollards are used), channelizing lines of appropriate color (yellow for centerline, otherwise white) should be used to guide path users around it. An example of a centerline treatment is given in Figure 5-21. For obstructions located on the edge of the path, an obstruction marking (see Figure 4-30) should be used. Approach markings should be tapered from the approach end of the obstruction to a point at least 1 ft (0.3 m) from the obstruction (See Table 4-1 to determine taper length).

### Pavement Markings to Supplement Intersection Control

Stop and yield lines may be used to indicate the point at which a path user should stop or yield at a traffic control device. Design of stop and yield lines is described in Chapter 3B of the MUTCD (7). Stop or yield lines may be placed across the entire width of the path. If used, the stop or yield line should be placed a minimum of 2 ft (0.6 m) behind the nearest sidewalk or edge of roadway if a sidewalk is not present.

### Supplemental Pavement Markings on Approaches

Advance pavement markings may be used on roadway or path approaches at crossings where the crossing is unexpected or where there is a history of crashes, conflicts, or complaints. If a supplemental word marking (such as "HWY XING") is used, its leading edge should be located at or near the point where the approaching user passes the intersection warning sign or advance traffic control warning sign that the marking supplements. Additional markings may be placed closer to the crossing if needed, but should be at least 50 ft (15 m) from the crossing. Advance pavement markings may be placed across the entire width of the path or within the approach lane. Pavement markings should not replace the appropriate signs. Pavement markings may be words or symbols as described in Part 3 of the MUTCD (7).

### Advance Stop or Yield Lines

Advance stop lines or yield lines may be used on multilane roadway approaches to a path crossing where the path is given priority. The applicability of either a stop line or a yield line is governed by state law. Figure 5-23 shows an application of advanced yield lines, and Figures 5-18 and 5-20 illustrate the use of both applications where the path is given priority. Advance stop and yield lines reduce the likelihood for a multiple-threat crash between the path user and a vehicle. The advance stop or yield line provides a clearer field of vision between path users who are crossing the road and approaching vehicles in both lanes. These treatments have shown promising results (16), (17).

## **Design Details (web)**



Home > Engineer Bicycle Facilities > Shared Use Paths > **Design Details**

# Design Details

## Width and clearance

Ten feet or 3 meters is the recommended minimum width for a two-way, shared use path on a separate right of way. Other critical measurements include:

- 8 feet (2.4m) may be used where bicycle traffic is expected to be low at all times, pedestrian use is only occasional, sightlines are good, passing opportunities are provided, and maintenance vehicles will not destroy the edge of the trail.
- 12 feet is recommended where substantial use by bicycles, joggers, skaters, and pedestrians is expected, and where grades are steep (see later).
- 2 feet of graded area should be maintained adjacent to both sides of the path.
- 3 feet of clear distance should be maintained between the edge of the trail and trees, poles, walls, fences, guardrails or other lateral obstructions.
- 8 feet of vertical clearance to obstructions should be maintained; rising to 10 feet in tunnels and where maintenance and emergency vehicles must operate.

## Design speed, horizontal and vertical alignment

The design of a shared use path should take into account the likely speed of users, the ability of bicyclists to turn corners without falling over, skidding, or hitting their pedal on the ground as they lean over. The [AASHTO Guide for the Design of Bicycle Facilities](#) has a number of tables, and equations to help designers meet the tolerances of a bicyclist based on the following key numbers:

- 20 miles per hour (30 km/h ) is the minimum design speed to use in designing a trail
- 30 miles per hour (50 km/h) should be used where downgrades exceed 4 percent
- 15 miles per hour (25 km/h) should be used on unpaved paths where bicyclists tend to ride more slowly (and cannot stop as fast without skidding or sliding on a loose surface)

The result is a series of recommended desirable minimum curve radii for corners that should be safe for bicyclists.

## Lighting

Shared use paths in urban and suburban areas often serve travel needs both day and night, for example commuter routes and trails accessing college campuses. Fixed source lighting improves visibility along trails and at intersections, and is critical for lighting tunnels and underpasses. The AASHTO guide recommends using average maintained illumination levels of between 5 and 22 lux, and the Florida DOT recommends 25 as the average initial lux. Also, there needs to be a periodic monitoring of the lights and a maintenance program.

## Preventing motor vehicle use of paths

In some locations, shared use paths may be mistaken for motor vehicle roads or may suffer from illegal or unauthorized motorized use. At intersections with roadways, therefore, the path should be clearly signed, marked and/or designed to discourage or prevent unauthorized motorized access. A variety of alternatives exist to achieve this:

- a. bollards. Probably the most common device is the bollard, often lockable, collapsible or removable to allow for authorized access to the trail. Great care should be used in locating the bollard to ensure that they are visible, allow trail users through, and are not placed so as to channel both directions of trail users towards the same point in the trail. If bollards are to be used, they should be retro-reflective, brightly colored, and have pavement markings around them. On a ten foot trail, one bollard should be used in the center of the trail. If more than one bollard is necessary, there should be five feet between them.
- b. splitting the trail in two. Many manuals suggest the option of splitting a ten foot trail into two five foot approaches to an intersection, with a planted triangle between them. This may increase maintenance costs.
- c. medians. The Florida DOT manual notes that "curbing with tight radii leading up to the roadway can often prevent motorists from attempting to enter the path. Medians should be set back from the intersection 25 feet (8m) to allow bicyclists to exit the roadway fully before navigating the reduced pathway width."

## Signing and marking

While fewer signs may be needed on paths compared to on-street facilities, adequate signing and marking are essential on shared use paths, just as they are on streets and highways. Trail users need to know about potential conflicts, regulatory information, destinations, cross streets etc. The Manual on Uniform Traffic Control Devices (MUTCD) provides some minimum traffic control measures that should be applied and a range of options.

**Striping:** a yellow center line stripe is recommended where trails are busy, where sight distances are restricted, and on some unlit trails where night time riding is expected. The line should be dashed when adequate passing sight distance exists, and solid when no passing is recommended.

A solid white line may be used to separate pedestrians from bicycle/blading traffic, and solid white edge stripes may also be useful where nighttime riding is expected.

**Warning signs:** a range of warning signs can be used to inform users that recommended design criteria cannot be met, for example curve radii or grades or where unexpected conditions may exist.

**Informational signs:** trail users need to know where they are, where they are going, what cross streets they are crossing, how far destinations are away, and what services are available close to the trail. The MUTCD has information on the appropriate signs to use in these instances. Although not in the MUTCD, many trails post signs encouraging uniform trail user etiquette (e.g. "give audible signal when passing" or which type of trail user has the right-of-way).

**Intersection markings and signs:** pavement marking and signs at intersections should channel users to cross at clearly defined locations and indicate that crossing traffic is to be expected. Similar devices to those used on roadways (STOP and YIELD signs, stop bars etc) should be used on trails as appropriate.

The AASHTO Guide notes that in addition to traditional warning signs in advance of intersections, motorists can be alerted to the presence of a trail crossing through flashing warning lights, zebra-style or colored pavement crosswalks, raised crosswalks, signals, and neck-downs/curb-bulbs. However, some devices such as flashing warning lights are expensive to install and maintain and should be kept to a minimum.

This site is funded by the [U.S. Department of Transportation Federal Highway Administration](#) and maintained by the [Pedestrian and Bicycle Information Center](#) within the [University of North Carolina Highway Safety Research Center](#). Please read our [Usage Guidelines](#)





## **Caltrans Highway Design Manual Chapter 1000**

## CHAPTER 1000 BICYCLE TRANSPORTATION DESIGN

### Topic 1001 - Introduction

#### Index 1001.1 – Bicycle Transportation

The needs of non motorized transportation are an essential part of all highway projects. Mobility for all travel modes is recognized as an integral element of the transportation system. Therefore, the guidance provided in this manual complies with Deputy Directive 64-Revision #1: Complete Streets: Integrating the Transportation System. See AASHTO, “Guide For The Development Of Bicycle Facilities”.

Design guidance for Class I bikeways (bike paths), Class III bikeways (bike routes) and Trails are provided in this chapter. Design guidance that addresses the mobility needs of bicyclists on all roads as well as on Class II bikeways (bike lanes) is distributed throughout this manual where appropriate.

See Topic 116 for guidance regarding bikes on freeways.

#### 1001.2 Streets and Highways Code References

The Streets and Highways Code Section 890.4 defines a “bikeway” as a facility that is provided primarily for bicycle travel. Following are other related definitions, found in Chapter 8 Nonmotorized Transportation, from the Streets and Highway Code:

- (a) Section 887 -- Definition of nonmotorized facility.
- (b) Section 887.6 -- Agreements with local agencies to construct and maintain nonmotorized facilities.
- (c) Section 887.8 -- Payment for construction and maintenance of nonmotorized facilities approximately paralleling State highways.
- (d) Section 888 -- Severance of existing major non motorized route by freeway construction.

- (e) Section 888.2 -- Incorporation of non motorized facilities in the design of freeways.
- (f) Section 888.4 -- Requires Caltrans to budget not less than \$360,000 annually for non motorized facilities used in conjunction with the State highway system.
- (g) Section 890.4 -- Class I, II, and III bikeway definitions.
- (h) Section 890.6 - 890.8 -- Caltrans and local agencies to develop design criteria and symbols for signs, markers, and traffic control devices for bikeways and roadways where bicycle travel is permitted.
- (i) Section 891 -- Local agencies must comply with design criteria and uniform symbols.
- (j) Section 892 -- Use of abandoned right-of-way as a nonmotorized facility.

#### 1001.3 Vehicle Code References

- (a) Section 21200 -- Bicyclist's rights and responsibilities for traveling on highways.
- (b) Section 21202 -- Bicyclist's position on roadways when traveling slower than the normal traffic speed.
- (c) Section 21206 -- Allows local agencies to regulate operation of bicycles on pedestrian or bicycle facilities.
- (d) Section 21207 -- Allows local agencies to establish bike lanes on non-State highways.
- (e) Section 21207.5 -- Prohibits motorized bicycles on bike paths or bike lanes.
- (f) Section 21208 -- Specifies permitted movements by bicyclists from bike lanes.
- (g) Section 21209 -- Specifies permitted movements by vehicles in bike lanes.
- (h) Section 21210 -- Prohibits bicycle parking on sidewalks unless pedestrians have an adequate path.
- (i) Section 21211 -- Prohibits impeding or obstruction of bicyclists on bike paths.
- (j) Section 21400 -- Adopt rules and regulations for signs, markings, and traffic control devices for roadways user.

with adequate stopping sight distances. **The minimum stopping sight distance based on design speed shall be 125 feet for 20 miles per hour, 175 feet for 25 miles per hour and 230 feet for 30 miles per hour.** The distance required to bring a bicycle to a full controlled stop is a function of the bicyclist's perception and brake reaction time, the initial speed of the bicycle, the coefficient of friction between the tires and the pavement, and the braking ability of the bicycle.

Stopping sight distance is measured from a bicyclist's eyes, which are assumed to be 4 ½ feet above the pavement surface to an object ½-foot high on the pavement surface.

(11) *Length of Crest Vertical Curves.* Figure 1003.1C indicates the minimum lengths of crest vertical curves for varying design speeds.

(12) *Lateral Clearance on Horizontal Curves.* Figure 1003.1D indicates the minimum clearances to line of sight obstructions, *m*, for horizontal curves. It is assumed that the bicyclist's eyes are 4 ½ feet above the pavement surface to an object ½-foot high on the pavement surface.

Bicyclists frequently ride abreast of each other on bicycle paths, and on narrow bicycle paths, bicyclists have a tendency to ride near the middle of the path. For these reasons, lateral clearances on horizontal curves should be calculated based on the sum of the stopping sight distances for bicyclists traveling in opposite directions around the curve. Where this is not possible or feasible, the following or combination thereof should be provided: (a) the path through the curve should be widened to a minimum paved width of 14 feet; and (b) a yellow center line curve warning sign and advisory speed limit signs should be installed.

(13) *Grades.* Bike path grades must meet DIB 82. The maximum grade rate recommended for bike paths should be 5 percent. Sustained grades should be limited to 2 percent.

(14) *Pavement Structure.* The pavement material and structure of a bike path should be designed in the same manner as a highway, with a recommendation from the District Materials Branch. It is important to construct and

maintain a smooth, well drained, all-weather riding surface with skid resistant qualities, free of vegetation growth. Principal loads will normally be from maintenance and emergency vehicles.

(15) *Drainage.* For proper drainage, the surface of a bike path should have a minimum cross slope of 1 percent to reduce ponding and maximum of 2 percent Per DIB 82. Sloping of the traveled way in one direction usually simplifies longitudinal drainage design and surface construction, and accordingly is the preferred practice. However, the unpaved shoulders slope away from the path at 2 percent. Ordinarily, surface drainage from the path will be adequately dissipated as it flows down the gently sloping shoulder. However, when a bike path is constructed on the side of a hill, a drainage ditch of suitable dimensions may be necessary on the uphill side to intercept the hillside drainage. Where necessary, catch basins with drains should be provided to carry intercepted water across the path. Such ditches should be designed in such a way that no undue obstacle is presented to bicyclists.

Culverts or bridges are necessary where a bike path crosses a drainage channel.

(16) *Entry Control for Bicycle Paths.* Obstacle posts and gates are fixed objects and placement within the bicycle path traveled way can cause them to be an obstruction to bicyclists. Obstacles such as posts or gates may be considered only when other measures have failed to stop unauthorized motor vehicle entry. Also, these obstacles may be considered only where safety and other issues posed by actual unauthorized vehicle entry are more serious than the safety and access issues posed to bicyclists, pedestrians and other authorized path users by the obstacles.

The 3-step approach to prevent unauthorized vehicle entry is:

- (a) Post signs identifying the entry as a bicycle path with regulatory signs prohibiting motor vehicle entry where roads and bicycle paths cross and at other path entry points.
- (b) Design the path entry so it does not look like a vehicle access and makes intentional

access by unauthorized users more difficult. Dividing a path into two one-way paths prior to the intersection, separated by low plantings or other features not conducive to motor vehicle use, can discourage motorist from entering and reduce driver error.

- (c) Assess whether signing and path entry design prevents or minimizes unauthorized entry to tolerable levels. If there are documented issues caused by unauthorized motor vehicle entry, and other methods have proven ineffective, assess whether the issues posed by unauthorized vehicle entry exceed the crash risks and access issues posed by obstacles.

If the decision is made to add bollards, plantings or similar obstacles, they should be:

- Yielding to minimize injury to bicyclists and pedestrians who may strike them.
  - Removable or moveable (such as gates) for emergency and maintenance access must leave a flush surface when removed.
  - Reflectorized for nighttime visibility and painted, coated, or manufactured of material in a bright color to enhanced daytime visibility.
  - Illuminated when necessary.
  - Spaced to leave a minimum of 5 feet of clearance of paved area between obstacles (measured from face of obstacle to face of adjacent obstacle). Symmetrically about the center line of the path.
  - Positioned so an even number of bicycle travel lanes are created, with a minimum of two paths. Odd number of openings increases the risk of head-on collisions if traffic in both directions tries to use the same opening.
  - Placed so additional, non-centerline/lane line posts are located a minimum of 2 feet from the edge of pavement.
  - Delineated as shown in California MUTCD Figure 9C-2.
- Provide special advance warning signs or painted pavement markings if sight distance is limited.
  - Placed 10 to 30 feet back from an intersection, and 5 to 10 feet from a bridge, so bicyclists approach the obstacle straight-on and maintenance vehicles can pull off the road.
  - Placed beyond the clear zone on the crossing highway, otherwise breakaway.

When physical obstacles are needed to control unauthorized vehicle access, a single non-removable, flexible, post on the path centerline with a separate gate for emergency/maintenance vehicle access next to the path, is preferred. The gate should swinging away from the path,

**Fold-down obstacle posts or bollards shall not be used within the paved area of bicycle paths.** They are often left in the folded down position, which presents a crash hazard to bicyclists and pedestrians. When vehicles drive across fold-down obstacles, they can be broken from their hinges, leaving twisted and jagged obstructions that project a few inches from the path surface.

Obstacle posts or gates must not be used to force bicyclists to slow down, stop or dismount. Treatments used to reduce vehicle speeds may be used where it is desirable to reduce bicycle speeds.

For obstacle post visibility marking, and pavement markings, see the California MUTCD, Section 9C.101(CA).

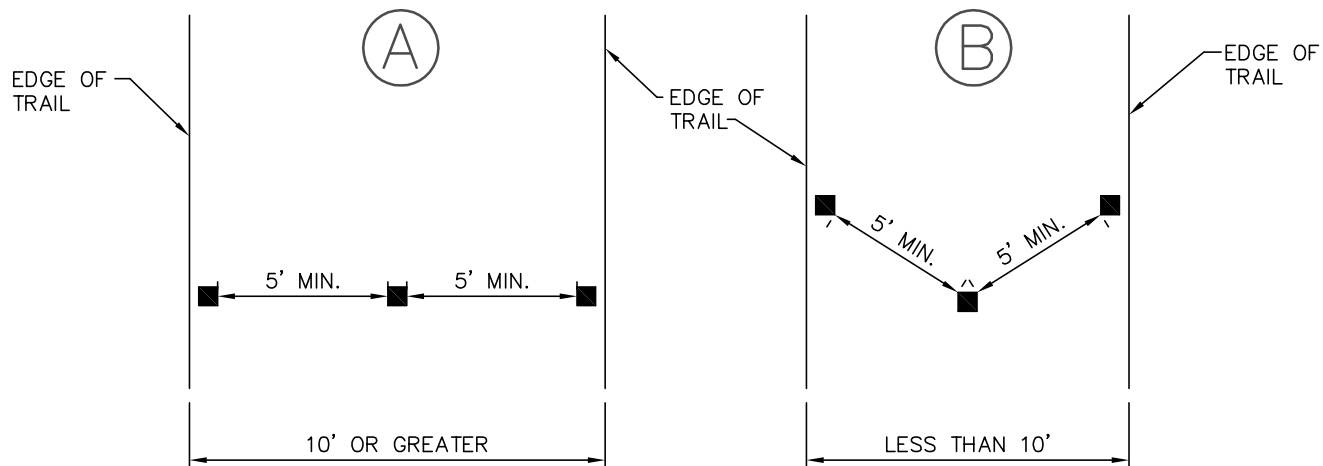
- (17) *Lighting.* Fixed-source lighting raises awareness of conflicts along paths and at intersections. In addition, lighting allows the bicyclist to see the bicycle path direction, surface conditions, and obstacles. Lighting for bicycle paths is important and should be considered where nighttime use is not prohibited, in sag curves (see Index 201.5), at intersections, at locations where nighttime security could be a problem, and where obstacles deter unauthorized vehicle entry to bicycle paths. See Index 1003.1(16). Daytime lighting should also be considered through underpasses or tunnels.

# City of Bellevue (WA)

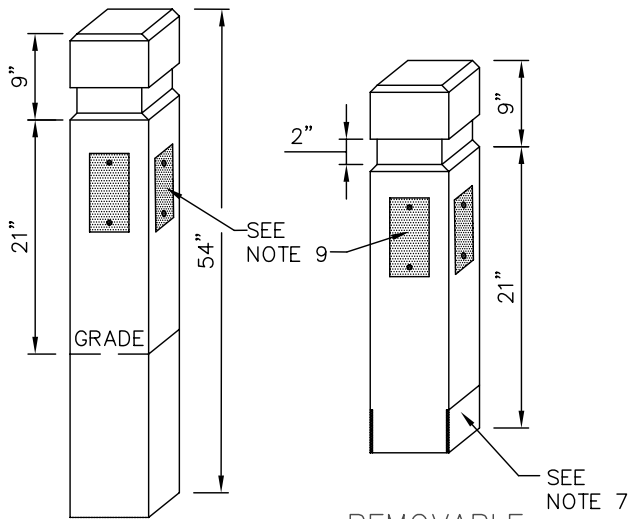
---

## **Standard Details**



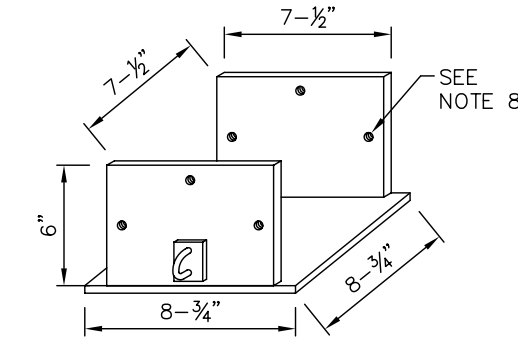


# BOLLARD PLACEMENT

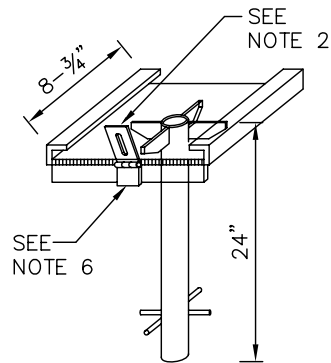


FIXED BOLLARD

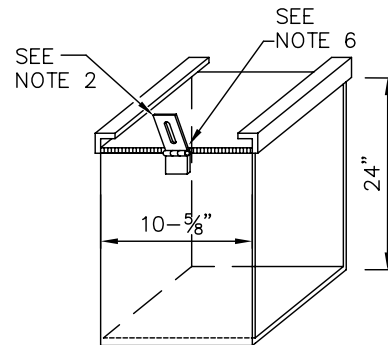
REMOVABLE BOLLARD



SLIDE-THROUGH POST BRACKET  
(FOR REMOVABLE BOLLARD)



2" SCHEDULE 40 GALVANIZE PIPE  
(FOR SUPPORT PLATE)



GALVANIZED STEEL PLATE  
(FOR SUPPORT PLATE)

ALTERNATE BRACKET SUPPORT  
(FOR REMOVABLE BOLLARD)

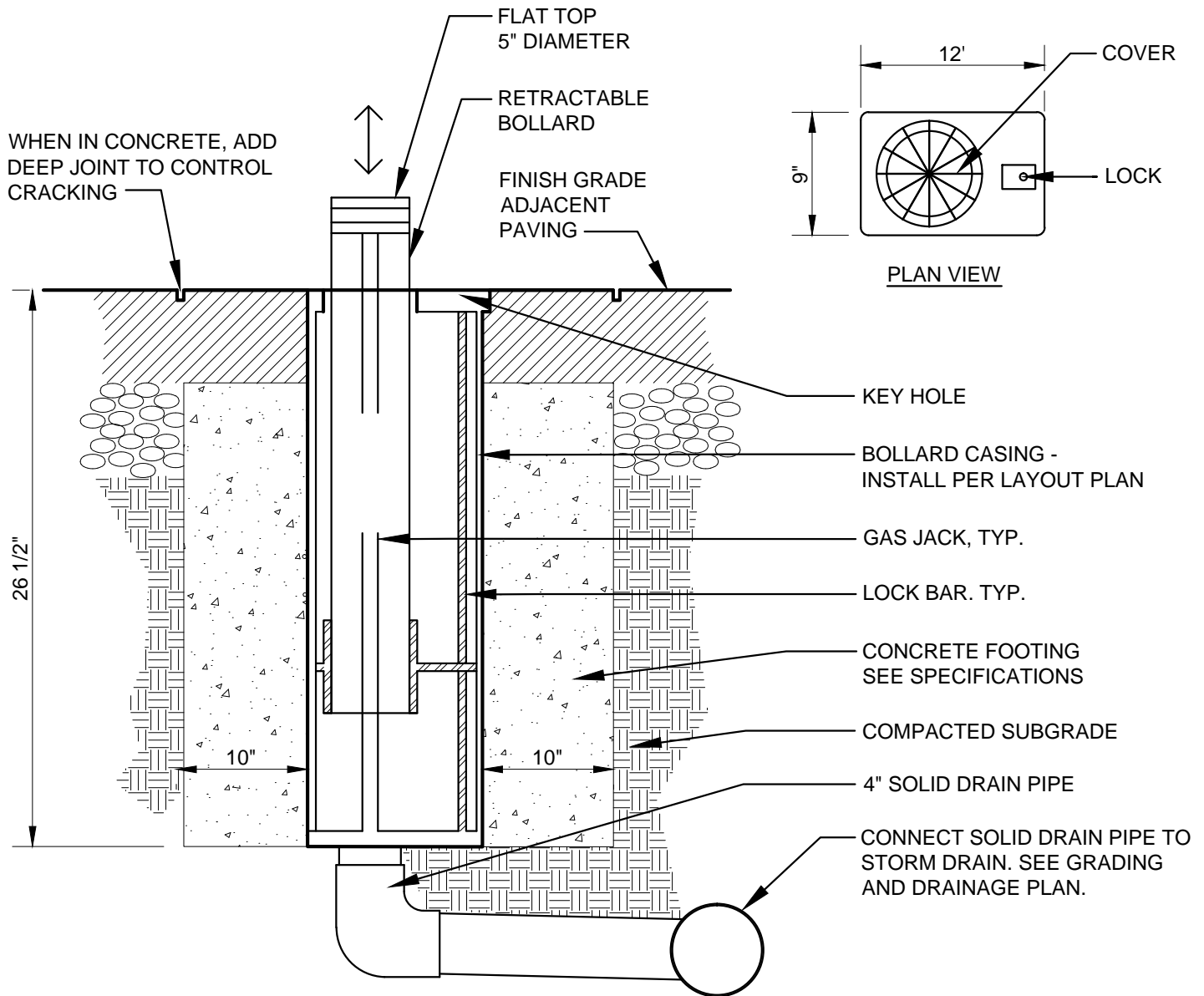
## NOTES

1. ALL PLATE MATERIALS SHALL BE  $\frac{3}{8}$ " GALVANIZED STEEL.
2. LOCKING HINGE SHALL BE HEAVY DUTY CLASP. PROVIDE ADEQUATE CLEARANCE BETWEEN PAVEMENT & CLASP TO ALLOW CLASP TO LIE FLAT WHEN OPEN.
3. BOLLARD SHALL BE MANUFACTURED FROM 8" X 8" DOUGLAS FIR #2 OR BETTER AND PRESSURE-TREATED WITH LP-22.
4. REMOVABLE BOLLARD INSTALLATION: PIPE BASES ARE SET IN A 12" DIAMETER HOLE, 32" DEEP; PLATE BASES ARE SET IN A HOLE WITH 2" OF CLEARANCE ON ALL SIDES AND BOTH ARE TO BE BACKFILLED WITH CONCRETE. LOCK HASP FACES THE STREET.
5. FIXED BOLLARD INSTALLATION: SET FIXED BOLLARDS IN A 16" DIAMETER HOLE, 24" DEEP, AND BACKFILL WITH CONCRETE.
6. USE  $\frac{1}{4}$ " WELD (BOTH SIDES) TO MOUNT CLASP.
7. FOR REMOVABLE BOLLARD BASE BRACKET INCISE  $\frac{1}{4}$ " TO FIT BOLLARD BASE.
8. FOR REMOVABLE BOLLARD SLIDE THROUGH POST BRACKET. DRILL THREE HOLES FOR  $\frac{1}{2}$ " x 1.5" MACHINE SCREWS (STAINLESS STEEL) AS SHOWN.
9. FOR BOLLARD REFLECTIVITY USE HIGH INTENSITY DELINEATOR 4" x 8" ZUMAR OR EQUIVALENT; USE WHITE COLOR ONLY. INSTALL ON ALL SIDES OF THE BOLLARD VISIBLE FROM APPROACHING BICYCLIST. FASTEN WITH STAINLESS STEEL LAG SCREWS.
10. DELINEATORS SHOULD BE ATTACHED TO ALL BOLLARDS THAT ARE LOCATED WITHIN THE CITY OF BELLEVUE BICYCLE SYSTEM (PER THE BELLEVUE PEDESTRIAN AND BICYCLE TRANSPORTATION PLAN, 1999) OR AS SPECIFIED BY THE ENGINEER.

# City of Fremont (CA)

---

## **Retractable Bollard Standard Detail**





ACCEPTABLE MANUFACTURER, OR APPROVED EQUAL:

URBACO  
CHATEAUNEUF SEMI-AUTOMATIC RETRACTABLE BOLLARD  
MODEL #9240, 26" HEIGHT ABOVE GROUND LEVEL  
PHONE #: (888) 987-2220

NOTES:

1. COLOR: BLACK; SEE SPECIFICATIONS
2. SUBMIT COLOR SAMPLE TO CITY LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
3. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
4. WHERE STORM DRAIN IS NOT AVAILABLE INSTALL DRAIN SUMP WITH CITY APPROVAL. SUMP TO BE CLASS II WASHED DRAIN ROCK WRAPPED IN MIRAFI 140 FABRIC, OR APPROVED EQUAL. SEE PSD SF-4.

			CITY OF FREMONT PARK STANDARD DETAILS  RETRACTABLE BOLLARD				DATE APPROVED BY CITY COUNCIL December 13, 2011		
							RESOLUTION NO. 2011-65		
							SENIOR LANDSCAPE ARCHITECT 		
							COMMUNITY SERVICES DIRECTOR 		
NO.	REVISED	DATE							
REVISIONS									
FILE NO.		SCALE		DRAWN	CHECKED	DATE	DWG NO.		
PSD SF-2.DWG		N.T.S.		EL/TB	575 RER	05/06/2011	PSD SF-2		
							1 OF 1		

# City of Oakland (CA)

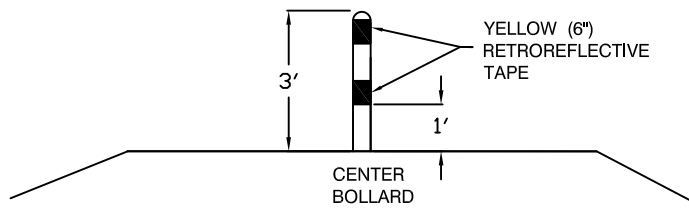
---

## **Bollard Placement and Markings Standard Drawings**



# CENTER BOLLARD

## SECTION VIEW



**NOTE:**  
MUTCD Section 9C.101(CA) Barrier Posts on Class I Bikeways

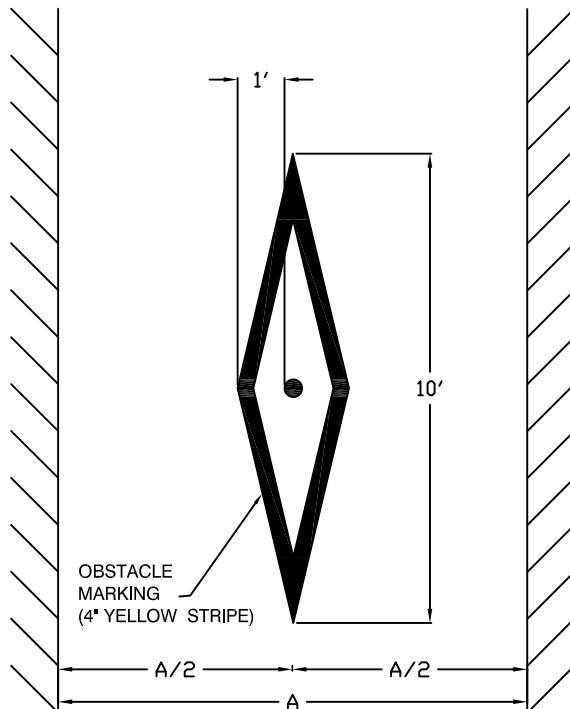
**Support:** Before a decision is made to install barrier posts, consideration needs to be given to the implementation of other remedial measures, such as Bike Path Exclusion (R44A(CA)) signs (see Section 9B.07) and/or redesigning the path entry so that motorists do not confuse it with vehicle access.

**Guidance:** Such devices should be used only where extreme problems are encountered.

### Oakland Standard:

1. Avoid the use of bollards wherever possible.
2. When deemed necessary, a center bollard shall be located in the middle of path and delineated by yellow (6") retroreflective tape at the top and midpoint of the bollard and by a yellow (4") obstacle marking stripe around the base of the bollard.
3. When additional bollards are deemed necessary, flanking bollards shall be placed in line with the center bollard and perpendicular to the direction of travel. The bollards shall be spaced with a minimum 5' clearance between bollards and all other vertical elements. Each flanking bollard shall be delineated by white (6") retroreflective tape at the top and midpoint of each bollard and by a white (4") obstacle marking stripe around the base of the bollard. See Dwg. X-2.
4. Removable bollards shall have a mount point that is flush with the travel surface.

## PLAN VIEW



CITY OF OAKLAND

DEPARTMENT OF ENGINEERING AND CONSTRUCTION



## BOLLARD PLACEMENT AND MARKINGS

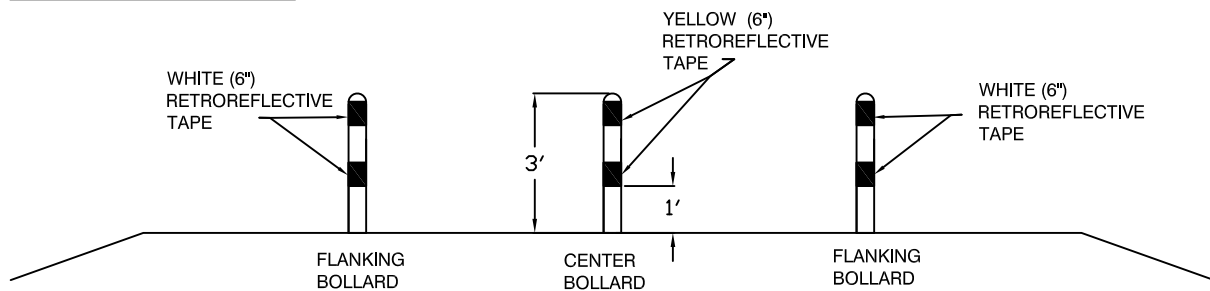
FOR BICYCLE AND PEDESTRIAN PATHS

DATE: APRIL 2009  
REV. DATE:

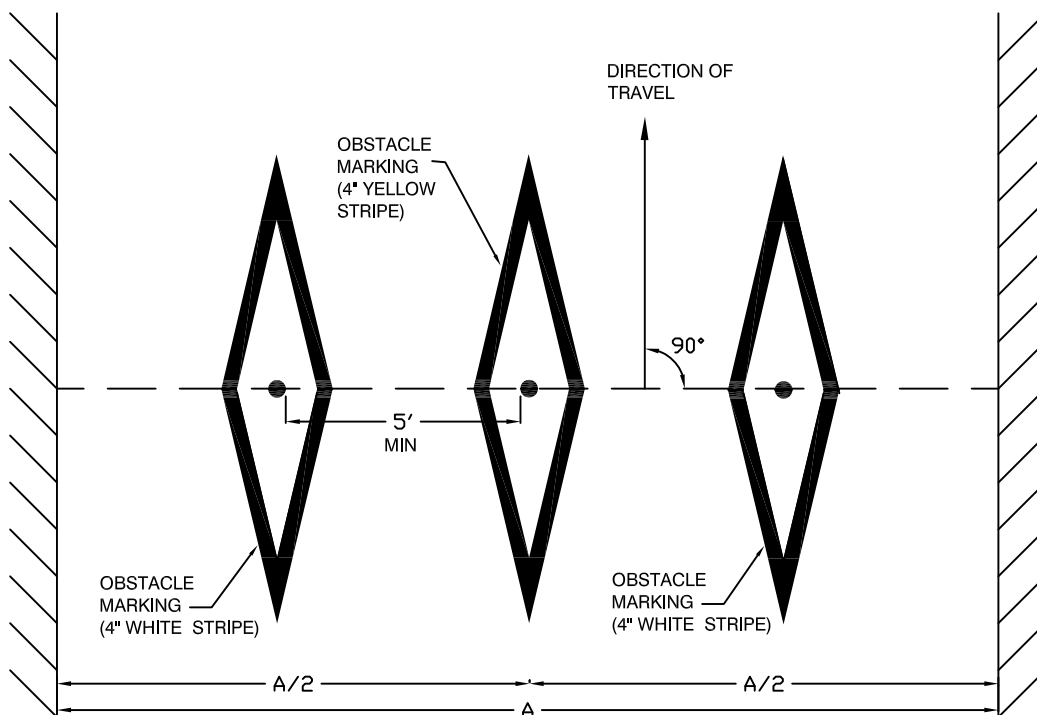
DWG.  
X-1

# CENTER BOLLARD WITH FLANKING BOLLARDS

## SECTION VIEW



## PLAN VIEW



CITY OF OAKLAND

DEPARTMENT OF ENGINEERING AND CONSTRUCTION



**BOLLARD PLACEMENT AND MARKINGS**  
FOR BICYCLE AND PEDESTRIAN PATHS

DATE: APRIL 2009  
REV. DATE: \_\_\_\_\_

DWG.  
**X-2**

# Federal Highway Administration (FHWA) – Trail Program

---

**Bollards, Gates, and other Barriers (web)**



## Recreational Trails Program

### Overview

### Legislation

### Guidance

- Accessibility Guidance
- Financial Management
- State Practices

### Funding

### Publications

### Meetings & Events

### Resources

### RTP & TE Update

## Bollards, Gates, and other Barriers

Thank you to information sources and reviewers: John Ciccarelli, [Bicycle Solutions](#); Jakob Helmboldt, [Virginia Department of Transportation](#); Richard Moeur, Arizona Department of Transportation; Mark Plotz, [National Center for Bicycling and Walking](#) and [NCBW Forum](#); John Williams, [Tracy-Williams Consulting](#); [Trails for the Twenty-First Century, 2nd Edition](#), [Rails-to-Trails Conservancy](#); Jennifer Toole, [Toole Design Group](#); Jim Lazar, Olympia (WA) [Safe Streets Campaign](#); Maggie O'Mara, Bicycle Design Reviewer, [California Department of Transportation](#), John F. Cinatl, Associate Transportation Planner - Bike Facilities, [California Department of Transportation](#).



Photo of bollards on the Delaware and Hudson Rail Trail in Pawlet VT. Trail users created a new trail to get around the bollards.

Photo by Jon Kaplan, Bicycle and Pedestrian Program Manager, Vermont Agency of Transportation.

### FHWA RTP Contact

[Christopher Douwes](#)

Trails and Enhancements Program Manager  
Federal Highway Administration  
FHWA HEPH-10 Rm E74-474  
1200 New Jersey Ave SE  
Washington DC 20590-0001  
Phone: 202-366-5013  
Fax: 202-366-3409

### State RTP Contacts

Contact your [State RTP Administrator](#) to ask about policies and funding in your State.

See also: [Federal Agency Contacts](#)

Some trail managers install bollards, gates, or other barriers to restrict unauthorized use. Trail managers should question whether bollards, gates, fences, or other barriers are needed at all. *For the purpose of the bullets below, "bollard" includes bollards, gates, fences, or any other barrier constructed or installed next to, within, or across a trail presumably to restrict unauthorized access.*

- Even "properly" installed bollards constitute a serious and potentially fatal safety hazard to unwary trail users. In addition, no bollard layout that admits bicycles, tricycles, and bicycle trailers can exclude single-track motor vehicles such as motorcycles and mopeds. For these reasons, bollards should never be a default treatment, and should not be used unless there is a documented history of intrusion by unauthorized cars, trucks, or other unauthorized vehicles.
- A landscaped median may be an appropriate method to reduce the likelihood that somebody might think the shared use path is a public street or driveway. See "What kind of [barrier](#) will keep cars off a bike path?" by [John Williams](#) and [Kathleen McLaughlin](#), originally published in *Bicycle Forum* (Issue 30, August 1992), now [NCBW Forum](#). See [Article](#).
- Bollards are often ineffective: a determined person is likely to go around or go through. This may result in additional maintenance costs for the trail, either to repair or replace the bollards, or to repair trail or landscaping damage where vehicles go around the bollards.
- Bollards are often a hazard to trail users, who can crash into them, possibly resulting in serious injury or death. Poorly installed bollards can lead to head-on collisions. Bollards are involved in "second user" crashes, where the first user hides the bollard until it is too late to avoid it, even if the first user has adequate sight distance. These crashes can produce serious or incapacitating injuries. This can happen to pedestrians as well as bicyclists or other higher speed users.
- Unjustified bollards can create liability exposure. Trail managers should consider whether or not they increase their liability if they install bollards, gates, fences, or other barriers.
- Bollards, gates, fences, or other barriers can slow access for emergency response.

If installed, bollard, gates, fences, or other barriers:

- **Must not** restrict access for people with disabilities (ABA, Rehabilitation Act, and ADA: cited above).
- Must be easily visible, especially in low light conditions. [Section 9C.03](#) of the [Manual on Uniform Traffic Control Devices](#) (MUTCD) *requires* retroreflectorization of any obstruction in the traveled way of a shared-use path. This includes posts along the edge of a path (within a path's "shoulder"). In addition, MUTCD Figure 9C-2 defines a diamond-shaped marking that should be used around bollards or other obstructions within a path.
- Should have sufficient sight distance to allow users to adjust speed. This is especially important on paths that have traffic calming features such as curves or landscaping near the bollards. Insufficient sight distance increases the likelihood that bollards will be dangerous hazards.
- Should permit passage, without dismounting, for adult tricycles, bicycles towing trailers, and tandem bicycles. All users legally permitted to use the facility should be accommodated; failure to do so increases the likelihood that the bollards will be dangerous hazards.

According to *Trails for the Twenty-First Century, 2nd Edition* (April 2001), published by the [Rails-to-Trails Conservancy](#):

*If you determine that a traffic barrier is necessary, ensure that barriers are well marked and visible to bicyclists, day or night... Bollards must be at least 3 feet tall and should be placed at least 10 feet from the intersection. This will allow trail users to cross the intersection before negotiating the barrier posts...*

*One bollard is generally sufficient to indicate that a path is not open to motorized vehicles. The post should be placed in the center of the trail tread. Where more than one post is necessary, a 5-foot spacing is used to permit passage of bicycle trailers, adult tricycles, and wheelchairs. Always use one or three bollards, never two. Two bollards, both placed in the paved portion of the trail, will channel trail users into the center of the trail, causing possible head-on collisions. Bollards should be designed to be removable or hinged to permit entrance by emergency and service vehicles... (Pages 85-86).*

#### Additional Notes:

- Spacing between bollards should permit passage of bicycle trailers and adult tricycles without dismounting, and manual and motorized wheelchairs. A "5-foot spacing" means 5-foot gaps between bollards, not a 5-foot center-to-center placement.
- Bollards should be designed to be knock-down, removable, or hinged to permit entrance by emergency and service vehicles. A knocked-down bollard must be reinstalled or removed immediately to avoid having an additional safety hazard.
- Hardware installed in the ground to hold bollard or posts must be flush with the surface to avoid having an additional safety hazard.
- Bollards, gates, fences, or other barriers outside the trail tread (on each side) may be acceptable if there is sufficient clear trail tread to avoid head-on collisions and to ensure accessibility. But the purpose of the bollards, gates, fences, or other barriers should be questioned.

#### Additional Resources:

- **Presentation:** [Bicycle Path Entry Control](#). (Ed Cox, Bicycle and Pedestrian Coordinator, City of Sacramento, CA and Maggie O'Mara, Senior Transportation Engineer, California Department of Transportation)  
This presentation discusses methods to control entry to shared use paths. It considers issues related to bollards, gates, and other barriers. It looks at examples and discusses what works well and what doesn't.  
*Disclaimer: This presentation is provided in the interest of information exchange,*



*and reflects the views of the authors. Providing this resource does not necessarily represent endorsement by the U.S. Department of Transportation.*

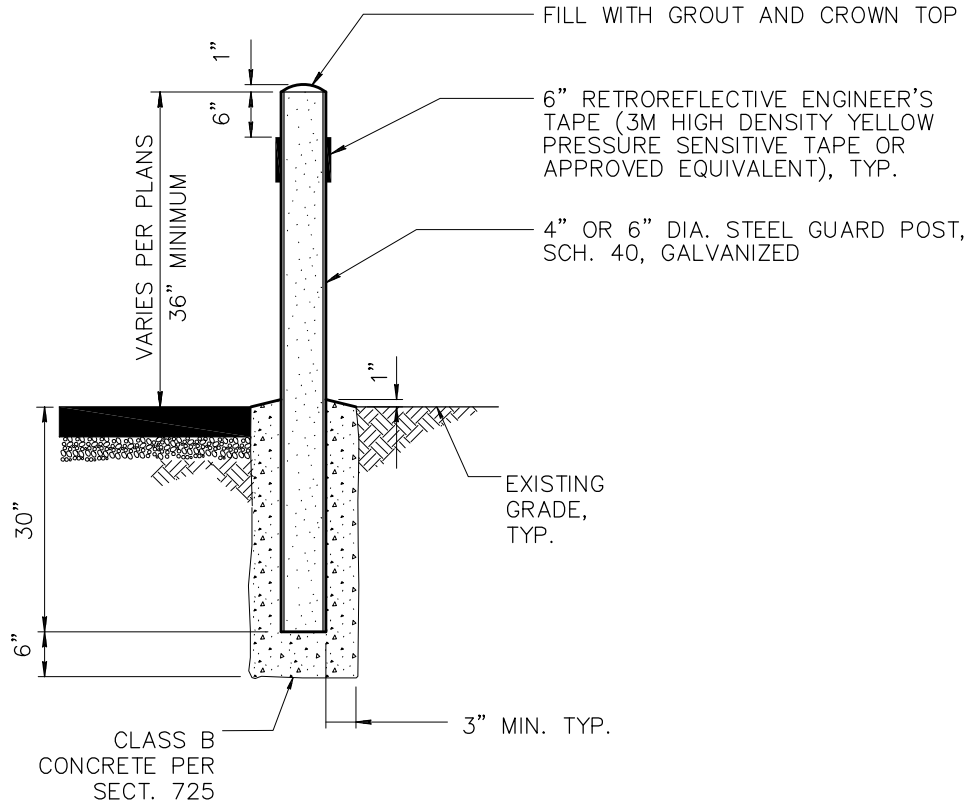
[Privacy Policy](#) | [Freedom of Information Act \(FOIA\)](#) | [Accessibility](#) | [Web Policies & Notices](#) | [No Fear Act](#) |  
[Report Waste, Fraud and Abuse](#)  
[U.S. DOT Home](#) | [USA.gov](#) | [WhiteHouse.gov](#)

[Federal Highway Administration](#) | 1200 New Jersey Avenue, SE | Washington, DC 20590 | 202-366-4000

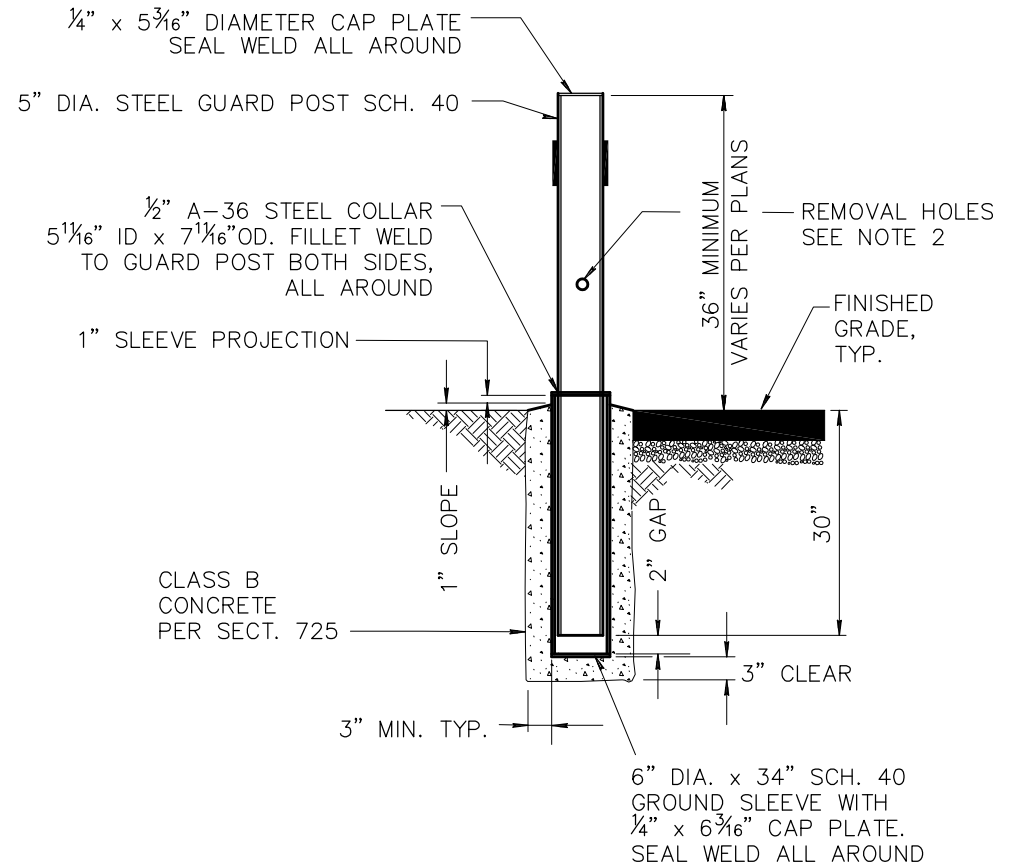
# Maricopa Association of Governments (AZ)

---

## **Standard Detail**



**TYPE 1 PERMANENT**



**TYPE 2 REMOVABLE**

**NOTES**

1. BOLLARDS SHALL HAVE A HEIGHT OF 3 FEET OR BE EQUAL TO THE HEIGHT OF THE BACK SCREEN WALL OF BIN ENCLOSURES. POSTS SHALL BE PLACED A MINIMUM OF 4" FROM THE WALL.
2. REMOVABLE POSTS SHALL HAVE 1" DIA. HOLES DRILLED THROUGH AT A DISTANCE  $\frac{1}{3}$  THE OVERALL POST LENGTH FROM TOP.
3. REMOVABLE POST – GRIND SMOOTH ALL SHARP EDGES PRIOR TO GALVANIZATION. GALVANIZE PER ASTM A54 AFTER FABRICATION.

DETAIL NO.

**140**



STANDARD DETAIL  
ENGLISH

584

**BOLLARD**

REVISED

01-01-2009

DETAIL NO.

**140**

# Minnesota Department of Transportation (Mn/DOT)

---

## **Mn/DOT Bikeway Facility Design Manual**

## Chapter 5: Shared-Use Paths

### 5-1.0 Introduction

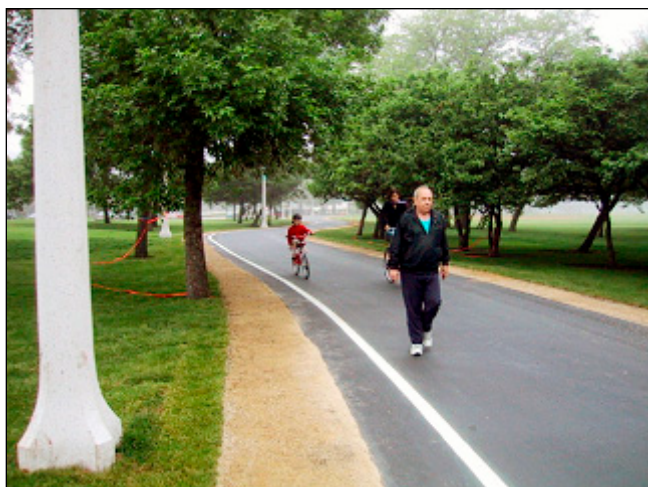
This chapter provides guidelines for design of bicycle transportation facilities that are separated from the roadway. In most cases, a path separated from the roadway may be used by bicyclists, pedestrians, roller skaters, and individuals in wheel chairs, as well as other users, and the path must be designed for shared use. This manual does not provide guidance on design or construction of recreational off-road mountain biking paths. The 2006 Department of Natural Resources, *Trail Planning Design, and Development Guidelines*, provides detailed guidance on shared use paved trails, natural surface trails, winter use trails and bikeways.

### 5-1.1 Types of Off-Roadway Bicycle Facilities

In addition to shared-use paths, several other types of off-roadway facilities may meet the needs of various users, as described below.

#### 5-1.1.1 Shared-Use Paths

Shared-use path is a term adopted by the 1999 AASHTO Guide for the Development of Bicycle Facilities in recognition that paths are seldom, if ever, used only by bicycles. As shown in Figure 5-1, a shared-use path is typically located on exclusive right-of-way, with no fixed objects in the pathway and minimal cross flow by motor vehicles. Portions of a shared-use path may be within the road right-of-way but physically separated from the roadway by a barrier or landscaping. Users typically include bicyclists, in-line skaters, wheelchair users (both non-motorized and motorized) and pedestrians, including walkers, runners, people with baby strollers or dogs with people.



**Figure 5-1:**  
**Example of typical shared-use path**

Shared-use paths are a valuable element of bicycle networks and serve both a transportation and recreation function, providing route continuity for commuting and recreation trips, access to destinations not otherwise available to bicyclists on the street and road system, and access between buildings and other discontinuities in the street network. Where shared-use paths have been added to the transportation network, they have proven to be significant



### 5-4.3.3 Curb Ramp Design and Arrangements

Use curb ramps at every intersection between a shared-use path and a roadway. If the approaching path is perpendicular to the curb, the width of the curb ramp should be at least as wide as the average width of the shared-use path. If the path is parallel to the curb, the width of the curb ramp should equal the path width or 2.7 m (**9 ft**), whichever is greater.

If a crossing or crosswalk is intended for bicyclists, the curb ramp or sloping pavement should be flush with the street. The slope of the curb ramp shall be no greater than 8.3 percent (12:1), and the slope of the curb ramp flares should be no greater than 10 percent (10:1).

Curb ramps shall include a 0.6 m (**2.0 ft**) wide strip of detectable warnings at their base to ensure that path users with vision impairments are aware of the intersection, according to the Americans with Disabilities Act Accessibility Guidelines (ADAAG). According to ADAAG and Mn/DOT Standard Plate 7036, detectable warnings should consist of raised truncated domes that meet the following specifications:

- Bottom diameter 23 mm (**0.9 in**) to 36 mm (**1.4 in**)
- Top diameter 50 to 65 percent of base diameter
- Height of 5 mm (**0.2 in**)
- Center-to-center spacing of 41 to 61 mm (**1.6 to 2.4 in**)
- A color contrasting with adjacent pavement, either light on dark or dark on light, which can help all path users to locate the curb on the opposite corner as well as provide visual cue of the truncated dome strip.

Other detectable surfaces, such as aggregate and grooves, are less detectable and less easily understood by people with vision impairments. ADAAG specifies truncated domes over rounded domes because they provide greater access to people with mobility impairments.

### 5-4.3.4 Controlling Motor Vehicle Access

A good method of controlling access onto a path by motor vehicles is to split the entry into two one-way sections of path, each 1.5 m (**5 ft**) wide, separated by low landscaping or other material. Emergency vehicles can still enter if necessary by straddling the landscaping. In most situations, this is preferable to bollards, chicanes, or other methods.



**Example of swing-down bollard to allow emergency and maintenance vehicle access**



**Too many bollards inhibit path access.**

**Figure 5-20:  
Bollards**

A bollard may also be used at the entrance to a bicycle path. See Figure 5-20. When used, a single bollard may be installed in the middle of the path to deny access to motor vehicles. Removable or hinged flexible bollards are recommended so service vehicles can use the path. When more than one bollard is used, there should always be one in the center of the path, and bollards on both edges, 1.5 m (**5 ft**) from the center bollard. This spacing will accommodate any type of bicycle or wheelchair.

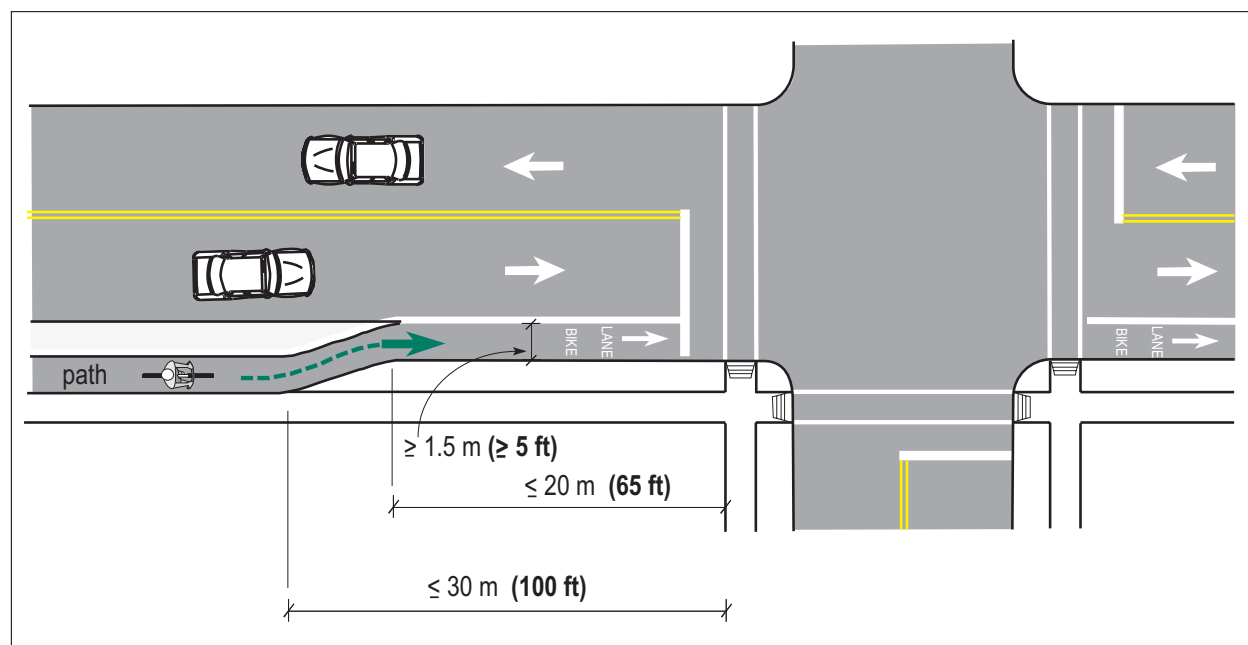
Gates and other devices that require path users to maneuver around objects are strongly discouraged. See Figure 5-21.



**Figure 5-21:**  
**Gates across a bicycle path (not recommended)**

#### 5-4.3.5 One-Way Paths and Signalized Intersections

One-way paths have the advantage of increased visibility and safety at signalized intersections. Where there are substantial numbers of right-turning motorists and through bicyclists, the one-way path intersection design shown in Figure 5-22 should be considered. End the one-way path 20 to 30 m (**65 to 100 ft**) before the intersection and let bicyclists continue on a bicycle lane in the roadway.



**Figure 5-22:**  
**One-Way Path Approaching Intersection**

# New York City Department of Parks and Recreation (NYC DPR)

---

## **NYC Bicycle Master Plan**

# Design Guidelines

Design standards are a critical component in the Network implementation process. They help ensure a consistent, safe level of service for users and protect local government agencies from liability issues in the event of injury. NYC DOT is in the process of developing Bicycle Facility Design Standards. This chapter of the *Plan* offers the following Design Guidelines to be used while the DOT Standards are being developed.

The Design Guidelines are a compilation of national guidelines and examples of existing and proposed facilities in New York City. The Guidelines are intentionally broad, providing designers with the flexibility that is often required in a locale as complex as New York City.

Most local design guidelines have been based in whole or in part on national and state standards. The national standards are listed below.

## 1. *Guide to the Development of Bicycle Facilities*, AASHTO

Released in 1981, and updated in 1991, the AASHTO Guide has become the basic reference for facility designers across the country.

## 2. *Manual on Uniform Traffic Control Devices (MUTCD)*, Federal Highway Administration

Released in 1935, and updated in 1988, the MUTCD is the national manual for streets and highways. Conformance with the manual's standards is required in nearly every state by statute (New York included).

## 3. *Guidelines for Greenways*, The Greenway Collaborative

This document provides detailed advice on the planning, design and maintenance of multi-use paths and trails.

## 4. *Design & Maintenance Manual for Multi-use Trails*, Rails-to-Trails Conservancy

This document provides information similar to that found in Guidelines for Greenways, but with an emphasis on abandoned rail corridors and canal tow paths.

## 5. *Guidelines for Establishing In-Line Skate Trails in Park and Recreation Areas*, International In-Line Skating Association

As noted on page 5, bicycle facilities are divided into the following three categories:

**Multi-use Path**, separated from motor vehicle traffic

**On-Street Bicycle Lane**, designated by lane markings and signs

**Signed Bicycle Route**, designated by signs only

## On-Street Facilities

### Bicycle Lanes - Width

AASHTO: The minimum bicycle lane width requirement is **4 feet**. However, certain edge conditions dictate additional desirable bicycle lane width, see Figures A - C.

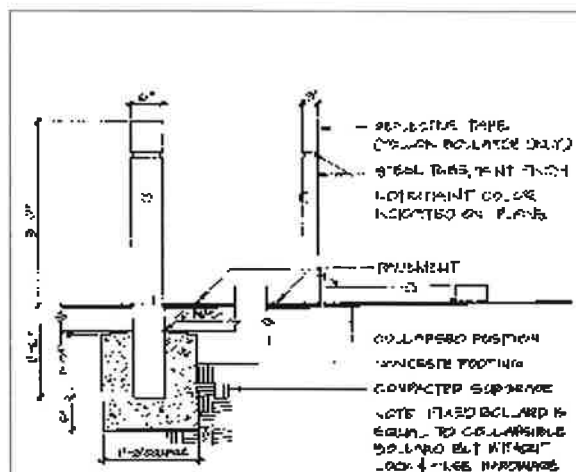
## Vehicle Access Controls

Bicycle paths often need some form of physical barrier at roadway intersections to prevent unauthorized motor vehicles from entering. Barriers are especially warranted when paths are located near sensitive natural habitats. However, access for maintenance and emergency vehicles must be provided. Listed below are some possible examples of physical barriers:

**Gates / Bollards:** Lockable gates or collapsible bollards permit entrance by authorized vehicles. AASHTO recommends that, when more than one post is used, a 5 foot spacing is desirable; wider spacing can allow motor vehicle entry, while narrower spacing might prevent safe entry by bicycles. NYC DPR has developed several guard rail and bollard details for various locations throughout the city.

Additional methods for restricting access include curbing, fence and barrier rails or changes in elevation, such as graded berms.

**Vegetation:** A path can be divided into two narrow entryways and separated by low landscaping to prevent unauthorized access. Emergency vehicles could enter by straddling the landscaping. All terrain vehicles (ATVs) can usually drive over most plantings, rendering this alternative less effective.



Detail for a collapsible steel bollard.

Source: Reconstruction of the Shore Parkway Bicycle Path, DPR



Steel barrier rail installed along the perimeter of Marine Park, Brooklyn.



Vegatated berm along Flatbush Avenue and Floyd Bennett Field, Brooklyn.

Vehicular access controls.



# Oregon Department of Transportation

---

## **Bicycle and Pedestrian Design Guide (2011)**

# **Bicycle and Pedestrian Design Guide**



**2011**

**Oregon Department of Transportation**

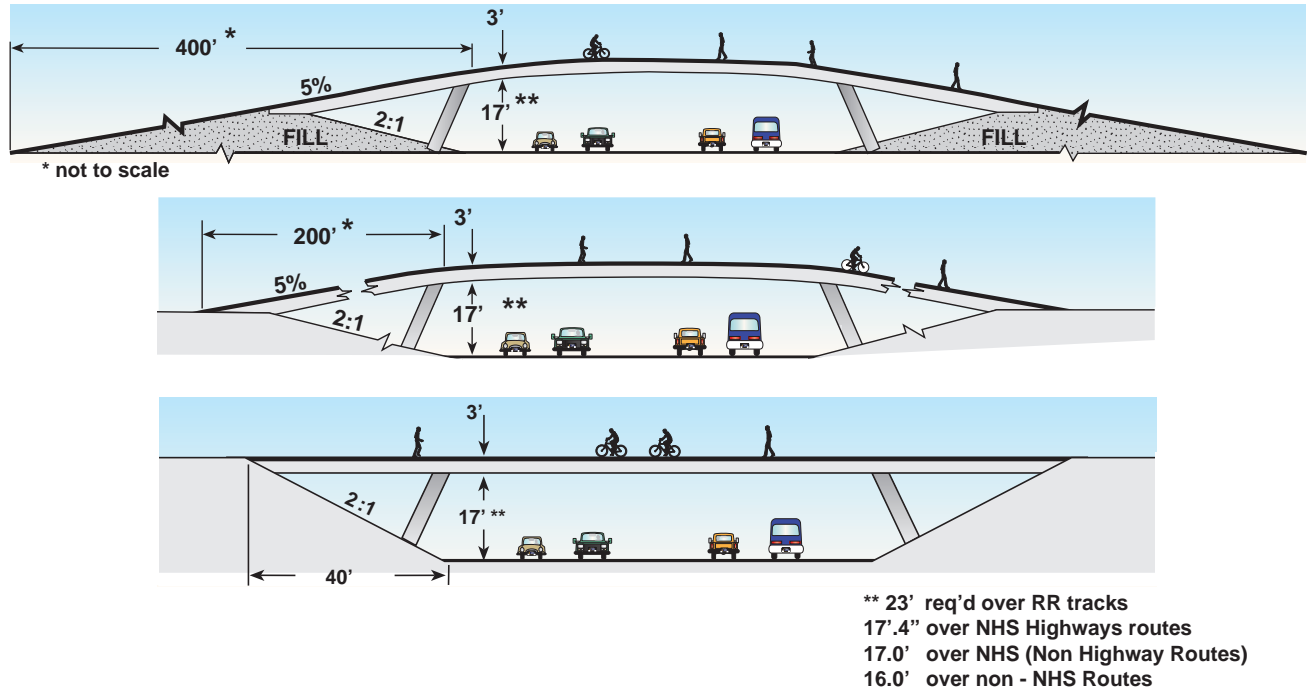


Figure 7-19: Path overcrossings, various configurations

## Preventing Motor-Vehicle Access

### Geometric Design

The most effective way to discourage motor vehicle access to paths is to make it physically difficult to do so. One method branches the path into two narrower one-way paths just before it reaches the roadway, making it difficult for a motor vehicle to gain access to the path.

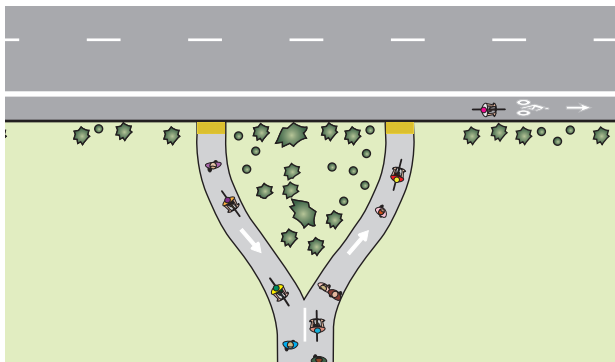


Figure 7-20: Path splits to prevent it appearing like a driveway

Another method is to create very tight curb returns to make it difficult for motorists to enter a path from the roadway.

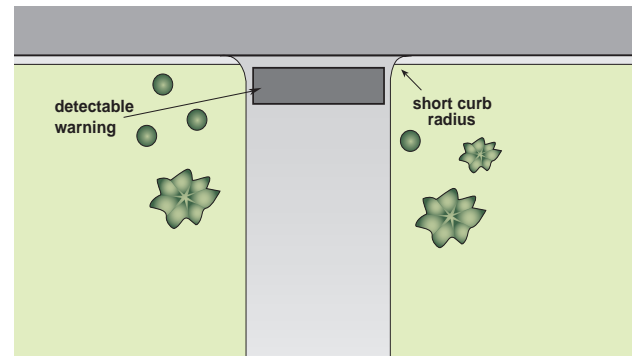


Figure 7-21: Tight curb radii prevent motor vehicle access

## Bollards

Bollards may be used to limit vehicle traffic on paths. However, they are often hard to see, cyclists may not expect them and injuries result when cyclists hit them. Overuse of bollards is a serious hazard to bicyclists and may prevent path use by trailers, wheelchairs and other legitimate path users. In a group of riders, the riders in front block the visibility of those behind, setting up cyclists in the back of the pack for a crash.

Bollards should only be used when absolutely necessary. When used, they must be spaced wide enough (min. 5 feet) for easy passage by cyclists, bicycle trailers and adult tricycles as well as wheelchair users. A single bollard is preferred, as two may channelize bicyclists to the middle opening, with a potential for collisions. They should not be placed right at the intersection, but set back 20 feet or more, so users can concentrate on motor vehicle traffic conflicts rather than on avoiding the bollard. They should be painted with bright, light colors for visibility, illuminated and/or retro-reflectorized. A striped envelope around the bollard will direct path users away from the fixed object hazard. Flexible delineators, that collapse when struck by a bicyclist, should be considered.



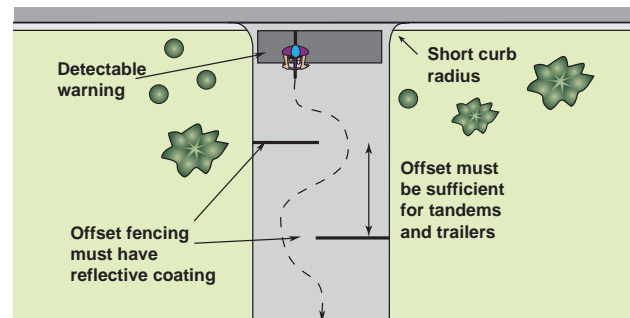
*Bollards are overused and can cause injury*



*Split path entry eliminates need for bollards*

## Offset Fencing

Placing railing or other barrier part way across a trail makes it possible for intended users to access the trail; maintenance vehicle operators are provided with keys to unlock the fences when they need access. The fences, like bollards, can be hazards to bicyclists and can restrict certain trail users from gaining access to the trail. They should be coated with retro-reflective material and well-lit.



*Figure 7-22: Offset gates prevent motor vehicle access*



*Offset fencing*

# Washington State Department of Transportation (WSDOT)

---

## **WSDOT Design Manual Chapter 1515**

### **WSDOT Standard Plans**



- [1515.01 General](#)
- [1515.02 References](#)
- [1515.03 Definitions](#)
- [1515.04 Shared-Use Path Design – The Basics](#)
- [1515.05 Intersections and Crossings Design](#)
- [1515.06 Grade Separation Structures](#)
- [1515.07 Signing, Pavement Markings, and Illumination](#)
- [1515.08 Restricted Use Controls](#)
- [1515.09 Documentation](#)

### **1515.01 General**

Shared-use paths are designed for both transportation and recreation purposes and are used by pedestrians, bicyclists, skaters, equestrians, and other users. Some common locations for shared-use paths are along rivers, streams, ocean beachfronts, canals, utility rights of way, and abandoned railroad rights of way; within college campuses; and within and between parks as well as within existing roadway corridors. A common application is to use shared-use paths to close gaps in bicycle networks. There might also be situations where such facilities can be provided as part of planned developments. Where a shared-use path is designed to parallel a roadway, provide a separation between the path and the vehicular traveled way in accordance with this chapter.

As with any roadway project, shared-use path projects need to fit into the context of a multimodal community. Exhibits are provided throughout this chapter to illustrate possible design solutions, which should be treated with appropriate flexibility as long as doing so complies with corresponding laws, regulations, standards, and guidance. Engage various discipline experts, including landscape architects, soil and pavement engineers, maintenance staff, traffic control experts, ADA and bicycle coordinators, and others. Additionally, when designing such facilities, consider way-finding.

This chapter includes technical provisions for making shared-use paths accessible to persons with disabilities. Design shared-use paths and roadway crossings in consultation with your region's ADA Coordinator, Bicycle Coordinator, and State Bicycle and Pedestrian Coordinator. For additional information on pedestrian and bicycle facilities, see Chapters [1510](#) and [1520](#), respectively.

### **1515.02 References**

#### **(1) Federal/State Laws and Codes**

Americans with Disabilities Act of 1990 (ADA)

[ADA](#) (28 CFR Part 35, as revised September 15, 2010)

[23 CFR Part 652](#), Pedestrian and Bicycle Accommodations and Projects

[49 CFR Part 27](#), Nondiscrimination on the Basis of Disability in Programs or Activities Receiving Federal Financial Assistance (Section 504 of the Rehabilitation Act of 1973 implementing regulations)

### (1) Fencing

Limited access highways often require fencing or other forms of controlling access. Shared-use paths constructed within these corridors, such as shown in [Exhibit 1515-13](#), likely require fencing. For guidance on fencing, limited access controls, and right of way, refer to Division 5 of the *Design Manual*. Evaluate the impacts of fencing on sight distances.



**Shared-Use Path in Limited Access Corridor**

*Exhibit 1515-13*

### (2) Restriction of Motor Vehicle Traffic

Shared-use paths often need some form of physical barrier at roadway intersections to prevent unauthorized motor vehicles from entering.

Bollards have been used by many path owners to prevent unauthorized vehicle access. However, bollards should not be applied indiscriminately, and there are other considerations to bollard installation.

#### (a) Landscaped Islands

A preferred method of restricting entry of motor vehicles is to split the entry way into two sections separated by low landscaping, thereby splitting a path into two channels at roadway intersections. This method essentially creates an island in the middle of the path rather than installing a bollard. Such an island could be planted with low-growing, hardy vegetation capable of withstanding the occasional authorized vehicle traveling over it. When splitting a path, employ [MUTCD](#) pavement markings and signing, such as is used for bollards and obstructions.

#### (b) Bollard Considerations

Typically, one bollard located in the center of the path is sufficient to control motor vehicle access to the path. If more than one bollard is needed, the additional bollards should be placed at the edge of the shared-use path.

Install bollards at entrances to shared-use paths to discourage motor vehicles from entering. Do not use bollards to divert or slow path traffic. When locating such installations, stripe an envelope around the bollards and paint and reflectorize them to be visible to path users both day and night. Bollards located on or adjacent to shared-use paths represent an object that needs to be avoided by bicyclists and pedestrians. To increase the potential for appropriate maneuvering to occur, provide designs where the post is clearly visible and recognizable.

When designing bollards, the following apply:

- The desirable design is to provide a single bollard, installed in the middle of the path to reduce confusion.
- When multiple bollard posts are used in wide path sections, use a minimum 5-foot spacing between the edge of concrete footings to permit passage of bicycle-towed trailers, wheelchairs, and adult tricycles, with room for bicycle passage without dismounting.
- Provide 4 feet minimum (5 feet desirable) clear width between the edge of concrete footing and edge of path.
- At a minimum, provide stopping sight distance to bollards. An ideal location for bollard placement is in a relatively straight area of the path where the post placement has the stopping sight distance given in Exhibit 1515-14a and 14b. Do not place bollards in difficult-to-see locations (for example, immediately upon entering a tunnel).
- For cases where multiple posts are used longitudinally along the path, locate them at least 20 feet apart, with the first post in line from each direction having stopping sight distance.
- Use a contrasting striping pattern on the post.
- Use reflective materials on the post, such as a band at the top and at the base.
- Design all bollards along a corridor to be uniform in appearance. Frequent cyclists can become familiar with the posts and recognize them easily.
- Provide pavement markings in accordance with the *Standard Plans* and *MUTCD* at all bollards on paved paths.
- Use removable bollards (Bollard Type 1) to permit access by emergency and service vehicles.
- Nonremovable bollards (Bollard Type 2) may be used where access is not needed.

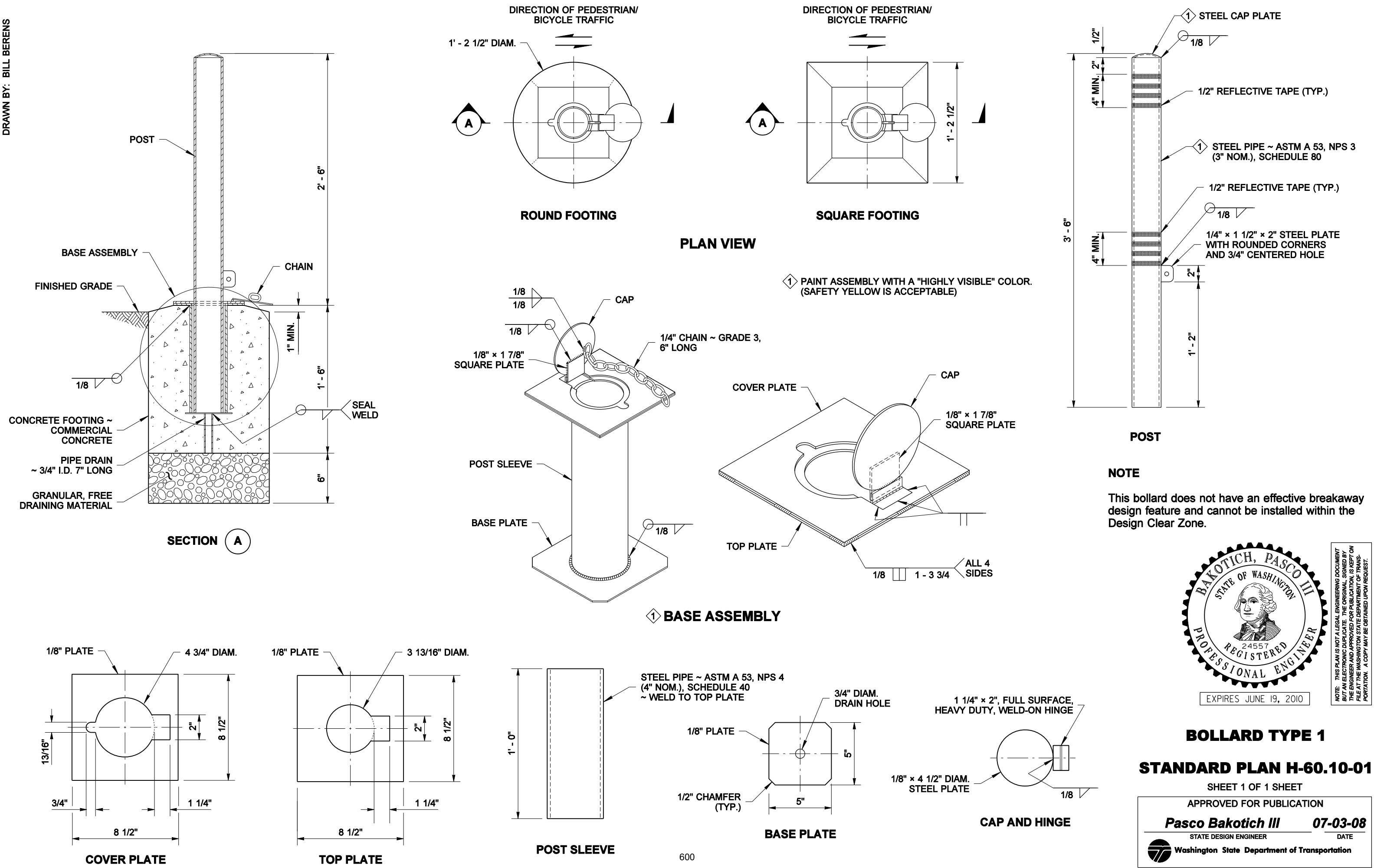
Refer to the *Standard Plans* for bollard designs and the *Standard Plans* and *MUTCD* for pavement markings at bollards.

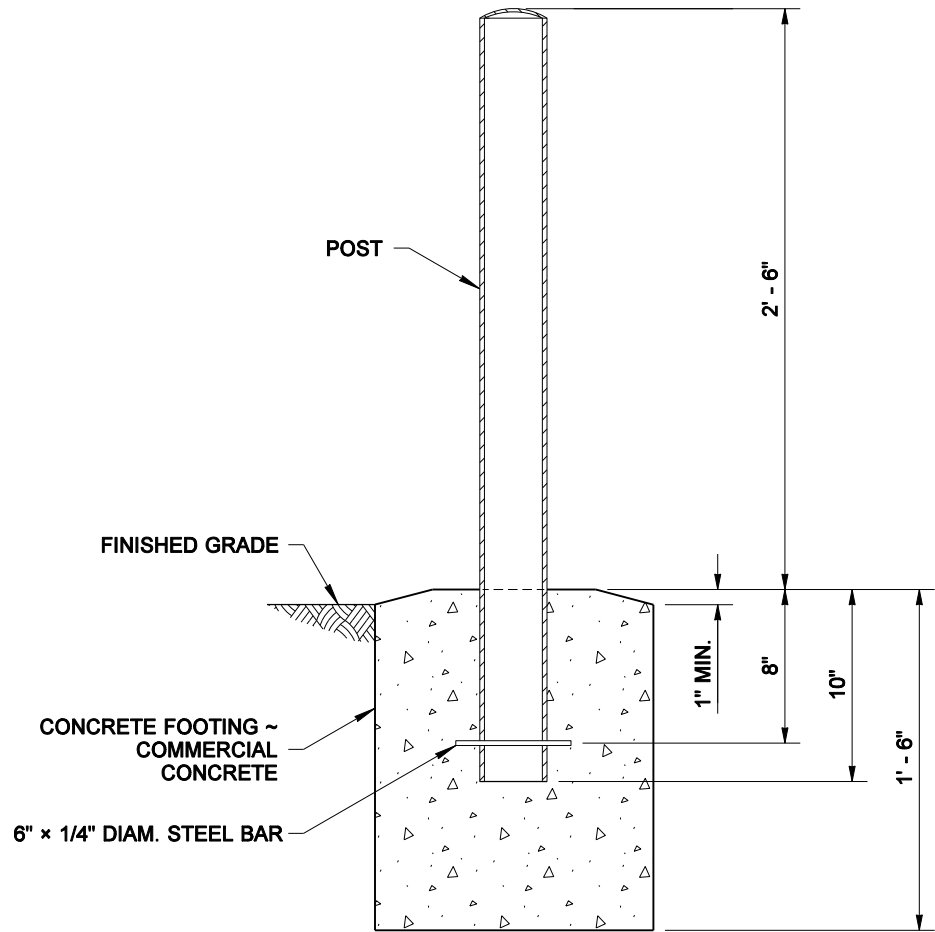
When bollards need to be placed near the roadway, see Chapter 1600 for clear zone requirements.

## 1515.09 Documentation

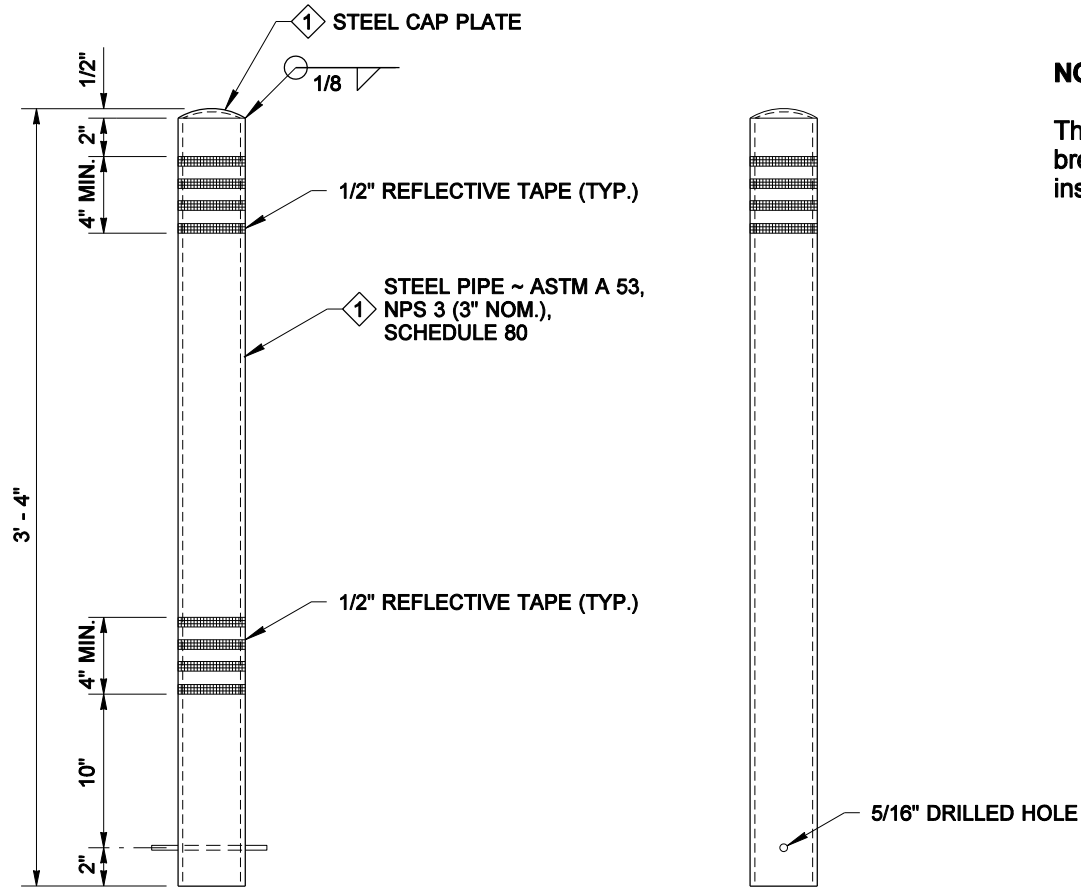
For the list of documents required to be preserved in the Design Documentation Package and the Project File, see the Design Documentation Checklist:

🔗 [www.wsdot.wa.gov/design/projectdev/](http://www.wsdot.wa.gov/design/projectdev/)





SECTION A

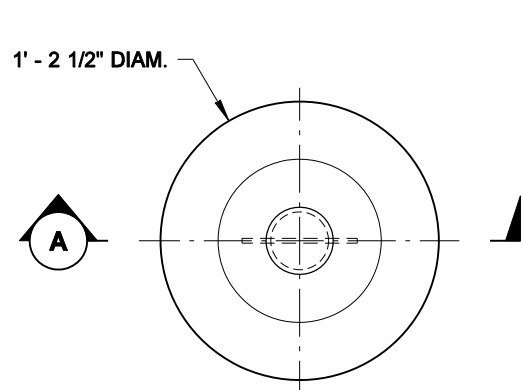


FRONT VIEW

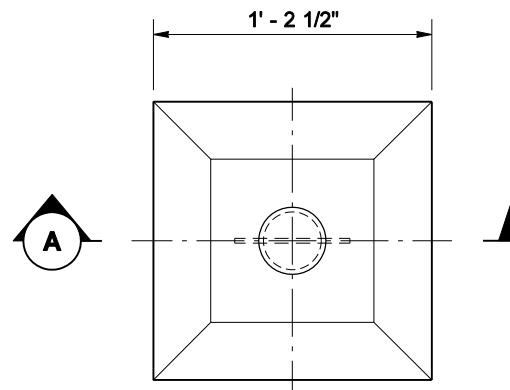
SIDE VIEW

1 PAINT ASSEMBLY WITH A "HIGHLY VISIBLE" COLOR. (SAFETY YELLOW IS ACCEPTABLE)

POST



ROUND FOOTING



SQUARE FOOTING

PLAN VIEW

NOTE

This bollard does not have an effective breakaway design feature and cannot be installed within the Design Clear Zone.



EXPIRES JUNE 19, 2010

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

BOLLARD TYPE 2

STANDARD PLAN H-60.20-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III

STATE DESIGN ENGINEER

07-03-08

DATE



Washington State Department of Transportation



## Appendix C: GARTC Draft Bollard Policy

## **DRAFT**

### **Policy and Standards for the Use of Bollards In Bernalillo County, New Mexico**

The Greater Albuquerque Recreational Trails Committee is an advisory committee created by the City of Albuquerque. This committee is authorized to advise all executive branches within the City of Albuquerque, the Bernalillo County government, AMAFCA, and other government entities within Bernalillo County regarding multi-use trails.

Various government entities have chosen to use bollards (metal barrier posts) to prevent entry of illegal motor vehicles onto multi-use trails in Bernalillo County. Multi-use trails are separate paths or trails dedicated to use by cyclists, skaters, runners and other pedestrians. These trails should be open and accessible to the elderly and the disabled. Disabled and elderly citizens have various conveyances that require more space than typical bicycles and bollard designs should reflect that reality.

Bollards present a hazard to the users of multi-use trails and GARTC members think their use should be carefully considered. Instead of automatically installing many, closely spaced bollards at entrances to multi-use trails, the City departments and other government entities should really think out the need for bollards and whether the bollards themselves may pose more of a hazard to the public than illegal motor vehicles. Dealing with a law enforcement problem with an "engineering solution" may cause grave harm to the public. Children are thought to be more at risk because of undeveloped skills and the elderly are more vulnerable because of diminished vision, spatial resolution and slower reaction times.

We at GARTC think that all government entities in Bernalillo County should adopt a bollard policy based upon the three step approach outlined in the 2012 Guide for the Development of Bicycle facilities (AASHTO), pages 5-46 and 5-47.

A worthwhile goal is to establish a uniform bollard utilization policy throughout Bernalillo County.

Other considerations are:

- 1) AASHTO recommendations for spatial dimensions should be codified as City of Albuquerque standards in all cases. For instance, bollards should not be placed closer together than 6 feet.
- 2) If it is determined by a thoughtful and judicious process that bollards are truly necessary, then the configuration should be a single bollard on the centerline of the trail. The configuration commonly used in Albuquerque, i.e., a triplet of closely spaced bollards, should be banned because it can block disabled people and endangers all people.
- 3) The City of Albuquerque should consider using signs on multi-use trails requesting the public to report illegal vehicles and should provide the appropriate telephone number.

4) If law enforcement is difficult to execute or ineffective, surveillance cameras should be used to control illegal motor vehicles. Many of the City and AMAFCA multi-use trails are isolated and difficult to police. Therefore, the City should also consider mounted police patrols to deal with illegal activities on such trails.

GARTC



6100 Uptown Boulevard  
Suite 700  
Albuquerque, New Mexico 87110

# 2024 CITY OF ALBUQUERQUE BIKEWAY AND TRAIL FACILITIES PLAN APPENDIX J: Bicycle and Trail Crossings Guide







# *City of Albuquerque* ***Bicycle and Trail Crossings Guide***



**ONE  
ALBUQUE  
RQUE**



607

**ONE  
ALBUQUE  
RQUE** vision zero



# Table of Contents

---

## Introduction

Background .....	2
Role of the MUTCD .....	4
Policy Guidance.....	5

## Crossing Design Elements

Introduction .....	6
Designated vs Undesignated Crossings.....	6
Signalized vs Unsignalized Crossings.....	6
Enhanced Visibility Treatments .....	8
Signage .....	9
High Visibility Crosswalk Markings.....	13
Advance Stop/Yield Lines.....	16
In-Street Pedestrian Crossing Signs .....	17
Pedestrian-Scale Lighting.....	20
Rectangular Rapid Flashing Beacon .....	21
Signal Treatments .....	23
Full Traffic Signal .....	24
Pedestrian Hybrid Beacon/HAWK Signal .....	25
Infrastructure Treatments .....	28
Raised Crosswalks .....	29
Curb Extensions/Bulb Outs .....	31
Pedestrian Refuge Islands .....	33
Grade-Separated Crossings.....	35
Road Diets .....	37

## Crossing Applications and Roadway Context

Step 1: Site Selection .....	43
Step 2: Site Feasibility .....	45
Step 3: Crossing Design Selection .....	46
Methodology.....	46
Application .....	47

## Trail Crossing Profiles

Juan Tabo Blvd .....	54
Eubank Blvd.....	56
Wyoming Blvd .....	58
San Mateo Blvd .....	60
Carlisle Blvd .....	62
Pennsylvania St .....	64
Golf Course Rd .....	66

## Appendices

Definitions .....	68
Crossing Treatments Guidelines Methodology.....	70
Crash Modification Factors .....	73
References .....	74

# Table of Contents

## Figures

Figure 1: Designated Signalized Crossing at Tramway Blvd and Spain Rd	7
Figure 2: Undesignated Crossing at Garfield Ave and Richmond Dr	7
Figure 3: Designated Signalized Crossing at Lomas Blvd and Alvarado Dr	7
Figure 4: Unsignalized Designated Crossing at San Pedro Dr and Claremont Ave	7
Figure 5: High Visibility Crosswalk Markings and Signage on Mountain Rd	8
Figure 6: Enhanced Visibility Treatments at Unsignalized Crossing	8
Figure 7: Bicyclist Crossing Signage at Indian School Rd near North Diversion Channel Trail	9
Figure 8: Crosswalk Marking Types	13
Figure 9: DPM Figure 7.4.72 Crosswalk Markings	14
Figure 10: Bicyclist Crossing without Crosswalk Markings, Lomas Blvd and 14th St	15
Figure 11: Advance Yield Line on Multi-Lane Crossing	16
Figure 12: Recommended Stop/Yield Line Layout	17
Figure 13: In-Street Pedestrian Crossing Sign Example	17
Figure 14: Overhead Flashing Lights Example	19
Figure 15: Pedestrian-Scale Lighting at Night	20
Figure 16: Rectangular Rapid Flashing Beacon on Multi-Lane Arterial	21
Figure 17: RRFB with Complementary Treatments	22
Figure 18: Crossing at Full Traffic Signal on Taylor Ranch Rd	23
Figure 19: Pedestrian Hybrid Beacon on Central Ave	23
Figure 20: Traffic Signal on Lead Ave	24
Figure 21: PHB on Lomas Blvd and Alvarado Dr	25
Figure 22: PHB Complementary Crossing Treatments	26
Figure 23: PHB Signal Cycle	27
Figure 24: Crossing with Road Diet, Curb Extension and Refuge Island	28
Figure 25: Raised Crosswalk with Curb Extension and In-Street Pedestrian Crossing Sign	28
Figure 26: Raised Crosswalk on Alameda Drain Trail	29

Figure 27: Raised Crosswalk on Side Street	30
Figure 28: DPM Figure 7.2.95 Standard Curb Return Radii Diagram	32
Figure 29: Pedestrian refuge island with high-visibility crosswalk and signage	33
Figure 30: Pedestrian Refuge Island Complementary Treatments	34
Figure 31: Grade-Separated Underpass on North Diversion Trail	35
Figure 32: Grade-Separated Bridge on Paseo del Norte Trail	35
Figure 33: Example of a Road Diet	37
Figure 34: Crossing at Zuni Rd Before Road Diet	38
Figure 35: Crossing at Zuni Rd After Road Diet	38
Figure 36: Three Step Flow Chart for Crossing Selection	42
Figure 37: Site Selection Flowchart	44
Figure 38: Site Feasibility Flowchart	45
Figure 39: Crossing Treatment Selection Flowchart, One Lane Crossings	50
Figure 40: Crossing Treatment Selection Flowchart, Two-Lane Crossings	51
Figure 41: Crossing Treatment Selection Flowchart, Three-Lane Crossings	52
Figure 42: Crossing Treatment Selection Flowchart, Four or More Lane Crossings	53
Figure 43: Existing Trail Crossing at Juan Tabo Blvd	54
Figure 44: Adjacent Crossing Locations at Juan Tabo Blvd	54
Figure 45: Existing Trail Crossing at Eubank Blvd	56
Figure 46: Adjacent Crossing Locations at Eubank Blvd	56
Figure 47: Existing Trail Crossing at Wyoming Blvd	58
Figure 48: Adjacent Crossing Locations at Wyoming Blvd	58
Figure 49: Existing Trail Crossing at San Mateo Blvd	60
Figure 50: Adjacent Crossing Locations at San Mateo Blvd	60
Figure 51: Existing Trail Crossing at Carlisle Blvd	62
Figure 52: Adjacent Crossing Locations at Carlisle Blvd	62
Figure 53: Existing Crossing at Pennsylvania St	64
Figure 54: Adjacent Crossing Locations at Pennsylvania St	64
Figure 55: Existing Crossing at Golf Course Rd	66
Figure 56: Adjacent Crossing Locations at Golf Course Rd	66

# Table of Contents

---

## Tables

Table 1: DPM Table 7.4.43 Designated Pedestrian Crossing Types .....	6
Table 2: Pedestrian and Bicycle Warning Signs, MUTCD .....	11
Table 3: Signs for Unsignalized Crossings, MUTCD .....	12
Table 4: Benefits and Limitations Summary Table .....	40
Table 5: Complementary Treatments Summary Table .....	41
Table 6: DPM Table 7.4.64 Minimum Stopping Sight Distance .....	45
Table 7: Notes on Crossing Treatment Selection Matrix .....	47
Table 8: Crossing Treatment Selection Matrix.....	48
Table 9: Juan Tabo Blvd Existing Conditions.....	54
Table 10: Eubank Blvd Existing Conditions .....	56
Table 11: Wyoming Blvd Existing Conditions.....	58
Table 12: San Mateo Blvd Existing Conditions.....	60
Table 13: Carlisle Blvd Existing Conditions .....	62
Table 14: Pennsylvania St Existing Conditions .....	64
Table 15: Golf Course Rd Existing Conditions .....	66
Table 16: FHWA Vehicle Travel Lane Categories .....	70
Table 17: Changes to FHWA Crossing Treatments Guidance .....	71

# Introduction

---

## Background

New Mexico regularly has the highest (or among the highest) rate of pedestrian fatalities per capita in the nation, and Albuquerque crashes account for 42% of the state's fatal pedestrian-involved crashes. In 2019, 13% of pedestrians involved in a crash died as a result (NMDOT, 2019). Additionally, New Mexico ranks as the fifth worst state for bicyclist fatalities per capita and bicycle fatalities per bicycle miles traveled (Streetlight Data, 2021).

At least 52% of pedestrian fatal crashes in New Mexico occurred at locations without traffic signals or stop signs (the actual percentage is likely much higher, as over a quarter of police reports did not include crash location). Given the high rates of pedestrian and bicyclist fatalities, especially fatalities where no traffic control exists, creating safe pedestrian and bicyclist crossing opportunities throughout the City of Albuquerque is of high importance.

Albuquerque has hundreds of miles of off-street multi-use paths, providing excellent opportunities for walking and biking within the city. However, with the exception of the Bosque Trail and North Diversion Channel Trail (which have grade-separated crossings along their entire lengths), multi-use trails frequently intersect with wide, high-speed arterial roadways. Long block lengths in many parts of the city also create challenges for pedestrians trying to cross, as signalized pedestrian crossings are often placed over a half mile apart. More frequent and safer designated crossing locations are a means of addressing these safety issues and enhancing conditions for bicyclists, pedestrians, and trail users across Albuquerque.

## Purpose

The purpose of this report is to provide clear and consistent guidance for the design and application of bicycle and pedestrian crossings within the City of Albuquerque. This report is divided into two parts. The first section describes **countermeasures** to improve safety at crossing locations. Countermeasures are ordered from least comprehensive to most comprehensive and include visibility treatments, signal treatments, and infrastructure treatments.

The second section provides a **three-step decision-making tool** on how apply crossing treatments to specific roadway contexts.

- Step 1 determines the **appropriateness of a location for a crossing** based on its Comprehensive Plan designations, distance from other crossings, proximity to transit, safety considerations, and presence of special generators and trails.
- Step 2 determines the **technical feasibility** of a location for a crossing based on engineering factors.
- Step 3 provides guidance on selecting **appropriate treatments** given a roadway's width, speed, and traffic volumes.

## Role of the MUTCD

The Manual of Uniform Traffic Control Devices (MUTCD) serves as the primary reference for **design standards and signage placement**, while this document and the Development Process Manual (DPM) serve as the primary references in selecting a **crossing location** and the **appropriate treatment** for a crossing.



# Introduction

---

## Policy Guidance

The following Albuquerque plans and policies support the implementation of improved bicycle and pedestrian crossings and provide guidance on their design and location.

**Comprehensive Plan:** The Albuquerque/Bernalillo County Comprehensive Plan (Comp Plan) provides guidance on where pedestrian crossings should be prioritized based on Center and Corridor designations. Centers are areas within the metropolitan area that are planned for higher-intensity uses and include Downtown, Urban Centers, Activity Centers, Employment Centers, and Village Centers. Corridor designations help prioritize street elements and modes based on anticipated or desired users, and include Premium Transit Corridors, Major Transit Corridors, Main Street Corridors, Multi-Modal Corridors, and Commuter Corridors. See Comp Plan Figure 5-2 for a map of Albuquerque’s Centers and Corridors. In the Comp Plan, Premium Transit, Major Transit, and Main Street Corridors are the highest priority locations for crossings, especially where these roadways intersect with a Center or transit station.

**Development Process Manual:** The City of Albuquerque’s DPM provides guidance and standards on street design to ensure consistent high-quality infrastructure throughout the city and includes sections on the design and location of pedestrian/bicyclist crossings. The DPM recommends signalized crossings (through traffic signals or pedestrian hybrid beacons) at all existing traffic signals and at least every ½ mile. For crossings at unsignalized locations, the DPM provides a decision path to determine the

appropriate design and level of vehicular control (DPM Figure 7.4.52).

**Complete Streets Ordinance:** The City of Albuquerque Complete Streets Ordinance requires that all roadway projects, excluding maintenance projects, be designed to “mitigate existing, insufficient multi-modal facilities” and include consideration of all modes of transportation. Per the Ordinance, Complete Streets should “allow comfortable and convenient street crossings and pedestrian access to adjacent land uses.” The Complete Streets Ordinance encourages enhanced mid-block crossings with high-visibility markings and, where necessary, pedestrian hybrid beacons or traffic signals. Roadway projects are also required to include appropriate measures to facilitate the crossing of bicycle traffic.

**Vision Zero Action Plan and Executive Order:** The City of Albuquerque’s Vision Zero Initiative has the goal of eliminating traffic fatalities in Albuquerque by 2040. The Vision Zero Action Plan outlines techniques for achieving this goal, including Complete Streets designs, speed management, and increasing opportunities for walking and rolling.

# Crossing Design Elements

## Introduction

The following section describes crossing design elements that can be installed to designate a pedestrian crossing. These include: **signal treatments**, **visibility treatments**, and **infrastructure treatments**.

The measures described in this report should rarely be installed as stand-alone treatments, as pedestrian crossings are safest when a combination of tools are used. For example, visibility treatments like crosswalks and signage can be combined with infrastructure treatments such as curb extensions or refuge islands to create a safer and more comfortable crossing.

Pedestrian crossings can be defined as either designated or undesignated crossings. Designated crossings can be either signalized or unsignalized; undesignated crossings are always unsignalized. Figure 1 and Figure 2 are examples of designated and undesignated crossings, while Figure 3 and Figure 4 are examples of signalized and unsignalized crossings, respectively.


## Designated vs Undesignated Crossings

The City of Albuquerque's DPM defines **designated pedestrian crossings** as those "where pedestrians are encouraged to cross a roadway, as indicated by a combination of signal devices, signage, or pavement markings."

**Undesignated crossings** are locations without pavement markings, signal devices, or signage where pedestrians may legally cross a roadway. These crossings are typically at intersections with smaller streets that have sidewalk and may have a stop sign; pedestrians are expected and encouraged to cross at these locations but there are no formal signs or striping that indicate the presence of a

pedestrian crossing. Designated pedestrian crossings generally provide a higher level of safety and comfort than undesignated crossings (see Table 1).

Table 1: DPM Table 7.4.43 Designated Pedestrian Crossing Types

TABLE 7.4.43 Designated Pedestrian Crossing Types		
	Controlled Locations	Traffic control device (signal or stop signs)
		Pedestrian hybrid beacon
	Uncontrolled Locations	Flashing beacon (rapid rectangular flash beacon, in-pavement flashers)
		Pedestrian refuge island
		Signage (in-street, overhead, or sign post)
		Marked crosswalk (no signs or signals)

**State of New Mexico Law:** Drivers are required by law in New Mexico to yield to pedestrians in a crosswalk (NM Stat §66-7-334). When crossing at any location other than a crosswalk or an unmarked crosswalk at an intersection (i.e. an undesignated crossing), pedestrians are allowed to cross but must yield to vehicles (NM Stat §66-7-335).

## Signalized vs Unsignalized Crossings

**Signalized crossings** are associated with a traffic signal or other traffic control device that requires vehicle traffic to come to a complete stop. Generally, signalized pedestrian crossings are located only at intersections with a full traffic signal or at pedestrian hybrid beacons (PHBs), also referred to as HAWK signals.

**Unsignalized crossings** are designated crossings that do not have traffic signals and may be located at mid-block locations or intersections.

# Crossing Design Elements

Figure 1: Designated Signalized Crossing at Tramway Blvd and Spain Rd



Figure 2: Undesignated Crossing at Garfield Ave and Richmond Dr



Figure 3: Designated Signalized Crossing at Lomas Blvd and Alvarado Dr



Figure 4: Unsignalized Designated Crossing at San Pedro Dr and Claremont Ave



# Crossing Design Elements: Enhanced Visibility Treatments

## Enhanced Visibility Treatments

Enhanced visibility treatments, including signage, crosswalk markings, advance stop or yield lines, in-street pedestrian crossing signs, overhead flashing lights, pedestrian-scale lighting, and rectangular rapid flashing beacons (RRFBs), can alert drivers to the presence of a crosswalk and increase the likelihood of drivers yielding at crossing locations.

High-visibility crosswalk markings with signage can act as a stand-alone treatment on slower-speed, lower volume roadways (see Figure 5) or as complementary treatments to signalized crossings or RRFBs on high-speed, busier roadways.

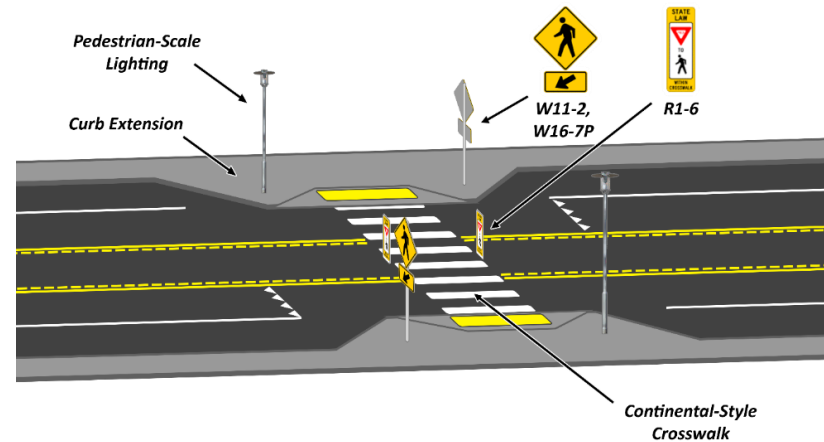
Figure 5: High Visibility Crosswalk Markings and Signage on Mountain Rd



Each enhanced visibility treatment in this report is meant to be installed with other visibility treatments and/or infrastructure treatments. For example, crosswalk markings can be paired with signage, curb extensions, pedestrian-scale lighting, and in-street pedestrian crossing signs to create a comfortable, high-visibility crossing location (see Figure 6).

All enhanced visibility treatments increase the visibility of the crossing for motorists, have minimal impacts on traffic operations, and are low-cost.

Figure 6: Enhanced Visibility Treatments at Unsignalized Crossing





# Crossing Design Elements: Enhanced Visibility Treatments

## Signage

A variety of signs can designate a location as a crossing and alert drivers to the presence of pedestrians and bicyclists. Pedestrian crossing signs are usually installed at the crosswalk location and may have a placard with an arrow pointing to the crosswalk.

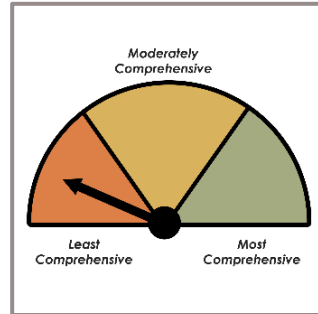


Figure 7: Bicyclist Crossing Signage at Indian School Rd near North Diversion Channel Trail



## Benefits

**Increases visibility:** Signs can remind drivers that they are required by law to yield to pedestrians within a crosswalk and alert drivers to trail crossings or areas with high pedestrian/bicyclist activity.

**Education:** Signs educate and remind drivers that motorists must yield to people crossing.

## Limitations

**Not effective as stand-alone treatment:** Signs must be accompanied with other crossing treatments to be effective.

## Design Considerations

**MUTCD compliance:** Pedestrian crossing signs that communicate the location of a crosswalk are required to conform to standards contained in the MUTCD. The typical pedestrian crossing sign is a rotated square with a yellow or fluorescent green retroreflective background and a black silhouette of a pedestrian. Pedestrian crossings may also include “Yield to Pedestrian” signs, “Stop for Pedestrians” signs, or other signs that remind drivers of state laws requiring yielding or stopping for pedestrians within crosswalks.

Table 2 shows MUTCD-approved signs for crossing locations. Additional signs for school zones can be referenced in MUTCD Section 7B.08.

**Advance stop or yield signs:** When applied in conjunction with an RRFB, advance yield or stop signs should be located 30 to 50 feet in advance of the crosswalk (MUTCD R1-5 signs). Advance crossing signs have been associated with increased driver yielding rates and



## Crossing Design Elements: Enhanced Visibility Treatments

---

help address concerns related to multiple threat crashes on multi-lane roadways.

### *Complementary Treatments*

Signage alone is not sufficient to create a safe crossing location and should be accompanied with other treatments. Signage can be paired with:

- High visibility crosswalk markings
- Advance stop/yield lines
- In-street pedestrian crossing signs
- Pedestrian scale lighting
- RRFBs
- PHBs
- Infrastructure treatments such as pedestrian refuge islands, curb extensions/bulb-outs, raised crosswalks, and road diets









### *Location/Context*

Although signage and crosswalk markings are adequate treatments for low-speed, low-volume roadways, these treatments alone are generally **not sufficient** in the following conditions:

- Where the speed limit is greater than 40 mph.
- Where pedestrians must cross two or three lanes at a time, speed limits are 35 mph or above, and average daily traffic (ADT) is greater than 9,000.
- Where pedestrians must cross four or more lanes at a time, speed limits are above 30 mph, and ADT is greater than 9,000.

## Crossing Design Elements: Enhanced Visibility Treatments

Table 2: Pedestrian and Bicycle Warning Signs, MUTCD

Image	Name	MUTCD Reference	Image	Name	MUTCD Reference
	Pedestrian Warning Sign	W11-2 Section 2C.50		Downward Diagonal Arrow (to be used with Pedestrian and/or Bicyclist Warning Sign)	W-16-7p Section 2C.50
	Bicycle Warning Sign	W11-1 Section 2C.50		School Sign	S1-1 Section 7B.08
	Bicycle and Pedestrian Warning Sign	W11-15 Section 2C.50		Trail X-ing Plaque	W11-15P Section 2C.50
	Trail Crossing	W11-15a Section 2C.50		When Flashing Plaque	W16-13P Section 2C.50

# Crossing Design Elements: Enhanced Visibility Treatments

Table 3: Signs for Unsignalized Crossings, MUTCD

Image	Name	MUTCD Reference	Image	Name	MUTCD Reference
	Yield Here to Pedestrians	R1-5 Section 2B.11		Stop Here for Pedestrians	R1-5c Section 2B.11
	Yield Here to Pedestrians	R1-5a Section 2B.11		In-Street Pedestrian Crossing (Yield)	R1-6 Section 2B.12
	Stop Here for Pedestrians	R1-5b Section 2B.11		In-Street Pedestrian Crossing (Stop)	R1-6a Section 2B.12
	Overhead Pedestrian Crossing (Yield)	R1-9 Section 2B.12		Overhead Pedestrian Crossing (Stop)	R1-9a Section 2B.12

# Crossing Design Elements: Enhanced Visibility Treatments

## High Visibility Crosswalk Markings

Crosswalk markings serve two primary purposes: 1) communicating to pedestrians the safest place to cross; 2) legally designating a location where vehicles must yield to those crossing. High visibility crosswalk marking types include continental, continental with transverse bars, and zebra, as shown in Figure 8. The DPM recommends continental-style crosswalks with or without transverse bars.

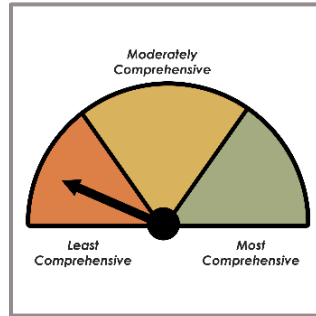
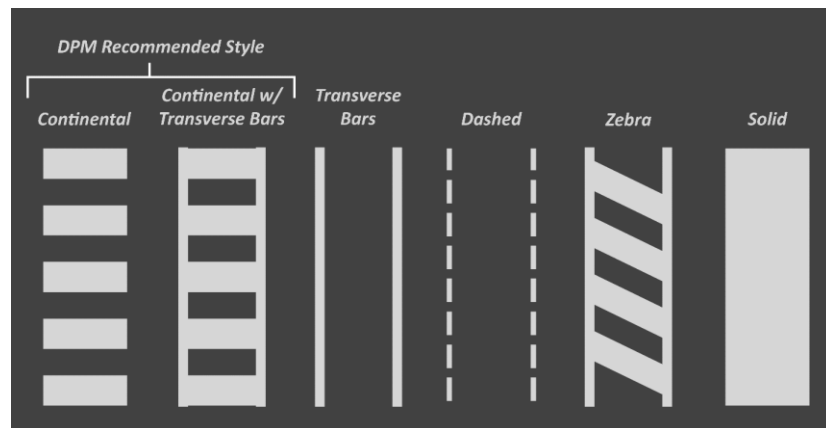


Figure 8: Crosswalk Marking Types



## Benefits

**Reduce pedestrian crashes:** High visibility crosswalk markings may reduce pedestrian crashes by up to 40% (Chen et al., 2012), although some studies have shown that crosswalk markings alone without other visibility enhancements do not reduce crashes (Zegeer et al., 2005).

**Increase driver yield rates:** High visibility markings have been proven to increase driver yielding rates and are more easily detected by drivers than standard crosswalk designs (NCHRP, 2016). A study that examined driver yield rates on two-lane streets with speed limits of 25 or 30 mph indicated that in-street pedestrian crossing signs with high visibility signs and crosswalk markings had yield rates ranging from 82% to 91% (NCHRP, 2006).

## Limitations

**Not effective as stand-alone treatment:** In most locations, crosswalk markings alone are not sufficient to allow pedestrians to safely cross the street. Along streets with traffic volumes greater than 12,000 ADT, crosswalk markings can increase crash rates if not installed with other crossing improvements (Zegeer et al., 2005).

**Maintenance:** Crosswalk markings need regular maintenance and re-painting to remain highly visible to drivers. Crosswalk markings are likely to last longer on the pavement if placed between the wheel path of vehicles.

# Crossing Design Elements: Enhanced Visibility Treatments

## Complementary Treatments

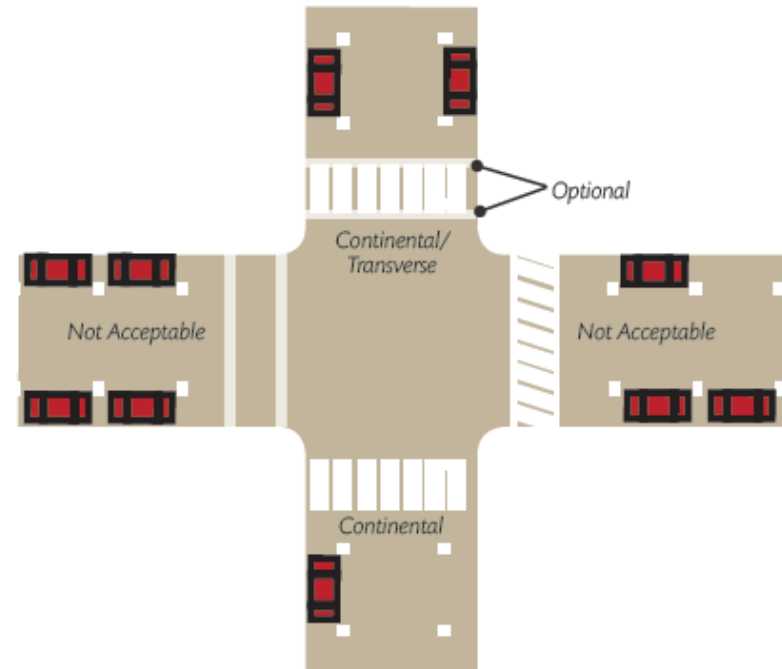
Crosswalk markings alone are not sufficient to create a safe crossing location and should be accompanied with other treatments such as:

- Warning signage
- Advance stop/yield lines
- In-street pedestrian crossing signs
- Pedestrian-scale lighting
- RRFBs
- PHBs
- Infrastructure treatments such as pedestrian refuge islands, raised crosswalks, curb extensions/bulb-outs, and road diets

## Design Considerations

**Recommended style:** DPM section 7-4(E)(1)(ix) provides guidance on crosswalk markings, recommending high-visibility **continental** crosswalk markings for all crosswalks. Transverse bars may be placed in conjunction with continental crosswalk markings but should not be used as a stand-alone crosswalk. Figure 9 shows the DPM recommended crosswalk designs.

Figure 9: DPM Figure 7.4.72 Crosswalk Markings



**Width:** Per the DPM, crosswalks within Centers should be at least 10 feet wide and crosswalks outside of Centers should be at least 6 feet wide.

**Pavement materials:** DPM section 7-4(C) provides guidance on crosswalk pavement and marking materials. Alternative pavement materials, such as brick, pavers, permeable pavement, stamped concrete, or gravel, may be used to differentiate the crosswalk from the rest of the street (7-4(C)(7)).



# Crossing Design Elements: Enhanced Visibility Treatments

## Location/Context

In New Mexico, vehicles are not required to yield to pedestrians unless they are crossing within a marked crosswalk. Therefore, crosswalk markings should always be used in locations where driver yielding is desired, especially in locations where bicyclists and pedestrians would experience long delays while waiting for gaps in traffic. Figure 10 is an example of a bicycle crossing location without crosswalks where bicyclists must yield to vehicles before crossing.

## Potentially Dangerous Applications

There are some contexts where marking a crosswalk without installing other crossing treatments can *decrease* safety for those attempting to cross. These contexts include:

- Roads with speed limits of 40 mph or greater
- Roads with four or more lanes, no raised median or refuge island, and ADT of 12,000 or greater
- Roads with four or more lanes with a raised median or refuge island with ADT of 15,000 or greater (Zegeer et al., 2005)

Marking a crosswalk in these locations without installing other treatments encourages pedestrians to cross at unsafe locations where vehicles are unlikely to yield, even if they are legally required to do so.

Figure 10: Bicyclist Crossing without Crosswalk Markings, Lomas Blvd and 14th St



# Crossing Design Elements: Enhanced Visibility Treatments

## Advance Stop/Yield Lines

Advance stop lines are a solid white line placed across the roadway before a crosswalk to indicate where a vehicle should stop to wait for pedestrians. Advance yield lines are similar but have a triangle “sharks teeth” design rather than a solid line.

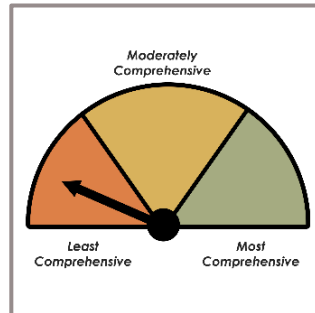


Figure 11: Advance Yield Line on Multi-Lane Crossing



Source: Toole Design Group

## Benefits

**Reduce multiple-threat crashes:** Advance stop/yield lines can reduce pedestrian crashes by 25% (FHWA, 2013). By positioning

vehicles behind a crosswalk, drivers in vehicle travel lanes on multi-lane roadways are more likely to see and yield to people crossing the street. They also allow pedestrians to better see oncoming traffic and respond if a vehicle does not yield.

## Limitations

**Motorist compliance:** Advance stop/yield lines are not effective if vehicles stop beyond the line. Driver education and advance signage (see MUTCD R1-5 series signs in

Table 2) can help increase compliance.

**Maintenance:** Like all pavement markings, advance stop/yield lines need regular maintenance to remain highly visible.

**Parking restrictions:** If on-street parking is present, parking should be restricted between advance stop/yield lines and the crosswalk to increase the visibility of pedestrians.

## Complementary Treatments

Treatments that can complement advance stop/yield lines include:

- High visibility crosswalks (advance stop/yield lines should always be installed in conjunction with a crosswalk)
- Warning signage
- In-street pedestrian crossing sign
- Pedestrian-scale lighting
- RRFBs
- PHBs
- Infrastructure treatments such as pedestrian refuge islands, curb extensions/bulb-outs, raised crosswalks, and road diets

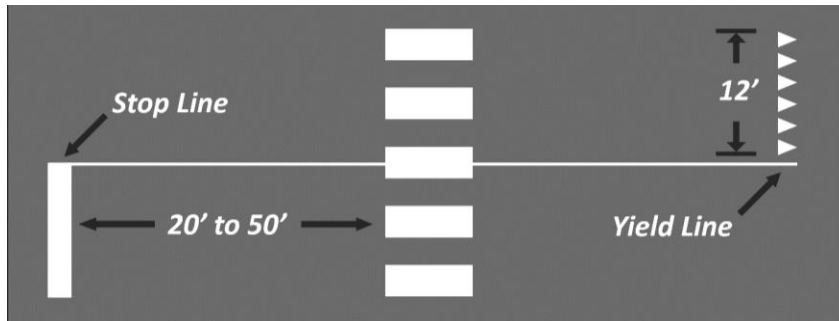
# Crossing Design Elements: Enhanced Visibility Treatments

## Design Considerations

**Stop lines vs yield lines:** Advance stop lines should be placed where vehicles are legally required to stop and wait for pedestrians, such as at stop signs, traffic signals, or PHBs. Advance yield lines should be placed where vehicles are legally required to yield to pedestrians, including unsignalized crosswalks and RRFBs.

**Placement:** Advance stop/yield lines should be placed 20-50' in advance of a crossing location (see Figure 12). Generally, 30' is an appropriate distance between a crosswalk and advance stop/yield lines (FHWA, 2013). The MUTCD recommends placing a stop line 40' from the crosswalk at *signalized* midblock crossings. For additional guidance on the placement and design of advance stop and yield lines, see MUTCD Section 3B.16.

Figure 12: Recommended Stop/Yield Line Layout



## Location/Context

While advance stop/yield lines can be installed at any crosswalk, they are particularly effective at the following locations:

- Multi-lane roads with speed limits of 35 mph or greater
- Multi-lane roads with ADT of 15,000 or greater

## In-Street Pedestrian Crossing Signs

In-street pedestrian crossing signs are placed in the middle of a street to serve as a reminder to motorists that they are required by law to yield to crossing pedestrians. Signs can be placed in a median, on lane lines, or on the yellow center line if no median is present.

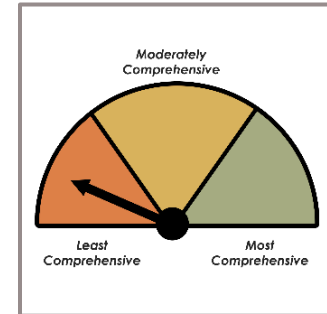


Figure 13: In-Street Pedestrian Crossing Sign Example



Source: Visi Flash Pedestrian Safety Solutions

# Crossing Design Elements: Enhanced Visibility Treatments

---

## Benefits

**Education:** In-street pedestrian crossing signs educate and remind drivers that motorists must yield to people crossing.

**Traffic calming:** Signs placed in the roadway have a traffic calming effect by visually narrowing the roadway.

## Limitations

**Maintenance:** In-street signs can be easily damaged and need to be replaced when struck.

**Limited effectiveness on large roads:** In-street pedestrian crossing signs are more effective on low-speed streets with two lanes (PBIC, n.d.).

## Complementary Treatments

In-street pedestrian crossing signs can be installed in conjunction with the following treatments:

- High visibility crosswalks (in-street pedestrian crossing signs should always be installed in conjunction with a crosswalk)
- Warning signage
- Advance stop/yield lines
- Pedestrian-scale lighting
- RRFBs
- PHBs
- Infrastructure treatments such as pedestrian refuge islands, curb extensions/bulb-outs, raised crosswalks, and road diets

## Design Considerations

**MUTCD compliance:** MUTCD yield sign R1-6 (see

Table 2) should be used as in-street pedestrian crossing signs in New Mexico. Other signs, including roadside and overhead warning signs, can be installed in conjunction with R1-6 signs.

**Placement:** Signs can only be placed at unsignalized crossing locations and should comply with AASHTO breakaway requirements.

For further design considerations, reference MUTCD section 2B.12.

## Location/Context

In-street pedestrian crossing signs can be installed on lower-speed, narrower roadways. They can be considered as a treatment on one to three lane roads with speed limits of 30 mph or less.



# Crossing Design Elements: Enhanced Visibility Treatments

## Overhead Flashing Lights

Overhead flashing lights are alternating yellow lights placed on a masthead above the roadway to indicate the presence of a crossing or school zone. Overhead flashing lights are an older technology that has been used extensively in the Albuquerque region.

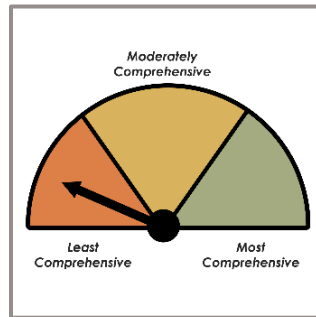


Figure 14: Overhead Flashing Lights Example



Source: FHWA

## Benefits

**Increases visibility:** Overhead flashing lights can draw drivers' attention to a crossing location or school zone.

**Minimal impacts on traffic operations:** Overhead flashing lights do not reduce roadway capacity or create delay for motorists.

## Limitations

**Limited effectiveness as a stand-alone treatment:** Overhead flashing lights are not effective by themselves and should be paired with other treatments to reduce crashes and increase driver yield rates.

**Low motorist compliance:** Compared to RRFBs, overhead flashing lights have lower motorist compliance because they are not as visible.

## Complementary Treatments

Overhead flashing lights can be installed in conjunction with the following treatments:

- High visibility crosswalks
- Warning signage
- Advance stop/yield lines
- In-street pedestrian crossing signs
- Pedestrian-scale lighting
- Infrastructure treatments such as pedestrian refuge islands, curb extensions/bulb-outs, raised crosswalks, and road diets

## Design Considerations

Overhead flashing lights can be continuously flashing or intermittently flashing only when a pedestrian is present. For overhead flashing lights at crossing locations, intermittent flashing systems can result in higher driver yield rates because a driver can be reasonably sure a pedestrian is present when the lights are activated. Overhead flashing lights that indicate a school zone should be activated continuously during posted school zone times. Further design guidance can be referenced in MUTCD Section 4L.03.



# Crossing Design Elements: Enhanced Visibility Treatments

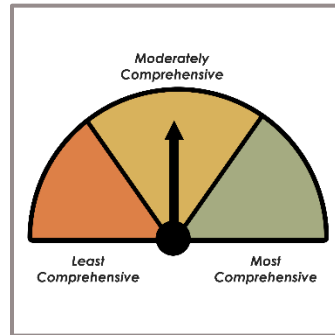
## Location/Context

As RRFBs have similar installation and maintenance costs and are a more effective treatment at increasing driver yield rates, RRFBs are generally recommended instead of overhead flashing lights when designing new crossings. **Overhead flashing lights should not be considered a replacement for an RRFB when determining an appropriate crossing treatment.**

However, existing overhead flashing lights can remain in place to supplement high visibility crosswalk markings and signage or to indicate school zones. Crosswalk markings and signage without an RRFB or PHB can be installed in locations with shorter crossing distances, lower vehicle speeds, and lower traffic volumes.

## Pedestrian-Scale Lighting

Pedestrian-scale lighting can help increase the visibility of pedestrians crossing at night and increase driver yield rates. Lighting should be placed between oncoming vehicles and the crossing location (FHWA, 2013).



Some level of illumination is required at all formal crossing locations. See DPM Section 7-4(M)(1)(ii) for illumination guidelines. Greater illumination is needed in areas with higher levels of pedestrian activity, including high-use trails, Centers, Main Street Corridors, and Premium Transit Station Areas.

## Benefits

**Reduce crashes:** Intersection lighting can reduce pedestrian crashes by 42% (FHWA, 2021).

**Increase comfort:** Pedestrian-scale lighting helps pedestrians feel safe and comfortable while walking at night.

## References

Local dark sky ordinances require shielded light fixtures to prevent light pollution. Integrated Development Ordinance (IDO) section 5-8(E)(1) lists requirements for pedestrian-scale lighting, including lighting levels, spacing, and height requirements. DPM section 7-4(M) contains additional standards for roadway lighting.

Figure 15: Pedestrian-Scale Lighting on Central Ave

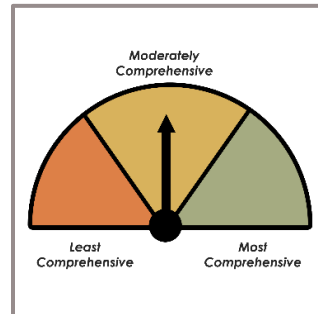


# Crossing Design Elements: Enhanced Visibility Treatments

## Rectangular Rapid Flashing Beacon

Rectangular rapid flashing beacons (RRFBs) mounted overhead or on the roadside can notify drivers that pedestrians are crossing the roadway.

An RRFB device includes amber LED flashing lights that are installed to enhance pedestrian crossing warning signs at unsignalized crosswalks. RRFBs can be continuously flashing, pedestrian-activated using manual pushbuttons, or activated by passive pedestrian detection using automated sensors. Flashing lights are positioned, below a pedestrian sign and above an arrow placard pointing to the crosswalk.



RRFBs should always be installed with pedestrian or bicycle warning signage and high visibility crosswalks.

### Benefits

**Reduce crashes:** RRFBs can reduce pedestrian crashes by up to 47% (NCHRP, 2017).

**Increase driver yield rates:** While yielding rates vary by city, studies show yield rates at RRFBs between 72% and 96% (Shurbutt & Houten, 2010). Another study saw yielding rates at night increase from 35% to 100% (NCHRP, 2016).

**Minimal impacts on traffic operations:** Because RRFBs are inactive when pedestrians are not present, they have minimal impacts on traffic operations and roadway capacity.

**Reduce crossing delay:** Because RRFBs are activated immediately, pedestrians do not need to wait to cross if drivers comply with the RRFB.

Figure 16: Rectangular Rapid Flashing Beacon on Multi-Lane Arterial



Source: Texas A&M Transportation Institute

### Limitations

**Over-use:** Over-using RRFBs may reduce their effectiveness (FHWA, 2021).

**Lower driver yield rates on wide roads:** On wide, high-speed, or high-volume roadways, RRFBs resulted in a wide range of driver yield rates (25% to 73%), indicating that the effectiveness of RRFBs may be limited in these contexts (NCHRP, 2006).

**Motorist compliance:** While RRFBs draw drivers' attention to a crosswalk, drivers do not always yield to pedestrians waiting to cross the street without full traffic signals or PHBs requiring them to come to a complete stop.

# Crossing Design Elements: Enhanced Visibility Treatments

## Complementary Treatments

The following treatments can be installed in conjunction with an RRFB:

- High visibility crosswalks
- Warning signage
- Advance stop/yield lines
- In-street pedestrian crossing signs
- Pedestrian-scale lighting
- Infrastructure treatments such as pedestrian refuge islands, curb extensions/bulb-outs, raised crosswalks, and road diets

Figure 17 provides an example of complementary treatments that can be installed with RRFBs, including warning signage, high visibility crosswalks, refuge islands, curb extensions, and advance yield lines.

## Design Considerations

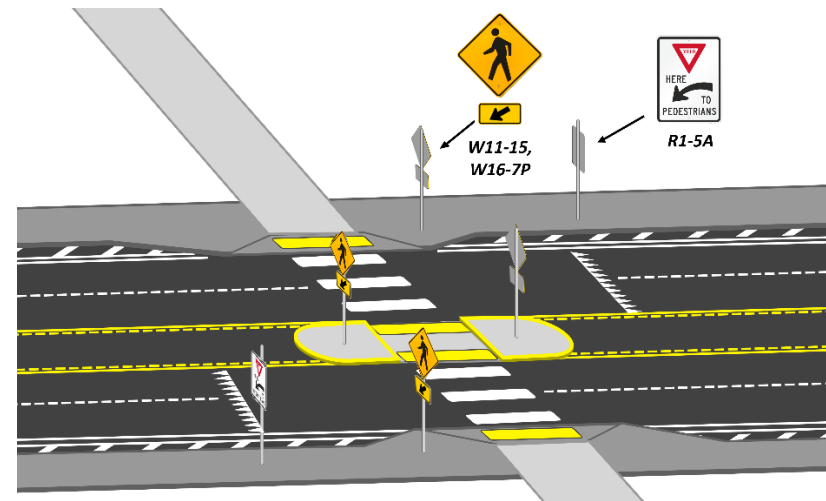
**Intermittent flashing vs continuously flashing:** Generally, intermittent flashing beacons result in greater driver yield rates than continuously flashing beacons. Intermittent flashing beacons are typically activated using a manual pushbutton or automated sensor. Because they do not flash constantly, drivers can be reasonably sure that a pedestrian is crossing the street when they are flashing (NCHRP, 2006).

**Uncontrolled locations:** FHWA guidance states that RRFBs shall not be installed at locations that are stop or yield-controlled unless the location is at a roundabout.

**Sign position:** If a roadway includes a center median, install the RRFB in the median as well as the sides of the roadway to increase visibility (FHWA, 2021).

**Overhead vs roadside mounted:** Overhead RRFBs can result in increased driver yield rates over roadside-mounted RRFBs (NCHRP, 2006).

Figure 17: RRFB with Complementary Treatments



## Location/Context

RRFBs are commonly installed at high-volume or high-speed intersections or at school crossings. While some jurisdictions use RRFBs at all multi-lane unsignalized crosswalks, others prioritize locations with significant pedestrian safety issues so as to not diminish their effectiveness (NCHRP, 2016; FHWA, 2013).

RRFBs are most appropriate at multi-lane crossings with speed limits less than 40 mph (FHWA, 2021).

# Crossing Design Elements: Signal Treatments

## Signal Treatments

Signalized crossing treatments are those that force vehicles to stop because of the presence of a traffic signal. The two most common types of signalized crossing treatments are full traffic signals and PHBs, also known as HAWK signals (see Figure 18 and Figure 19).

Signalized crossings can provide safety and comfort for pedestrians and bicyclists because they provide a clear regulatory message that brings traffic to a complete stop. Signalized crossings also increase the connectivity of bicycle and pedestrian networks.

While signalized crossings are generally safer than unsignalized crossings, long crossing distances and high vehicle speeds can still contribute to a hostile pedestrian environment. Infrastructure treatments (discussed later in this report) such as curb extensions, refuge islands, and road diets can greatly increase the comfort of signalized pedestrian crossings. Signal treatments are also generally high-cost and may impact traffic operations.

Figure 18: Crossing at Full Traffic Signal on Taylor Ranch Rd



Figure 19: Pedestrian Hybrid Beacon on Central Ave





# Crossing Design Elements: Signal Treatments

## Full Traffic Signal

Full traffic signals are standard traffic signals that generally have pedestrian signal heads and associated countdown timers. Countdown timers help communicate to pedestrians how much time is remaining in the walk phase, aiding pedestrians in making decisions about when they should cross the street to avoid being caught in the middle of an intersection.

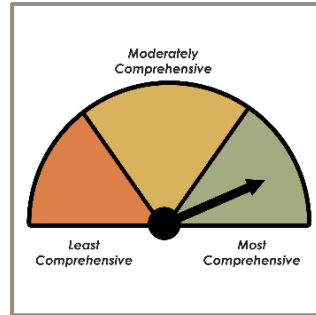


Figure 20: Traffic Signal on Lead Ave



## Appropriateness

Because the MUTCD requires an engineering study of traffic conditions, pedestrian characteristics, and physical characteristics for a full traffic signal to be installed, traffic signals are rarely selected as a crossing treatment unless there is also a traffic-related need for a signal. Full traffic signals are generally installed where enhanced levels of traffic control are needed for vehicular movement or to address critical safety issues. However, signals have the added benefit of bringing traffic to a complete stop for pedestrians to cross the street.

## Benefits and Limitations

Full traffic signals have high rates of motorist compliance and can reduce crashes by 33% (McGee et al., 2003). However, traffic signals need to be warranted per the MUTCD, which limits their application.

## Complementary Treatments

While full traffic signals provide a high level of vehicle control, they are not inherently safe for pedestrian/bicyclist crossings. Intersections can have multiple conflict points during the pedestrian walk phase if vehicles are permitted to make left and right turns at the same time.

Additional treatments that make intersection crossings safer and more comfortable by addressing conflict points include:

- Warning signage
- High-visibility crosswalk markings
- Advance stop/yield lines
- Pedestrian-scale lighting



## Crossing Design Elements: Signal Treatments

- Median refuge islands
- Leading pedestrian/bicycle intervals
- Right turn on red restrictions
- Curb extensions
- Raised crosswalks
- Road diets

### References

MUTCD section 4C describes warrants for traffic signal installation. Pedestrian crossing volume can be used as a warrant for installing a traffic signal; however, the pedestrian signal warrant can be difficult to meet if inhospitable conditions deter pedestrians from crossing. Other criteria that can justify the installation of a traffic signal include vehicle volume, peak hour traffic, school crossings, coordinated signal systems, crashes, traffic flow, and rail crossings.

The DPM recommends installing pedestrian crossings at all at-grade signalized intersections (see Section 7-4(A)(7)(iii)(b)). The DPM also recommends installing signalized pedestrian crossings at key intersections between arterials and collectors.

The DPM provides general guidance on the spacing of traffic signals (see Section 7-4(A)(6)). Outside of Comprehensive Plan Centers, traffic signals should not be spaced less than ¼-mile apart without approval from the City Engineer.

Signalized pedestrian crossings (i.e. full traffic signals or PHBs) should be provided at intervals recommended in DPM Table 7.4.41 and 7.4.42. Spacing depends on functional classification and Comprehensive Plan Center/Corridor designations.

### Pedestrian Hybrid Beacon/HAWK Signal

A pedestrian hybrid beacon (PHB) is a traffic control device commonly used to help pedestrians safely cross busy or higher-speed roadways at mid-block locations and uncontrolled intersections. PHBs result in higher vehicle yield rates than RRFBs because they clearly assign right of way and provide stop control for vehicles (FHWA, 2021).

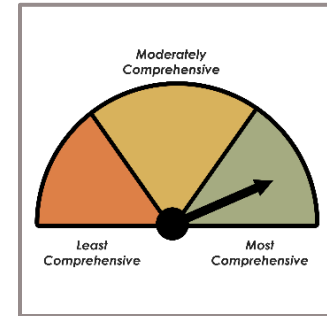


Figure 21: PHB on Lomas Blvd and Alvarado Dr



Source: City of Albuquerque

# Crossing Design Elements: Signal Treatments

## Benefits

The primary purpose of PHBs is to reduce crashes and improve driver yield rates to pedestrians.

**Driver yield rates:** Several studies have indicated that driver yielding rates at PHBs can be between 90 to 100 percent (NCHRP, 2006). In comparison to RRFBs or standard crosswalk signage, the steady red signal on PHBs provides a direct regulatory message that generally results in a more uniform response.

**Reduce crashes:** PHBs can reduce pedestrian crashes by 55%, total crashes by 29%, and serious injury and fatal crashes by 15% (FHWA, 2021). Crash analyses in Seattle, WA have documented that PHBs can reduce vehicle-vehicle crashes as well as pedestrian-vehicle conflicts (NCHRP, 2006).

## Limitations

**Cost:** The primary limitation of PHBs is their cost. While less expensive than installing a full traffic signal, PHBs generally cost between \$200,000 and \$250,000.

**Siting limitations:** PHBs should not be installed within 100 feet of stop or yield controlled intersections (MUTCD 4F.02.4) and need to be installed in locations with adequate sight distance.

## Complementary Treatments

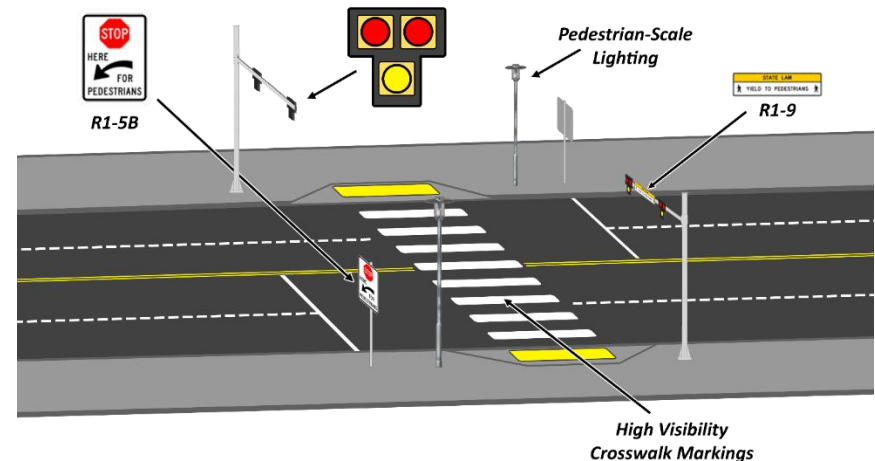
The MUTCD requires the following treatments at PHB locations (see Figure 22):

- Crosswalks (section 4F.01)
- Signage
- Advance stop lines

Other optional crossing treatments that can complement a PHB include:

- Pedestrian-scale lighting
- Infrastructure treatments such as pedestrian refuge islands, curb extensions/bulb-outs, and road diets

Figure 22: PHB Complementary Crossing Treatments



## Design Considerations

**Light cycles:** PHBs remain dark until activated by a pedestrian (normally with a push-button). Once activated, they cycle through several signal phases: flashing yellow, steady yellow, steady red, and flashing red. The flashing red phase is referred to as the “wig-wag” phase and allows vehicles to proceed after stopping if the crosswalk is clear.

**Bicycle considerations:** PHBs can be especially effective at facilitating trail or bicycle boulevard crossings because low volume

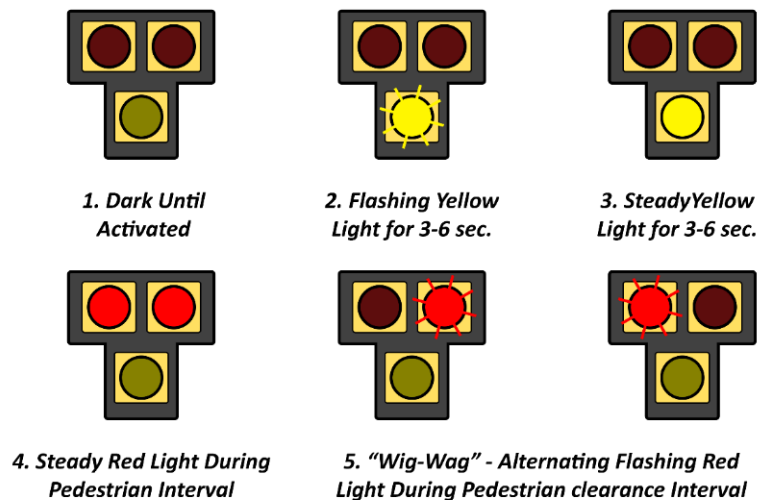
## Crossing Design Elements: Signal Treatments

roadways and trails are unlikely to meet warrants for full traffic signals. PHBs can be designed to improve level of service for bicyclists by providing bicycle signal heads and bicycle signal detectors. However, as bicyclists can enter the intersection more quickly than pedestrians, the wig-wag phase can introduce conflict points if vehicles fail to see a bicyclist before proceeding through the crossing. For this reason, the steady red light should be longer and the wig-wag phase should be shorter at PHBs with high volumes of crossing bicyclists (NACTO, 2014).

### *Location/Context*

PHBs can be installed at intersections or mid-block locations. While PHBs can be considered for most roadway contexts, they are most useful on high-speed, high-volume multi-lane roadways. Roadways where multiple-threat crashes are a concern and roadways with speed limits of 40 mph or greater should be prioritized for the installation of PHBs. PHBs can also be considered for areas with high populations of vulnerable road users, including children, people with disabilities, and older adults.

Figure 23: PHB Signal Cycle



# Crossing Design Elements: Infrastructure Treatments

## Infrastructure Treatments

Infrastructure treatments greatly improve the safety and comfort of crossing locations. Infrastructure treatments that reduce vehicle speeds and shorten crossing distance can also reduce the need for traffic signals, PHBs, and RRFBs. Figure 24 and Figure 25 show examples of infrastructure treatments at crossing locations.

The infrastructure treatments considered in this guide include:

- Raised crosswalks
- Curb extensions/bulb-outs
- Pedestrian refuge islands
- Grade-separated crossings
- Road diets

Figure 24: Crossing with Road Diet, Curb Extension and Refuge Island



Figure 25: Raised Crosswalk with Curb Extension and In-Street Pedestrian Crossing Sign



# Crossing Design Elements: Infrastructure Treatments

## Raised Crosswalks

Raised crosswalks are crosswalks placed on top of a speed table that allow pedestrians to cross a street at the same level as the sidewalk. These treatments should be placed on low-speed, low-volume roads, though they may be placed on side streets that intersect major roads to help facilitate crossings (see Figure 26). Raised crosswalks can be installed at mid-block locations or at intersections.

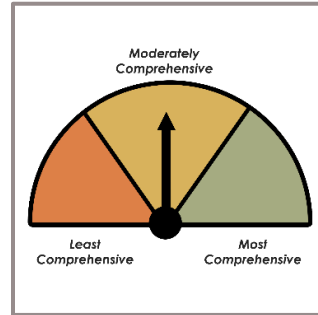


Figure 26: Raised Crosswalk on Alameda Drain Trail



## Benefits

**Reduce crashes:** Raised crosswalks can reduce vehicle/pedestrian crashes by 46% on local roads.

**Increases yield rates:** A study in Cambridge MA found yielding rates increased from 10% to 55% after installing raised crosswalks (FHWA, 2013).

**Traffic calming:** Raised crosswalks serve as a speed table and can reduce vehicle speeds by 6 to 11 mph.

**Increases visibility:** Raised crosswalks place pedestrians directly in a driver's field of vision.

## Limitations

**Limited roadway contexts:** Raised crosswalks should only be installed on roadways with low speeds and traffic volumes.

**Emergency response and transit routes:** As large vehicles may not be able to navigate raised crosswalks, they should not be installed on emergency response routes or transit routes.

## Complementary Treatments

Raised crosswalks can be complemented by:

- High-visibility crosswalk markings
- Warning signage
- Advance stop/yield lines
- In-street pedestrian crossing signs
- Pedestrian-scale lighting
- RRFBs
- Infrastructure treatments such as curb extensions/bulb-outs and road diets



# Crossing Design Elements: Infrastructure Treatments

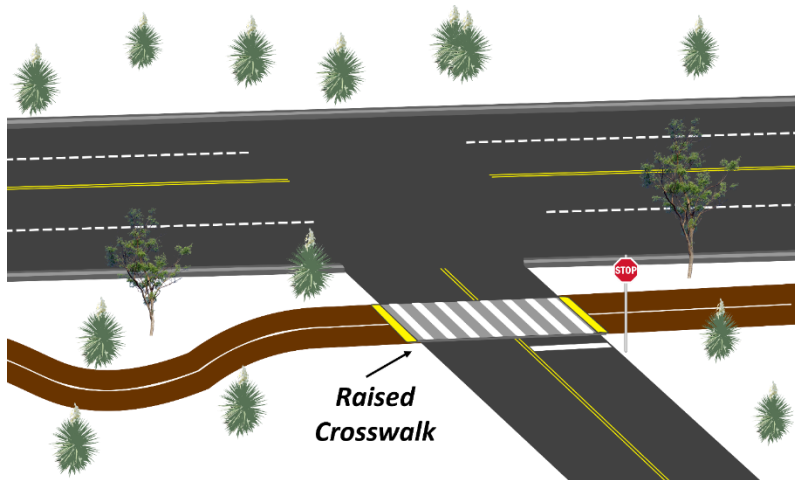
## Design Considerations

**Width:** Raised crosswalks are generally at least 10 ft wide and span the entire width of the street.

**Stormwater runoff:** Raised crosswalks can reduce the hydraulic capacity of roadways and may require a hydraulic analysis to ensure that stormwater runoff will not exceed curb heights.

**Setback from major roads:** If installed on a local road intersecting with a major road, raised crosswalks should be set back from the main road to allow turning vehicles to see pedestrians. Additionally, tighter curb return radii and/or deceleration lanes can help slow turning traffic and increase driver yield rates. Figure 27 shows an example of a raised crossing on a sidepath parallel to a major street.

Figure 27: Raised Crosswalk on Side Street



## Location/Context

Raised crosswalks are generally only appropriate on low speed, local roads (i.e. 1-3 lanes, speed limits of 30 mph or under, and ADT <9,000 [NMDOT, 2020]). They may be applied on sidepaths adjacent to major roadways (see Figure 27).

## References

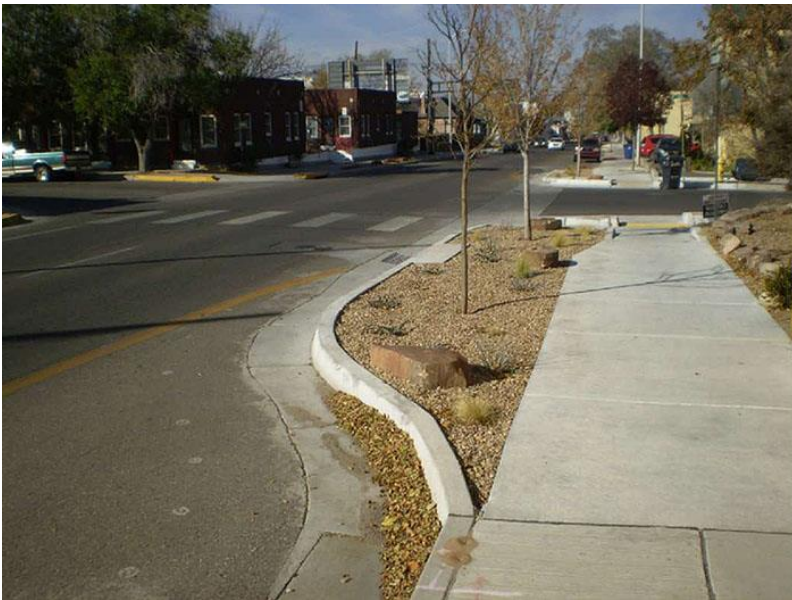
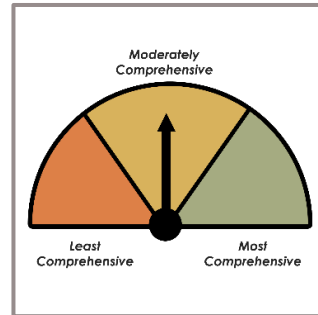
MUTCD Section 3B.25 includes instructions for appropriate pavement markings and signage on and approaching a speed hump.

The City of Albuquerque's Neighborhood Traffic Management Program includes speed humps and tables in its toolkit of traffic calming treatments for local roads.

# Crossing Design Elements: Infrastructure Treatments

## Curb Extensions/Bulb Outs

Curb extensions or bulb-outs extend the pedestrian area into the roadway at intersections in order to shorten the distance required to cross a street, encourage slower driving, and reduce turning speeds.



Source: FHWA Traffic Calming E-Primer

## Benefits

**Reduces crossing distance:** By extending the pedestrian realm, curb extensions reduce the distance required to cross a street and the amount of time a pedestrian is exposed to vehicle traffic.

**Increases visibility of those waiting to cross:** Curb extensions position pedestrians in a visible location to drivers, which can increase driver yield rates.

**Traffic calming:** By narrowing the roadway, curb extensions cause drivers to slow down and look for pedestrians. Curb extensions also tighten turn radii, which slows turning vehicles.

**Creates space for landscaping/lighting:** Curb extensions create additional space in the pedestrian realm for landscaping or lighting, which can further increase pedestrian visibility.

## Limitations

**Right-of-way constraints:** The application of curb extensions may be limited along roadways with constrained right-of-way.

**Bicycle lanes:** If positioned in a bicycle lane, curb extensions can force bicyclists to merge with vehicle traffic, which introduces conflict points.

**Reduces parking:** Curb extensions are often built in the parking lane, which reduces the number of available parking spaces.

**Vehicular delay:** Curb extensions can increase delay for vehicles at locations with high volumes of turning traffic.

# Crossing Design Elements: Infrastructure Treatments

## Complementary Treatments

Curb extensions can be paired with:

- High-visibility crosswalk markings
- Warning signage
- Advance stop/yield lines
- In-street pedestrian crossing signs
- Pedestrian-scale lighting
- RRFBs
- PHBs
- Infrastructure treatments such as pedestrian refuge islands, raised crosswalks, and road diets

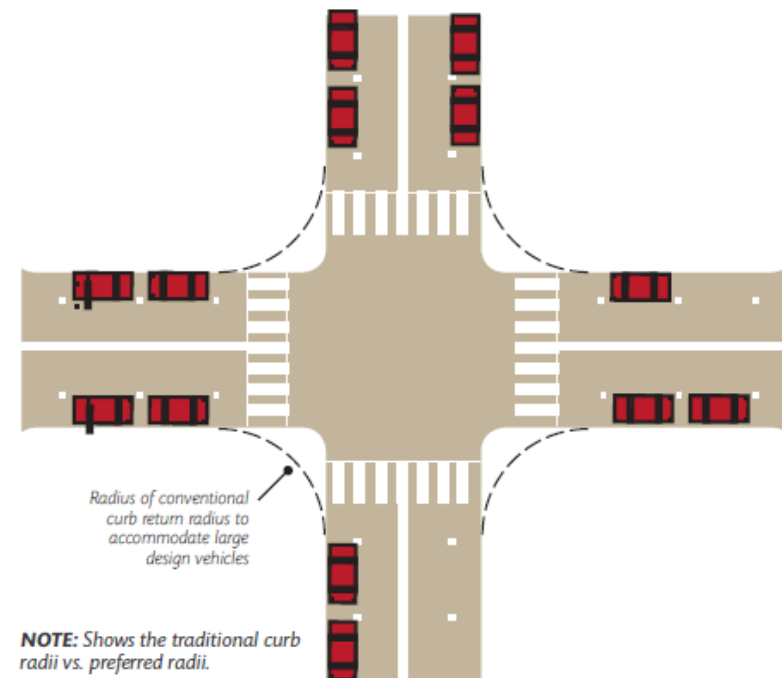
## Design Considerations

**Turn radii:** Curb extensions should be designed with a wide enough turn radius for emergency vehicles and buses (see Figure 28). DPM Table 7.4.66 provides recommended curb return radii based on Comprehensive Plan Center and Corridor designations. The DPM recommends tighter turn radii in Centers and Premium Transit Station Areas and along Multi-Modal, Main Street, and Major Transit Corridors.

## Location/Context

Curb extensions are highly versatile and can be implemented on almost any street type regardless of speed limit or traffic volumes, including local streets, collectors, and arterials. Curb extensions can be placed on all corners of an intersection or only one corner. They are often built on streets with on-street parking but can be implemented along streets without parking if there is enough right-of-way for vehicle travel lanes and/or bike lanes to remain unimpeded.

Figure 28: DPM Figure 7.2.95 Standard Curb Return Radii Diagram



# Crossing Design Elements: Infrastructure Treatments

## Pedestrian Refuge Islands

Pedestrian refuge islands are raised areas in the middle of a roadway that reduce crossing distance and facilitate two-stage crossings by giving pedestrians a place to wait for an adequate gap between vehicles before finishing the second leg of the crossing.

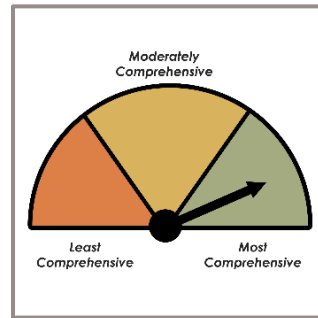


Figure 29: Pedestrian refuge island with high-visibility crosswalk and signage



Source: BikePedImages.org – Katy Lang

## Benefits

**Reduce crashes:** Pedestrian refuge islands can reduce crash rates by 46% at marked crosswalks and 39% at unmarked crosswalks. They can also reduce motor vehicle crashes by 14% (FHWA Safety Program, n.d.).

**Reduces crossing delay:** By dividing a crossing into two stages, the amount of vehicle traffic and number of lanes to navigate at a time is effectively split in half. This reduces delay for people crossing as they do not need to wait as long for a gap in traffic.

**Reduces crossing distance:** By providing space for pedestrians in the median, refuge islands reduce the distance required to cross a street and the amount of time a pedestrian is exposed to vehicle traffic.

**Traffic calming:** Refuge islands visually narrow the roadway, which can reduce vehicle speeds.

**Creates space for landscaping and lighting:** Landscaping and/or pedestrian-scale lighting can be added to refuge islands to increase the visibility of pedestrians crossing.

## Limitations

**Vehicular access:** Pedestrian refuge islands placed in a center turn lane limit vehicle left turns in that location.

## Complementary Treatments

Pedestrian refuge islands can be installed to complement a full traffic signal or PHB or can be installed at unsignalized locations. Refuge islands can be paired with:

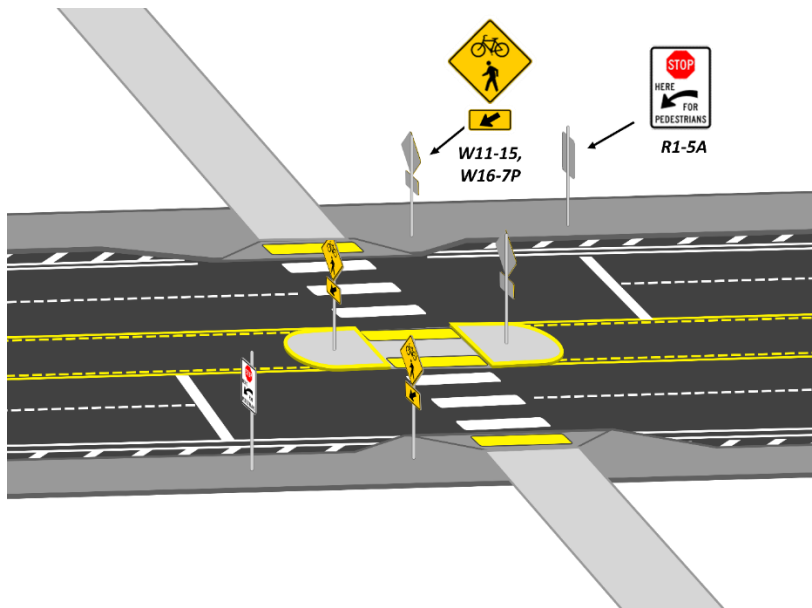
- High-visibility crosswalk markings

# Crossing Design Elements: Infrastructure Treatments

- Warning signage
- Advance stop/yield lines
- In-street pedestrian crossing signs
- Pedestrian-scale lighting
- RRFBs
- PHBs
- Infrastructure treatments such as curb extensions, raised crosswalks, and road diets

Figure 30 shows examples of treatments that can complement a pedestrian refuge island, including curb extensions, signage, advance stop/yield lines, and high-visibility crosswalk markings.

Figure 30: Pedestrian Refuge Island Complementary Treatments



## Design Considerations

**Placement:** Pedestrian median islands may be located at signalized or unsignalized intersections or at mid-block crossings.

**Width:** Per the DPM, pedestrian medians should be at least six feet wide to allow enough space for pedestrians and bicyclists to wait comfortably.

**Vertical elements:** The DPM recommends a raised curb or other vertical elements to separate the island from vehicle traffic.

**ADA accessibility:** Pedestrian medians should be ADA accessible and include detectable warning signals.

## Location/Context

The DPM recommends installing refuge islands on roads with three or more lanes, traffic volumes over 12,000 ADT, and/or speeds over 30 mph.

Pedestrian medians may be especially effective at the following locations:

- In areas with vulnerable populations who may take a longer time to cross the street, including children, people with mobility-related disabilities, and older adults
- Along designated bicycle routes
- Where there are high-volume pedestrian and/or bicycle crossings



# Crossing Design Elements: Infrastructure Treatments

## Grade-Separated Crossings

Grade-separated crossings allow bicyclists/pedestrians to cross a street by passing underneath it via a tunnel or crossing over it via a bridge. This type of crossing eliminates pedestrian/bicyclist interactions with motor vehicles at crossing locations, providing a safe and comfortable crossing experience and improving multi-modal connectivity. They can be especially useful where trail crossings intersect with major arterials or highways, as they allow trail users to pass through high-speed, high-volume areas without experiencing intersection conflict points.

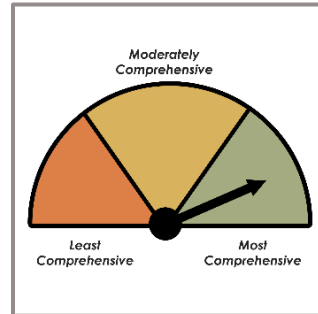


Figure 31: Grade-Separated Underpass on North Diversion Trail



Source: [primepassages.com](http://primepassages.com)

Figure 32: Grade-Separated Bridge on Paseo del Norte Trail



Source: [primepassages.com](http://primepassages.com)

## Benefits

**Safety and comfort:** Grade-separated crossings provide high levels of safety and comfort at crossings by eliminating interactions with vehicles.

**Minimize pedestrian/bicyclist delay:** Grade-separated crossings minimize delay by allowing pedestrians/bicyclists to cross without waiting for a traffic signal or for vehicles to yield at crosswalks.

**No impact on traffic operations:** By completely separating bike/pedestrian crossing activity, grade-separated crossings allow bicyclists, pedestrians, and motorists to traverse an intersection without causing delays for other users.

# Crossing Design Elements: Infrastructure Treatments

---

## Limitations

**Increase travel distance:** Grade-separated crossings can add distance and delay if they are positioned out of the direction of travel. Pedestrians are especially sensitive to out-of-direction travel and may choose to risk crossing a street at-grade if the crossing location is inconvenient. Studies indicate that 95% of pedestrians will use a grade-separated crossing if it does not add distance to their route, but if using the crossing takes 50% longer than crossing at-grade, very few people will use the facility (Mead et al., 2014). Generally, grade-separated crossings within an existing trail network see higher usage because they do not create out-of-direction travel.

**Cost:** Grade-separated crossings are the most expensive crossing treatment of available options. Traffic calming with enhanced pedestrian crossings can be a far more cost-effective intervention and, in many cases, contributes to a more convenient and connected pedestrian network.

## Design Considerations

**Choosing between above or below-grade crossings:** Whether a grade-separated crossing should be above or below the roadway depends on its site characteristics and costs. Bicyclists tend to prefer crossing below a roadway because a tunnel or underpass allows them to build up speed and momentum to ascend on the other side. Additionally, below-grade crossings generally allow for gentler ramp slopes than above-grade crossings. However, below-grade crossings have additional considerations and maintenance needs due to drainage, lighting, and possible graffiti removal (FHWA, 2013).

**ADA compliance:** Grade-separated crossings should be ADA compliant with ramps for wheelchair access (generally a 5% grade). For above-grade crossings, long ramps may be needed to meet ADA requirements. Stairs can be considered in addition to ramps where ramps add significant travel distance. More information on ADA compliant design can be found in the Public Rights of Way Accessibility Guidelines (PROWAG).

**Wayfinding:** Pedestrians/bicyclists are more likely to go out of the direction of travel to use grade-separated crossings if wayfinding signage is provided.

## Location/Context

Grade-separated crossings should be considered in the following contexts:

- Where there is a need to provide bicyclist/pedestrian connectivity across rivers, railroads, or highways
- Multi-use trails or other off-road paths
- High volume, high speed roadways

## Crossing Design Elements: Infrastructure Treatments

### Road Diets

A road diet encourages slower driving speeds and re-allocates space to other modes of travel. The DPM distinguishes between a **road reconfiguration**, which reduces the number of vehicle travel lanes, and **road restriping and narrowing**, which maintains the same number of travel lanes but narrows general purpose lanes to create space for other modes. Road diets that remove travel lanes but add two-way left turn lanes can have operational benefits for auto traffic because the center turn lane reduces delay from left-turning vehicles (FHWA, 2014).

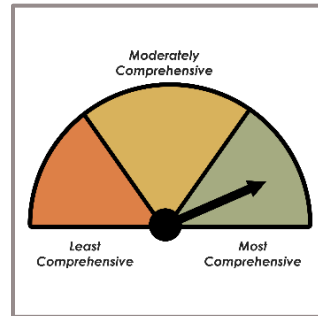
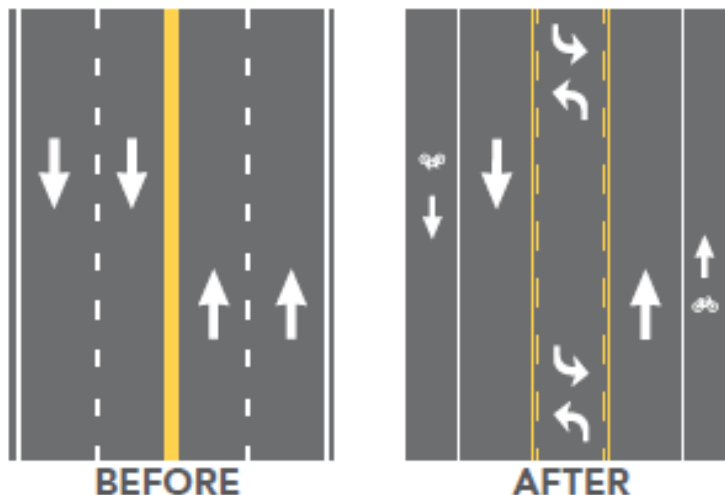


Figure 33: Example of a Road Diet



Source: Federal Highway Administration

### Benefits

**Reduces crossing distance:** By removing vehicle travel lanes, road diets decrease crossing distance and reduce the need for signalized crossings or RRFBs.

**Reduce crashes:** Road diets have been shown to decrease crashes by 19-47% (FHWA, 2014).

**Multi-modal connectivity:** Road diets increase space for bike lanes, sidewalks, transit stops, and street amenities.

**Traffic calming:** Road diets can reduce vehicle speeds and speed differentials by narrowing the roadway and reducing the number and width of travel lanes. On roads with only one travel lane in each direction, speeds are limited by the lead vehicle, which creates a more uniform and slower speed along the roadway (FHWA, 2014).

**Low cost:** Many road diets can be achieved through restriping, which has low costs and can be done at the same time as regular roadway maintenance.

### Limitations

**May increase congestion:** If a road diet is implemented along a roadway with traffic volumes approaching its designed capacity, removing general purpose lanes may increase congestion. However, congestion also serves to slow travel speeds and can encourage the adoption of other modes of transportation.

# Crossing Design Elements: Infrastructure Treatments

## Complementary Treatments

Treatments that can complement a road diet include:

- High visibility crosswalk markings
- Warning signage
- Advance stop/yield lines
- In-street pedestrian crossing signs
- Pedestrian-scale lighting
- RRFBs
- PHBs
- Infrastructure treatments such as pedestrian refuge islands, curb extensions/bulb-outs, and raised crosswalks

Figure 34 and Figure 35 demonstrate an example of a crossing before and after a road diet has been implemented.

## Design Considerations

**Street element widths:** General purpose lanes can be narrowed to 10-11' without impacting traffic operations. DPM Table 7.2.29: Street Element Dimensions recommends travel lane width for roadways based on functional classification and Comprehensive Plan Center and Corridors Designations. The table also recommends the widths of other street design elements, including sidewalks, bike lanes, and buffer zones which should be incorporated into a road diet.

Figure 34: Crossing at Zuni Rd Before Road Diet



Figure 35: Crossing at Zuni Rd After Road Diet



## Crossing Design Elements: Infrastructure Treatments

---

### *Location/Context*

Road diets can be applied on any roadway with a designed capacity higher than actual vehicle traffic volumes. The Mid-Region Council of Governments (MRCOG) produces a Potential Road Diets Candidates Map that shows regional roadways with excess capacity. It defines road diet candidates based on the number of general purpose travel lanes and traffic volume along a corridor. On roadways with excess capacity, removing general purpose lanes may not have a significant impact on traffic operations or congestion.

Road diets can also be implemented along roadways with traffic volumes that are approaching their designed capacity if there is a need for improved multi-modal facilities or identified safety issues along the roadway. Additional congestion may occur when a road diet is applied where traffic volumes exceed the roadway capacity. In these cases, motorists may choose to drive along another route, travel during non-peak hours, switch modes, or forgo unnecessary trips. Decision-makers should consider whether parallel facilities have the capacity to absorb some trips that might be redistributed to other corridors when a road diet is implemented.

### *Crossing Design Elements Summary*

Enhanced visibility treatments, signal treatments, and infrastructure treatments each have unique benefits and limitations. In general, more comprehensive treatments are more costly and/or have more significant impacts on traffic operations. However, more comprehensive treatments also have greater benefits for increasing the comfort and safety of a crossing location.

Table 4 summarizes the benefits and limitations of each crossing treatment. Table 5 summarizes complementary techniques for each crossing treatment to assist in determining which treatments can be combined to create a holistic design for a crossing location.



# Crossing Design Elements: Summary Tables

Table 4: Benefits and Limitations Summary Table

		Enhanced Visibility							Signal		Infrastructure				
		Warning Signage	High Visibility Crosswalk Markings	Advance Stop / Yield Lines	In-Street Pedestrian Crossing Signs	Overhead Flashing Lights	Pedestrian-Scale Lighting	RRFB	Full Traffic Signal	PHB	Raised Crosswalks	Curb Extensions	Pedestrian Refuge Islands	Grade-Separated Crossings	Road Diets
Benefits	Increases Visibility	X	X	X	X	X	X	X		X	X	X			
	Education	X			X										
	Increases Yield Rates		X					X	X	X	X				
	Reduces Crashes		X	X			X	X	X	X	X		X	X	X
	Traffic Calming				X						X	X	X		X
	Increases Comfort						X		X	X	X	X	X	X	X
	Minimal Impacts on Traffic	X	X	X	X	X	X	X						X	
	Reduces Crossing Delay							X					X	X	
	Reduces Crossing Distance											X	X		X
	Creates Space for Amenities											X	X		X
	Low Cost	X	X	X	X										X
	Increases Multi-Modal Connectivity								X	X				X	X
Limitations	Not Effective as Stand-Alone Treatment	X	X	X	X	X	X								
	Maintenance		X	X	X		X							X	
	Motorist Compliance			X		X		X							
	Can Impact Parking			X								X			
	Limited Effectiveness on Large Roads	X	X		X	X					X				
	High Cost								X	X				X	
	Increases Crossing Travel Distance													X	
	Impacts Bicycle Lanes											X			
	Impacts Traffic Operations								X	X	X	X	X		X
	Siting Limitations								X	X		X	X	X	

# Crossing Design Elements: Summary Tables

Table 5: Complementary Treatments Summary Table

		Enhanced Visibility							Signal		Infrastructure				
		Warning Signage	High Visibility Crosswalk Markings	Advance Stop/Yield Lines	In-Street Pedestrian Crossing Signs	Overhead Flashing Lights	Pedestrian-Scale Lighting	RRFB	Full Traffic Signal	PHB	Raised Crosswalks	Curb Extensions	Pedestrian Refuge Islands	Grade-Separated Crossings	Road Diets
Complementary Techniques	Warning Signage		X	X	X	X	X	X	X	X	X	X	X		X
	High Visibility Crosswalk Markings	X		X	X	X	X	X	X	X	X	X	X		X
	Advance Stop/Yield Lines	X	X		X	X	X	X	X	X	X	X	X		X
	In-Street Pedestrian Crossing Signs	X	X	X		X	X	X			X	X	X		X
	Pedestrian-Scale Lighting	X	X	X	X	X		X	X	X	X	X	X	X	X
	RRFB	X	X	X	X		X				X	X	X		X
	PHB	X	X	X	X		X					X	X		X
	Raised Crosswalks	X	X	X	X	X	X	X	X			X	X		X
	Curb Extensions/Bulb Outs	X	X	X	X	X	X	X	X	X	X		X		X
	Pedestrian Refuge Islands	X	X	X	X	X	X	X	X	X		X			X
	Road Diets	X	X	X	X	X	X	X	X	X	X	X	X		

## Crossing Applications & Roadway Context

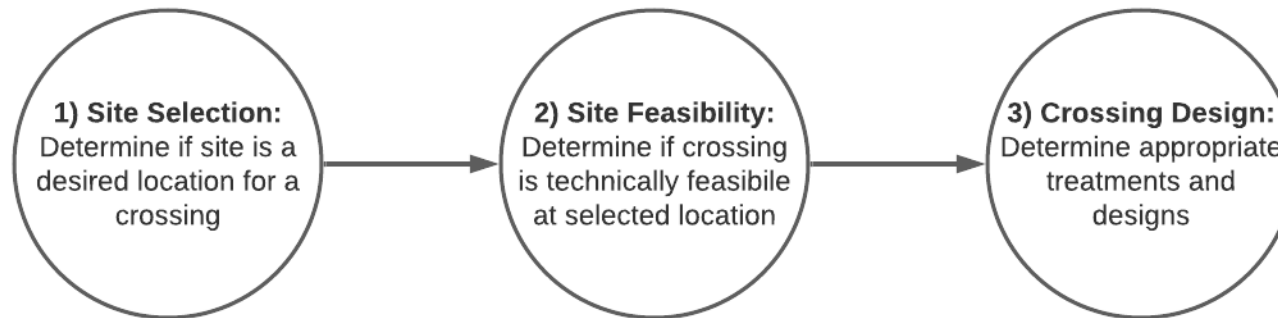
The following section provides guidance on the selection and application of bicycle and pedestrian crossings. **Step 1** outlines a process for determining if a site is an appropriate and/or desired location for a crossing. Criteria include Comprehensive Plan designations, crash and safety factors, proximity to other crossing locations, proximity to transit, presence of pedestrian generators, and whether the crossing is located along a multi-use trail.

**Step 2** provides guidance on the technical feasibility of a crossing location, and considers sight distances, proximity to cross-streets, and whether driver yielding behavior is desired.

After a site has been selected and determined to be a feasible location for a crossing, appropriate crossing treatments can be selected. **Step 3** recommends crossing design treatments, including enhanced visibility crosswalks, rectangular rapid flashing beacons, and pedestrian hybrid beacons. Guidance on crossing treatment applications is based on roadway factors such as the number of lanes a pedestrian must cross at a time, posted speed limit, and average daily traffic (ADT).

Figure 36 demonstrates the process for selecting a crossing location and appropriate treatments.

Figure 36: Three Step Flow Chart for Crossing Selection



# Crossing Applications & Roadway Context

## Step 1: Site Selection

### City of Albuquerque Guidance

The first step in the decision-making process for adding a new crossing is determining the appropriateness of a particular location. The Albuquerque/Bernalillo County Comprehensive Plan and DPM identify the general desirability of crossing locations based on Center and Corridor designations, the spacing between crossings, and other factors. Specific crossing locations may be based on the presence of transit stops, trails that intersect with a major roadway, and the presence of pedestrian generators.

Desired spacing for pedestrian crossings by Center and Corridor type are provided in Section 7-4(A)(7): Designated Pedestrian Crossings of the DPM. For a map of Centers and Corridors designations, reference the Albuquerque/Bernalillo County Comprehensive plan or the interactive Comprehensive Plan map on the City's website.

#### Key Considerations in Determining the Appropriateness of a Pedestrian Crossing

- Center or Corridor Designation
- Spacing Between Crossings
- Transit Stops
- Multi-use Trails
- Pedestrian Generators
- Identified Safety Concerns

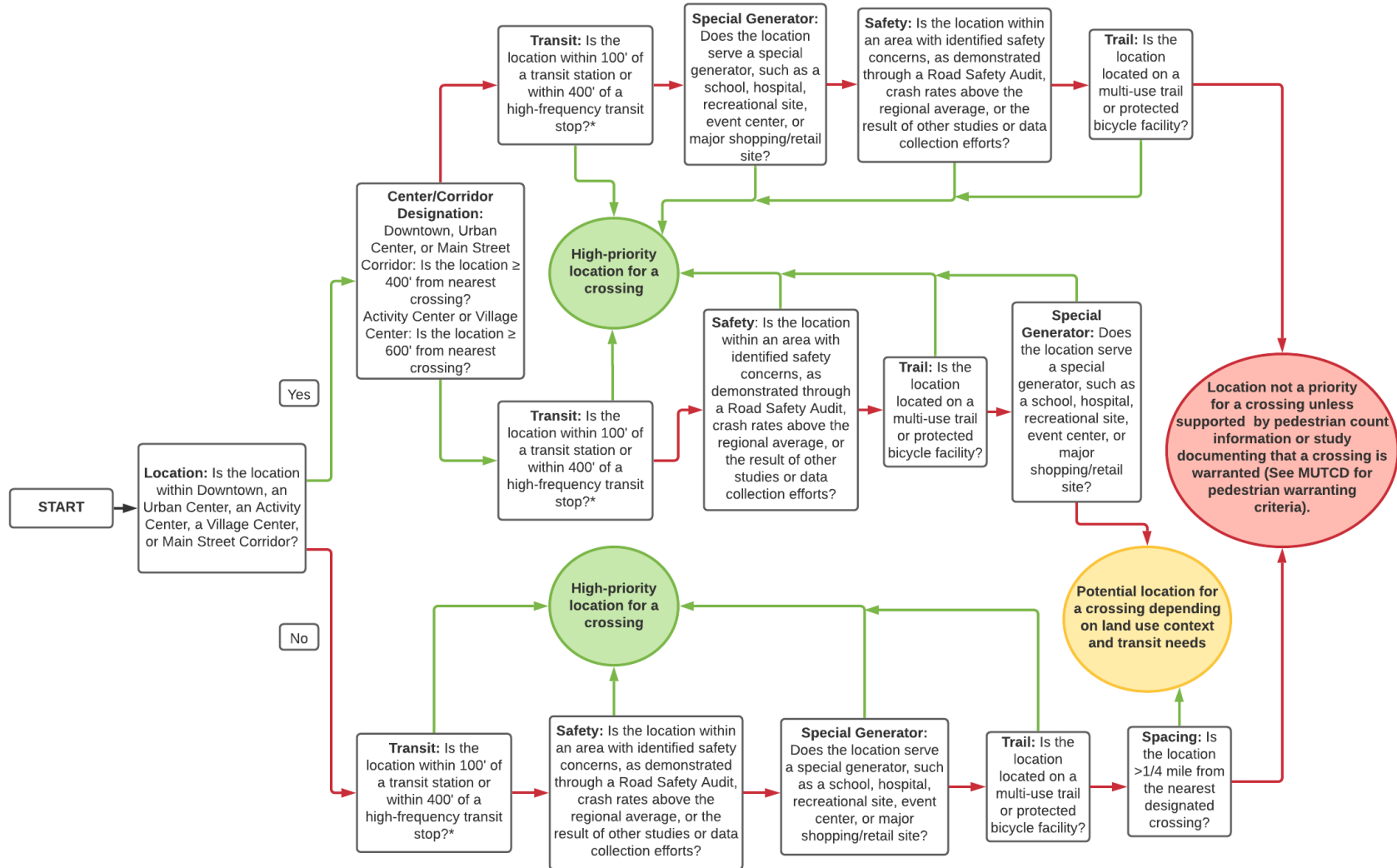
### Pedestrian Crossing Warranting Criteria

The MUTCD includes criteria for pedestrian volume warrants to install a PHB or full traffic signal. Warranting studies are required for installation of a full traffic signal. However, for PHB installation, MUTCD warranting criteria are guidelines rather than standards and are therefore not legally required. A warranting study is not needed to install a PHB if a crossing location meets site selection criteria in Step 1 (see Figure 36); however, a warranting study may be conducted at locations that do not meet general policy guidance for a crossing facility.

Figure 37 summarizes the DPM guidance in a flow chart that can be used to determine whether a location is a priority for installing crossing treatments.

# Crossing Applications & Roadway Context

Figure 37: Site Selection Flowchart



\*High-frequency is defined as transit service at least every 30 minutes during normal operating hours.



# Crossing Applications & Roadway Context

## Step 2: Site Feasibility

The second step in the decision-making process is determining whether the site is technically feasible for building a new crossing. Technical feasibility factors include distance from existing crossings and intersections and sight distance. Figure 38 is a flowchart that that can be used to determine if it is feasible to install a crossing at a particular location.

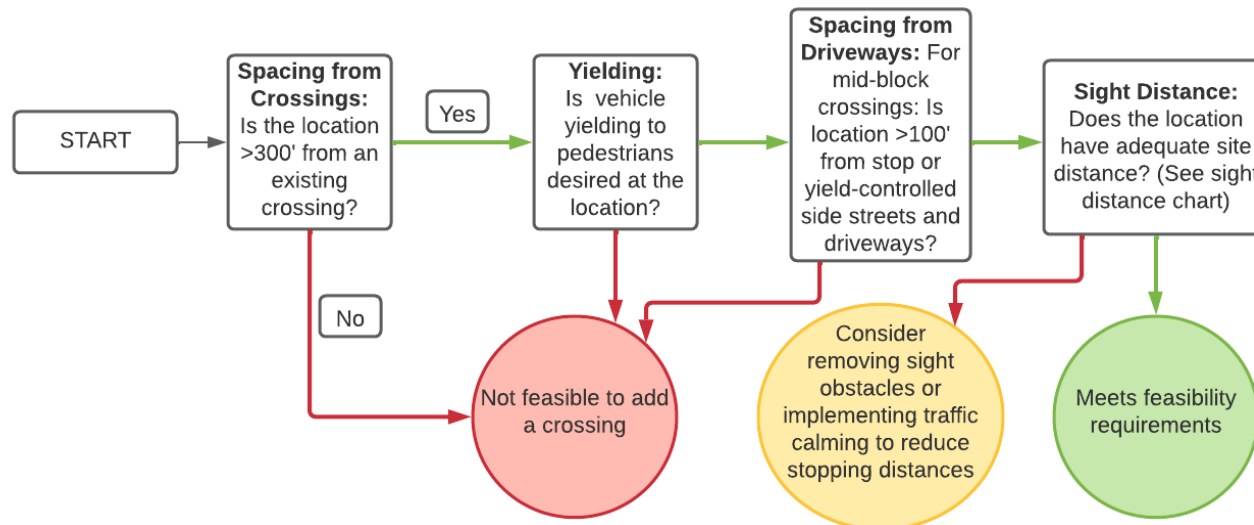
Another factor that impacts site feasibility is whether drivers yielding to pedestrians is desired. In New Mexico, drivers are legally required to yield to pedestrians in striped crosswalks. In some locations where stopping for pedestrians could create dangerous

conditions for other road users, it may not be feasible to install crosswalks.

Table 6: DPM Table 7.4.64 Minimum Stopping Sight Distance

TABLE 7.4.64 Minimum Stopping Sight Distance							
Design Speed (MPH)	Upgrades			Flat	Downgrades		
	9%	6%	3%	0%	-3%	-6%	-9%
25	140 ft.	145 ft.	150 ft.	155 ft.	160 ft.	165 ft.	175 ft.
30	180 ft.	185 ft.	200 ft.	200 ft.	205 ft.	215 ft.	230 ft.
35	225 ft.	230 ft.	240 ft.	250 ft.	260 ft.	275 ft.	290 ft.
40	270 ft.	280 ft.	290 ft.	305 ft.	315 ft.	335 ft.	355 ft.
45	320 ft.	330 ft.	345 ft.	360 ft.	380 ft.	400 ft.	430 ft.
50	375 ft.	390 ft.	405 ft.	425 ft.	450 ft.	475 ft.	510 ft.

Figure 38: Site Feasibility Flowchart



# Crossing Applications & Roadway Context

## Step 3: Crossing Design Selection

Once a site has been chosen and determined to be a feasible location for a crossing, appropriate crossing treatments can be selected. Crossing designs vary based on the following conditions:

- Level of traffic (ADT)
- Posted speed limit (MPH)
- Number of lanes a pedestrian must cross at a time

As a general rule, crossing designs should have increased visibility features and increased levels of vehicle control as speeds, traffic volumes, and roadway width increase.

Enhanced crosswalks with high visibility pavement markings and signage are appropriate for streets with lower volumes, speeds, and number of lanes. For wider, busier roads, more comprehensive designs are needed to draw motorists' attention to the crossing and encourage them to stop or yield to people crossing. RRFBs are generally appropriate for roads where speed limits are 35 mph or lower or where pedestrians need to cross only one or two lanes at a time. For roads with higher speed limits and more lanes to cross, a PHB or other traffic signal where vehicles must come to a complete stop is the minimum recommended crossing treatment.

## Methodology

The recommendations in this report are adapted from the FHWA *Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations*, which compiled recommendations based on the MUTCD and studies of safety and driver compliance at crossing locations. The FHWA guidance specifically recommends crossing treatments

based on a roadway's number of vehicle travel lanes, posted speed limits, and average daily traffic (ADT).

This report makes the following changes to the FHWA's guidance to adapt it to an Albuquerque context:

- **Number of Crossing Lanes:** Instead of total vehicle travel lanes, this report uses the total number of lanes a pedestrian must cross at a time to calculate the appropriate crossing treatment. For example, a four-lane road with no refuge island requires a pedestrian to cross all four lanes at a time, and the treatments recommended in the four-lane category should be referenced. However, if a refuge island were installed, a pedestrian would only need to cross two lanes at a time and the two-lane category should be referenced.
- **ADT per Crossing Stage:** ADT is also adjusted to reflect the traffic volume a pedestrian will encounter on each stage of the crossing. If a pedestrian must cross both directions of travel at a time, total ADT should be used to determine the crossing design. However, if a refuge island separates the crossing into two stages, ADT should be divided in half to reflect the traffic volume a pedestrian will encounter on each stage of the crossing.

The purpose of using crossing lanes and ADT per crossing stage is to encourage the use of refuge islands, road diets, and speed limit reductions, which can dramatically improve pedestrian safety while reducing the need for more costly interventions such as PHBs. The adjustments also provide additional nuance to the FHWA guidance for Albuquerque's wider arterial roadways. See the appendices for a list of additional changes to the FHWA guidance and rationale.

# Crossing Applications & Roadway Context

## Application

Table 8 and Figure 39 through Figure 42 provide guidance on selecting the appropriate crossing treatments based on roadway context. Either the table or flow charts can be used to select a crossing treatment. Highlighted cells in the table are treatments that should always be considered, while un-highlighted cells are optional treatments (see Table 7).

The recommended overall crossing designs include the following treatment types:

- Crosswalk markings and signage
- Rectangular rapid flashing beacons
- Pedestrian hybrid beacons

For each crossing location, only one of the recommended crossing designs should be selected. Complementary treatments that can be added to the overall crossing design include advance stop or yield lines, in-street pedestrian crossing signs, and raised crosswalks.

Other treatments described in the Crossing Design Elements section of this report can also be used to complement the overall crossing designs but are not included in the selection tool. See the Crossing Design Elements section for additional information about the design and application of each treatment.

Users of this guide are strongly urged to run multiple roadway configuration scenarios for each crossing location before selecting a treatment. Applying a median refuge island, road diet, and/or speed limit reduction may reduce the need for more costly and comprehensive treatments like a PHB. For examples on how to

apply the guidance using multiple roadway scenarios, see the Trail Crossing Profiles section of this report.

Table 7: Notes on Crossing Treatment Selection Matrix

Notation	Definition
(No markings)	Not an appropriate treatment
X	Treatment may be considered
X	Treatment <i>should always</i> be considered

## 85<sup>th</sup> Percentile Speed vs Posted Speed Limit

85<sup>th</sup> percentile is the speed at or below which 85 percent of all vehicles are observed to travel under free-flowing conditions. In many cases, 85<sup>th</sup> percentile speeds are higher than the posted speed limit.

At the discretion of the City Engineer, 85<sup>th</sup> percentile speed may be used in place of posted speed limit when selecting appropriate crossing treatments. In areas with identified safety concerns, using 85<sup>th</sup> percentile speed rather than posted speed can more accurately reflect actual vehicle speeds and appropriate safety countermeasures.

# Crossing Applications & Roadway Context

Table 8: Crossing Treatment Selection Matrix

			Recommended Crossing Designs			Complementary Treatments		
Number of Crossing Lanes	Speed Limit	ADT Per Crossing Stage	Crosswalk Markings and Signage	RRFB	PHB	Stop or Yield Lines	In-Street Crossing Sign	Raised Crosswalk
One lane	≤ 30 mph	<9,000	X			X	X	X
		9,000 to 15,000	X			X	X	
		>15,000	X	X	X	X	X	
	35 mph	<9,000	X	X	X	X		
		9,000 to 15,000	X	X	X	X		
		>15,000	X	X	X	X		
	≥ 40 mph	<9,000		X	X	X		
		9,000 to 15,000		X	X	X		
		>15,000		X	X	X		
Two lanes	≤ 30 mph	<9,000	X			X	X	X
		9,000 to 15,000	X	X	X	X	X	
		>15,000	X	X	X	X	X	
	35 mph	<9,000	X	X	X	X		
		9,000 to 15,000		X	X	X		
		>15,000		X	X	X		
	≥ 40 mph	<9,000		X	X	X		
		9,000 to 15,000		X	X	X		
		>15,000		X	X	X		

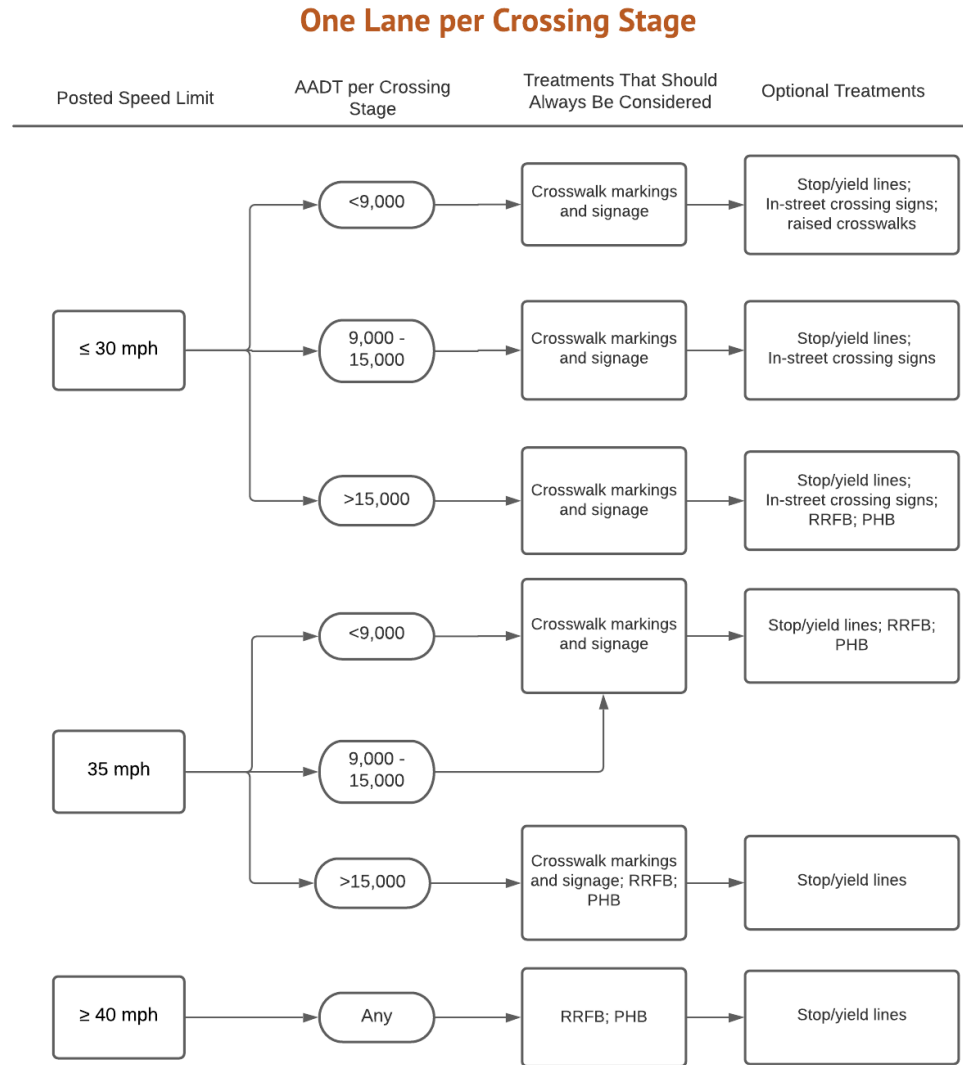
## Crossing Applications & Roadway Context

			Recommended Crossing Designs			Complementary Treatments		
Number of Crossing Lanes	Speed Limit	ADT Per Crossing Stage	Crosswalk Markings and Signage	RRFB	PHB	Stop or Yield Lines	In-Street Crossing Sign	Raised Crosswalk
Three Lanes	≤ 30 mph	<9,000	X	X	X	X	X	X
		9,000 to 15,000	X	X	X	X	X	
		>15,000	X	X	X	X	X	
	35 mph	<9,000	X	X	X	X		
		9,000 to 15,000		X	X	X		
		>15,000			X	X		
	≥ 40 mph	<9,000			X	X		
		9,000 to 15,000			X	X		
		>15,000			X	X		
Four or More Lanes	≤ 30 mph	<9,000	X	X	X	X		
		9,000 to 15,000		X	X	X		
		>15,000		X	X	X		
	35 mph	<9,000		X	X	X		
		9,000 to 15,000		X	X	X		
		>15,000			X	X		
	≥ 40 mph	<9,000			X	X		
		9,000 to 15,000			X	X		
		>15,000			X	X		



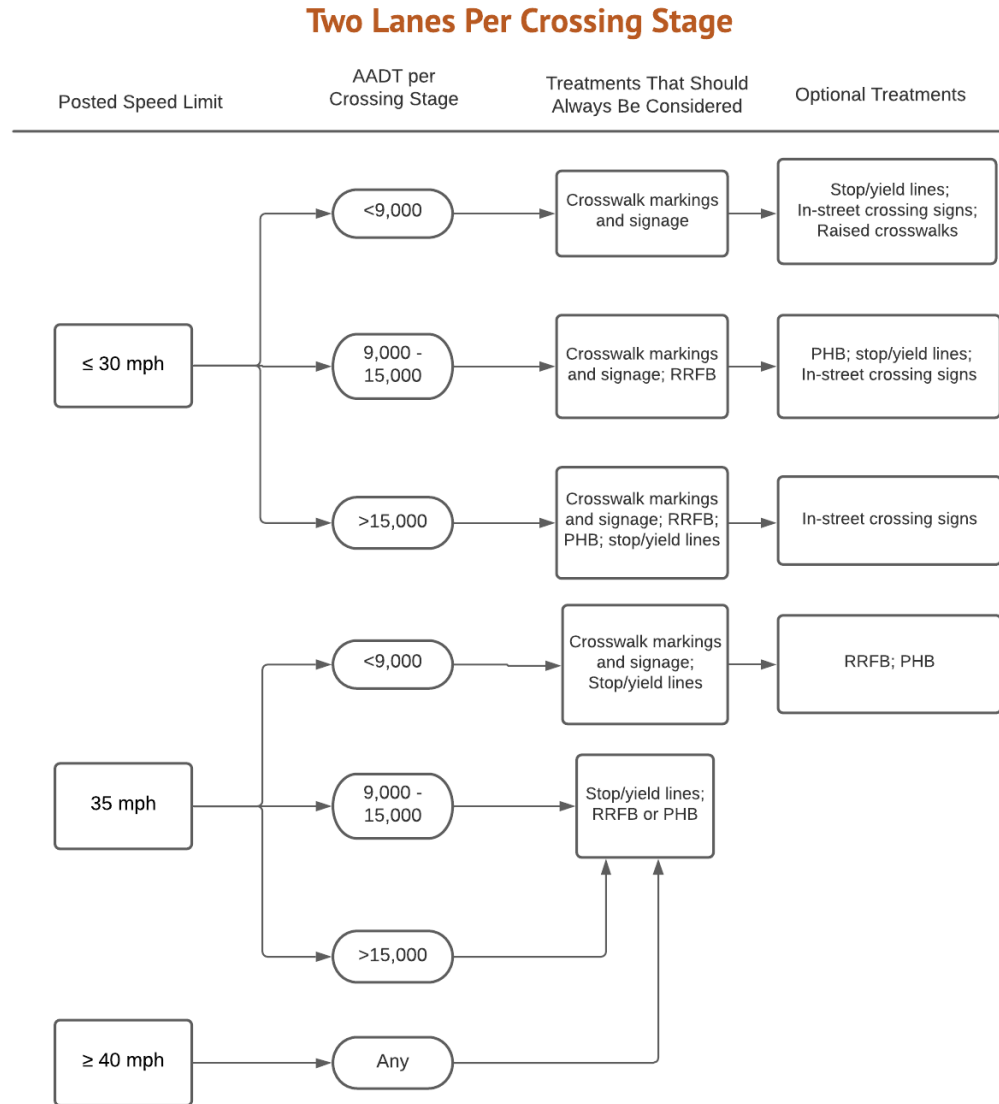
# Crossing Applications & Roadway Context

Figure 39: Crossing Treatment Selection Flowchart, One Lane Crossings



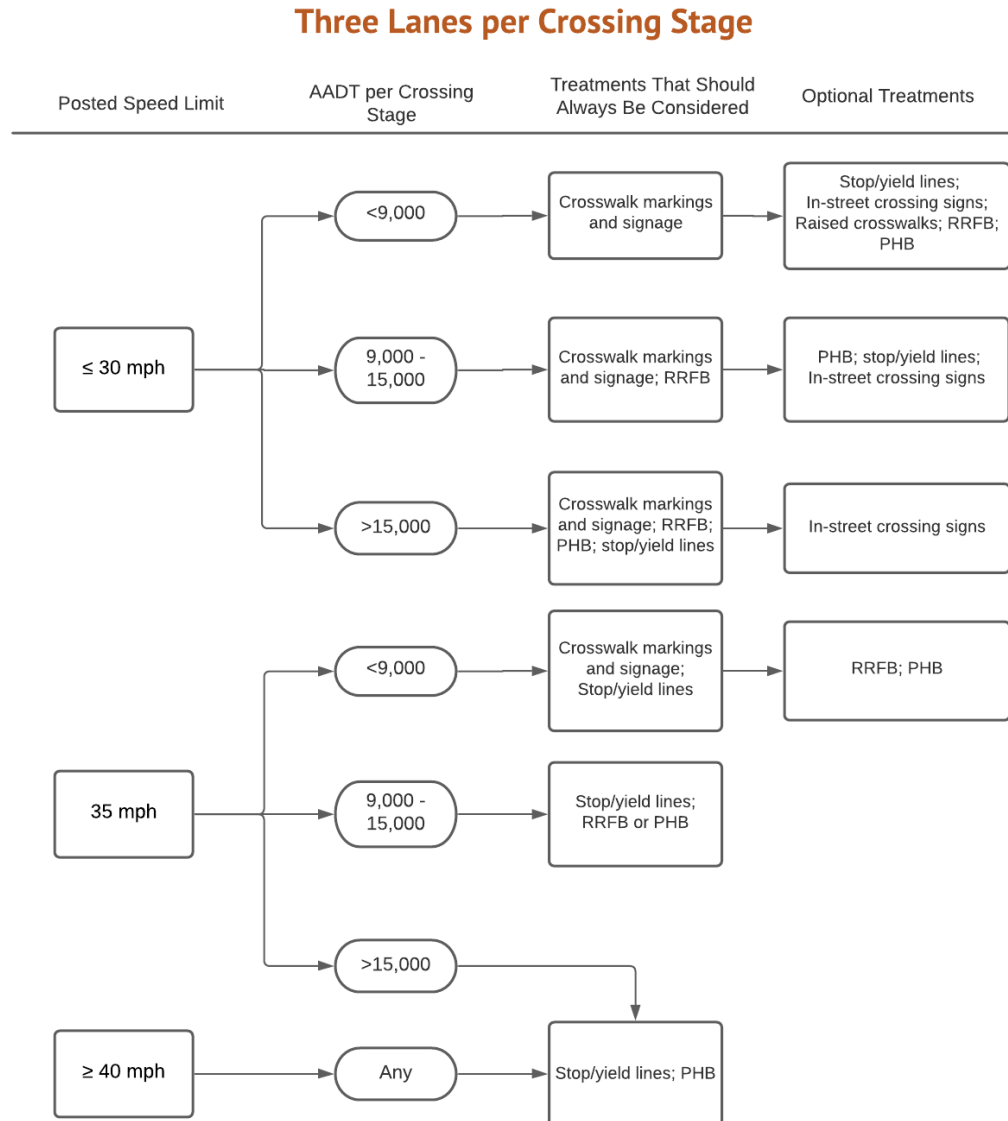
# Crossing Applications & Roadway Context

Figure 40: Crossing Treatment Selection Flowchart, Two-Lane Crossings



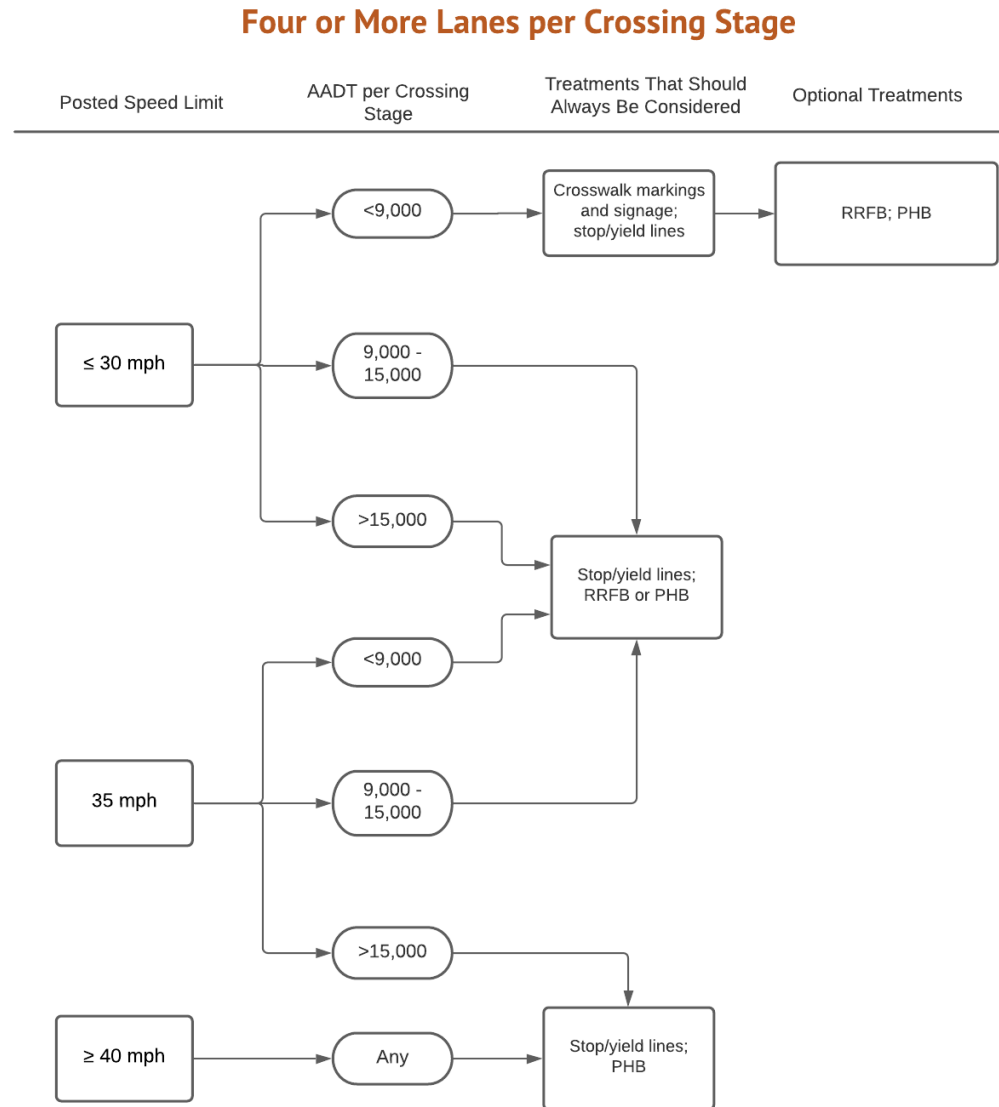
# Crossing Applications & Roadway Context

Figure 41: Crossing Treatment Selection Flowchart, Three-Lane Crossings



# Crossing Applications & Roadway Context

Figure 42: Crossing Treatment Selection Flowchart, Four or More Lane Crossings



# Trail Crossing Profiles and Example Applications

## Juan Tabo Blvd

### Existing Conditions

The **Paseo de las Montañas Trail** crosses Juan Tabo Blvd between Menaul Blvd and Candelaria Rd. Table 9 describes the existing conditions along Juan Tabo Blvd at the crossing location.

Table 9: Juan Tabo Blvd Existing Conditions

Existing Conditions	Paseo de las Montañas Trail @ Juan Tabo Blvd
General Purpose Lanes	6
Raised Median/Refuge Island	Yes
Crossing Lanes	3
Total ADT	23,000
ADT per Crossing Stage	11,500
Speed Limit	40
Functional Classification	Principal Arterial
Comprehensive Plan Corridor Designation	Multi-Modal

The existing crossing includes a median refuge, overhead flashing lights, and bicycle/pedestrian warning signage (see Figure 43). There are no marked crosswalks or advance stop or yield lines at the crossing. Roadway-scale overhead lighting is present on both sides of the roadway near the crossing location.

Figure 43: Existing Trail Crossing at Juan Tabo Blvd



The trail crossing is located 700' from an unsignalized crossing at Claremont Ave to the north and 1700' from a signalized crossing at Candelaria Rd to the north. To the south, the crossing is located 900' from a signalized crossing at Menaul Blvd (see Figure 44).

Figure 44: Adjacent Crossing Locations at Juan Tabo Blvd





# Trail Crossing Profiles and Example Applications

## Juan Tabo Blvd

### Alternatives

The recommended treatments for the crossing of the Paseo de las Montañas Trail at Juan Tabo Blvd depend on the roadway's speed, number of lanes, and ADT. While ADT cannot be controlled, changing the speed limit and number of lanes influences the appropriate options for recommended crossing treatments.

#### Option 1: Keep the current configuration and install a PHB

If no changes are made to the speed limit and number of general purpose lanes on Juan Tabo Blvd, the only appropriate crossing treatment option is a PHB.

#### Option 2: Change roadway design characteristics or operations

##### **2A: Reduce the speed limit and install an RRFB or PHB**

If the speed limit on Juan Tabo Blvd were reduced from 40 mph to 35 mph, either RRFBs or PHBs could be considered for the crossing treatment. Additional traffic calming treatments may be needed to ensure that vehicles comply with the reduced speed limit.

A PHB would provide a safer and more comfortable crossing environment as trail users still need to cross three lanes of traffic at a time. However, because they are expensive to install and impact traffic operations, PHBs should be prioritized at locations with higher traffic volumes and populations of vulnerable road users who may not be able to use an RRFB safely.

##### **2B: Reduce the number of lanes and install an RRFB or PHB**

If a road diet were introduced (from six lanes to four lanes) either RRFBs or PHBs could be considered. Juan Tabo Blvd is identified on MRCOG's Potential Road Diet Candidates Map.

### Recommendation

#### Option 2A and/or 2B with RRFB

The following recommendations should be used in combination for the crossing of the Paseo del Las Montañas Trail at Juan Tabo Blvd:

- Keep the existing refuge island, reduce the speed limit and/or number of general purpose lanes, and replace overhead flashing lights with an RRFB.
- If the speed limit is reduced, additional traffic calming treatments, such as lane narrowing, could further encourage driver compliance.
- Add crosswalk markings and advance stop/yield lines to increase the crossing's visibility and reduce the likelihood of multiple threat crashes.
- Add accessibility features such as truncated domes in the median refuge.
- If the RRFB is to be activated automatically, ensure that it can detect pedestrians crossing from both the sidewalk and the trail.
- At time of design, ensure that overhead lighting levels meet DPM requirements.

Changing the roadway configuration eliminate the need for a more costly PHB. In addition to cost, RRFBs have an advantage over PHBs because they can be activated immediately, reducing delay for trail users crossing the road.

# Trail Crossing Profiles and Example Applications

## Eubank Blvd

### Existing Conditions

The **Paseo de las Montañas Trail** crosses Eubank Blvd between Indian School Rd and Snow Heights Blvd. Table 10 describes the existing conditions along Eubank Blvd at the crossing location.

Table 10: Eubank Blvd Existing Conditions

Existing Conditions	Paseo de las Montañas Trail @ Eubank Blvd
General Purpose Lanes	6
Raised Median/Refuge Island	Yes
Crossing Lanes	3
Total ADT	31,000
ADT per Crossing Stage	15,500
Speed Limit	40
Functional Classification	Principal Arterial
Comprehensive Plan Corridor Designation	None

The existing crossing at Eubank Blvd includes a median refuge, overhead flashing lights, and bicycle/pedestrian warning signage (see Figure 45). There are no marked crosswalks or advance stop or yield lines at the crossing. Roadway-scale overhead lighting is present on both sides of the roadway near the crossing location.

Figure 45: Existing Trail Crossing at Eubank Blvd



The trail crossing is located 500' from a signalized crossing at Snow Heights Blvd to the north and 800' from a signalized crossing at Indian School Rd to the south (see Figure 46).

Figure 46: Adjacent Crossing Locations at Eubank Blvd



# Trail Crossing Profiles and Example Applications

---

## Eubank Blvd

### Alternatives

The recommended treatments for the crossing of the Paseo de las Montañas Trail at Eubank Blvd depend on the roadway's speed, number of lanes, and ADT. Changing the number of lanes influences the appropriate options for recommended crossing treatments. Because of the corridor's high traffic volumes, reducing the speed from 40 mph to 35 mph does not change the recommended treatment options.

#### **Option 1: Keep the current roadway configuration and install a PHB**

If no changes were made to the number of general purpose lanes on Eubank Blvd, the only appropriate crossing treatment option is a PHB.

#### **Option 2: Change roadway design characteristics or operations**

##### ***Reduce the number of general purpose lanes and install an RRFB or PHB***

If a road diet were introduced (from six lanes to four lanes) either RRFBs or PHBs could be considered. However, Eubank Blvd may not be a candidate for a road diet if traffic volumes are projected to grow in the future. The threshold for inclusion on MRCOG's Road Diets Candidates map is an ADT below 35,000, and Eubank Blvd has an ADT of 31,000.

### Recommendation

#### **Option 1 with PHB**

The following recommendations should be used in combination for the crossing of the Paseo del Las Montañas Trail at Eubank Blvd:

- Keep the existing median refuge island and install a PHB at the Eubank Blvd crossing location.
- Per the MUTCD, marked crosswalks, advance stop lines, and signage shall be installed with PHBs to increase its visibility and reduce the risk of multiple threat crashes.
- Add accessibility features such as truncated domes in the median refuge.
- At time of design, ensure that overhead lighting levels meet DPM requirements.

While PHBs are more costly than RRFBs, it is likely not feasible to reduce the number of lanes on Eubank Blvd given its high traffic volumes. A PHB at the crossing location will bring vehicles to a complete stop, which will allow trail users to safely cross the busy and high-speed arterial.

# Trail Crossing Profiles and Example Applications

## Wyoming Blvd

### Existing Conditions

The **Paseo de las Montañas Trail** crosses Wyoming Blvd between Indian School Rd and Constitution Ave. Table 11 describes the existing conditions along Wyoming Blvd at the crossing location.

**Table 11: Wyoming Blvd Existing Conditions**

Existing Conditions	Paseo de las Montañas Trail @ Wyoming Blvd
General Purpose Lanes	6
Raised Median/Refuge Island	Yes
Crossing Lanes	3
Total ADT	31,000
ADT per Crossing Stage	15,500
Speed Limit	40
Functional Classification	Principal Arterial
Comprehensive Plan Corridor Designation	Multi-Modal

The existing crossing at Wyoming Blvd includes a median refuge, overhead flashing lights, and bicycle/pedestrian warning signage (see Figure 47). There are no marked crosswalks or advance stop or yield lines at the crossing. Roadway-scale overhead lighting is present on both sides of the roadway near the crossing location.

The trail also crosses a frontage road parallel to Wyoming Blvd, which includes signage and a median refuge island between

Wyoming Blvd and the frontage road. There is a concrete barrier between Wyoming Blvd and the frontage road that may make it more difficult to drivers to see pedestrians waiting to cross and may reduce driver yield rates.

**Figure 47: Existing Trail Crossing at Wyoming Blvd**



The trail crossing is located 1000' from a signalized crossing at Indian School Rd to the north and 1600' from a signalized crossing at Constitution Ave to the south (see Figure 48).

**Figure 48: Adjacent Crossing Locations at Wyoming Blvd**





# Trail Crossing Profiles and Example Applications

---

## Wyoming Blvd

### Alternatives

The recommended treatments for on Wyoming Blvd at the Paseo de las Montañas crossing depend on the roadway's speed, number of lanes, and ADT. Changing the number of lanes influences the appropriate options for recommended crossing treatments. Because of the corridor's high traffic volumes, reducing the speed from 40 mph to 35 mph does not change the recommended treatment options.

#### **Option 1: Keep the current roadway configuration and install a PHB**

If no changes were made to the number of general purpose lanes on Wyoming Blvd, the only appropriate crossing treatment option is a PHB.

#### **Option 2: Change roadway design characteristics or operations**

##### ***Reduce the number of general purpose lanes and install an RRFB or PHB***

If a road diet were introduced (from six lanes to four lanes) either RRFBs or PHBs could be considered. However, Wyoming Blvd may not be a candidate for a road diet if traffic volumes are projected to grow in the future. The threshold for inclusion on MRCOG's Road Diets Candidates map is an ADT below 35,000, and Wyoming Blvd has an ADT of 31,000.

### Recommendation

#### **Option 1 with PHB**

The following recommendations should be used in combination for the crossing of the Paseo del Las Montañas Trail at Wyoming Blvd:

- Keep the existing median refuge island and install a PHB at the Wyoming Blvd crossing location.
- Per the MUTCD, marked crosswalks, advance stop lines, and signage shall be installed with PHBs to increase its visibility and reduce the risk of multiple threat crashes.
- Add accessibility features such as truncated domes in the median refuge.
- At time of design, ensure that overhead lighting levels meet DPM requirements.

While PHBs are more costly than RRFBs, it is likely not feasible to reduce the number of lanes on Wyoming Blvd given its high traffic volumes. A PHB at the crossing location will bring vehicles to a complete stop, which will allow trail users to safely cross the busy and high-speed arterial. A PHB would also address visibility issues caused by the concrete wall barrier between Wyoming Blvd and the frontage road.



# Trail Crossing Profiles and Example Applications

## San Mateo Blvd

### Existing Conditions

The **Paseo del Nordeste Trail** crosses San Mateo Blvd between Montgomery Blvd and Comanche Rd. Table 12 describes the existing conditions along San Mateo Blvd at the crossing location.

Table 12: San Mateo Blvd Existing Conditions

Existing Conditions	Paseo del Nordeste Trail @ San Mateo Blvd
General Purpose Lanes	6
Raised Median/Refuge Island	Yes
Crossing Lanes	3
Total ADT	25,000
ADT per Crossing Stage	12,500
Speed Limit	40
Functional Classification	Principal Arterial
Comprehensive Plan Corridor Designation	Major Transit

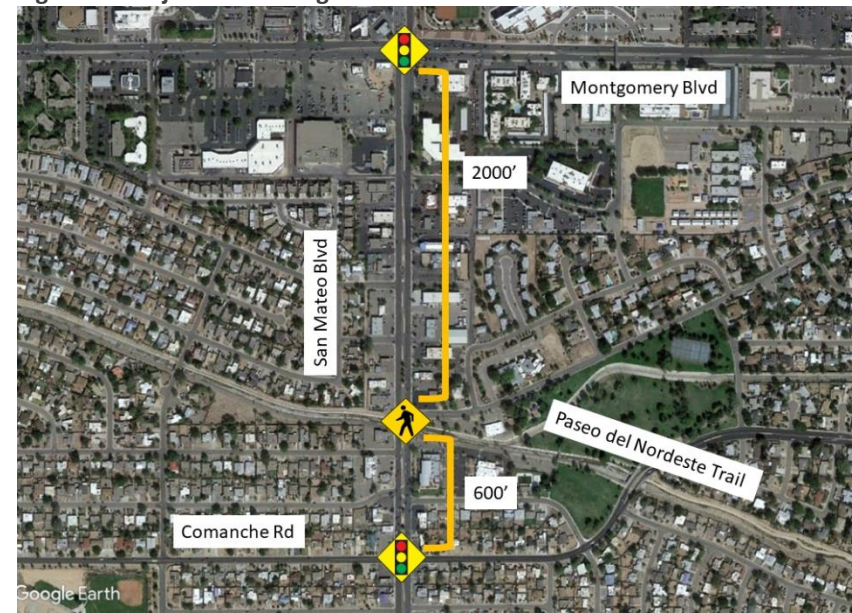
The existing crossing at San Mateo Blvd includes a median refuge and overhead bicycle warning signage (see Figure 49). There are no marked crosswalks or advance stop or yield lines at the crossing. Roadway-scale overhead lighting is present on both sides of the roadway near the crossing location. Unlike similar trail crossings, the crossing at San Mateo Blvd does not have overhead flashing lights or pedestrian crossing signage.

Figure 49: Existing Trail Crossing at San Mateo Blvd



The trail crossing is located 2000' from a signalized crossing at Montgomery Blvd to the north and 600' from a signalized crossing at Comanche Rd to the south (see Figure 50).

Figure 50: Adjacent Crossing Locations at San Mateo Blvd



# Trail Crossing Profiles and Example Applications

## San Mateo Blvd

### Alternatives

Per the recommended crossing treatments guidelines, crossing treatments for San Mateo Blvd at the Paseo del Nordeste Trail depend on the roadway's speed, number of lanes, and ADT. Changing the speed limit and number of lanes influences the appropriate options for recommended crossing treatments.

#### **Option 1: Keep the current roadway configuration and install a PHB**

If no changes were made to the speed limit and number of general purpose lanes on San Mateo Blvd, the only appropriate crossing treatment option is a PHB.

#### **Option 2: Change roadway design characteristics or operations**

##### ***2A: Reduce the speed limit and install an RRFB or PHB***

If the speed limit on San Mateo Blvd were reduced from 40 mph to 35 mph, either RRFBs or PHBs could be considered for the crossing treatment. Additional traffic calming treatments may be needed to ensure that vehicles comply with the reduced speed limit.

A PHB would provide a safer and more comfortable crossing environment as trail users still need to cross three lanes of traffic at a time. However, because they are expensive to install and impact traffic operations, PHBs should be prioritized at locations with higher traffic volumes and populations of vulnerable road users who may not be able to use an RRFB safely.

##### ***2B: Reduce the number of lanes and install an RRFB or PHB***

If a road diet were introduced (from six lanes to four lanes) either RRFBs or PHBs could be considered. San Mateo Blvd is identified on MRCOG's Potential Road Diet Candidates Map.

### Recommendation

#### **Option 2A and/or 2B with RRFB**

The following recommendations should be used in combination for the crossing of the Paseo del Nordeste Trail at San Mateo Blvd:

- Keep the existing median refuge island, introduce a road diet and/or speed limit reduction, and replace flashing lights with an overhead RRFB.
- If speed limit is reduced, add additional traffic calming treatments to encourage driver compliance.
- Add crosswalk markings and advance stop/yield lines to increase the crossing's visibility and reduce the likelihood of multiple threat crashes.
- Add accessibility features such as truncated domes in the median refuge and on sidewalk curb ramps.
- If the RRFB is to be activated automatically, ensure that it can detect pedestrians crossing from both the sidewalk and the trail.
- At time of design, ensure that overhead lighting levels meet DPM requirements.

Changing the roadway configuration would allow the City to install an RRFB rather than a more costly PHB. In addition to cost, RRFBs have an advantage over PHBs because they can be activated immediately, reducing delay for trail users crossing the road.

# Trail Crossing Profiles and Example Applications

## Carlisle Blvd

### Existing Conditions

The **Paseo del Nordeste Trail** crosses Carlisle Blvd between Montgomery Blvd and Comanche Rd. Table 13 describes the existing conditions along Carlisle Blvd at the crossing location.

Table 13: Carlisle Blvd Existing Conditions

Existing Conditions	Paseo del Nordeste Trail @ Carlisle Blvd
General Purpose Lanes	6
Raised Median/Refuge Island	Yes
Crossing Lanes	3
Total ADT	21,000
ADT per Crossing Stage	10,500
Speed Limit	35
Functional Classification	Minor Arterial
Comprehensive Plan Corridor Designation	Major Transit

The existing crossing at Carlisle Blvd includes a median refuge, overhead flashing lights, and bicycle/pedestrian warning signage (see Figure 51). There are no marked crosswalks or advance stop or yield lines at the crossing. Roadway-scale overhead lighting is present on both sides of the roadway near the crossing location.

Figure 51: Existing Trail Crossing at Carlisle Blvd



The trail crossing is located 1150' from a signalized crossing at Montgomery Blvd to the north and 1400' from a signalized crossing at Comanche Rd to the south (see Figure 52).

Figure 52: Adjacent Crossing Locations at Carlisle Blvd





# Trail Crossing Profiles and Example Applications

---

## Carlisle Blvd

### Alternatives

Based on the guidance provided in this report and the posted speed limit and traffic volume along Carlisle Blvd, an RRFB with pedestrian refuge island is an appropriate treatment for the crossing of the Paseo del Nordeste Trail.

Additional options include the application of a road diet for traffic calming and general safety purposes. Reducing the number of lanes would not influence the types of crossing treatments that can be applied.

#### **Option 1: Keep the existing roadway configuration, replace overhead flashing lights with an RRFB, and apply enhanced crosswalk markings**

High visibility crosswalk markings and an RRFB in place of flashing lights would enhance driver awareness and more clearly demarcate the pedestrian crossing.

#### **Option 2: Keep the existing roadway configuration and install a PHB**

If no changes were made to the speed limit and number of general purpose lanes on Carlisle Blvd, a PHB is an appropriate crossing treatment option. Installation of a PHB would require motorists to come to a complete stop. While a PHB would affect traffic operations, the crossing location is spaced far enough from existing traffic signals to minimize impacts.

### Recommendation

#### **Option 1: Apply enhanced crosswalk markings**

The following recommendations should be used in combination for the crossing of the Paseo del Nordeste Trail at Carlisle Blvd:

- Keep the existing median refuge at the crossing and replace overhead flashing lights with an RRFB
- Add crosswalk markings and advance stop/yield lines to increase the crossing's visibility and reduce the likelihood of multiple threat crashes.
- Add accessibility features such as truncated domes in the median refuge.
- If the RRFBs is to be activated automatically, ensure that it can detect pedestrians crossing from both the sidewalk and the trail.
- At time of design, ensure that overhead lighting levels meet DPM requirements.

This recommendation allows the City to keep the roadway configuration on Carlisle Blvd. Additions of RRFBs, crosswalk markings, yield lines, and truncated domes would be cost-effective and would enhance the visibility and safety for trail users crossing the street.

# Trail Crossing Profiles and Example Applications

## Pennsylvania St

### Existing Conditions

**Claremont Ave** crosses Pennsylvania St between Candelaria Rd and Menaul Blvd along a proposed bike boulevard route. Table 14 describes the existing conditions along Pennsylvania St at the intersection.

Table 14: Pennsylvania St Existing Conditions

Existing Conditions	Claremont Ave @ Pennsylvania St
General Purpose Lanes	2
Raised Median/Refuge Island	No
Crossing Lanes	2
Total ADT	7,000
ADT per Crossing Stage	7,000
Speed Limit	25
Functional Classification	Major Collector
Comprehensive Plan Corridor Designation	None

There are no existing crossing treatments at the intersection of Claremont Ave and Pennsylvania St (see Figure 53). There are stop signs controlling traffic on Claremont Ave, but no traffic control devices on Pennsylvania St. There is one roadway-scale overhead light on the southeast corner of the intersection.

Figure 53: Existing Crossing at Pennsylvania St



The intersection is located 1250' from a signalized crossing at Candelaria Rd to the north and 1250' from a signalized crossing at Menaul Blvd to the south (see Figure 54).

Figure 54: Adjacent Crossing Locations at Pennsylvania St





# Trail Crossing Profiles and Example Applications

---

## Pennsylvania St

### Alternatives

Pennsylvania St at Claremont Ave is a low-speed and low-volume two-lane roadway. As such, no changes to the existing configuration are needed to add crossing treatments.

#### **Option 1: Keep the existing roadway configuration and install crosswalk markings and signage**

If no changes were made to the speed limit and number of general purpose lanes on Pennsylvania St, the appropriate crossing treatment is high-visibility crosswalk markings and signage.

### Recommendation

#### **Apply crosswalk markings and signage**

The following recommendations should be used in combination for the crossing at Pennsylvania St and Claremont Ave:

- Add continental-style crosswalk markings across Pennsylvania St.
- Add pedestrian warning signage.
- Ensure that nighttime lighting levels are adequate.
- At time of design, ensure that overhead lighting levels meet DPM requirements. Additional lighting will likely be needed.
- Additional optional treatments include in-street pedestrian crossing signs, advance yield lines, and raised crosswalks.
  - While advance yields lines can be installed on two-lane streets, their main purpose is to prevent multiple threat crashes on multi-lane roads.
  - Raised crosswalks can be installed on streets with less than 9,000 ADT and help to slow traffic and increase the visibility of pedestrians crossing the street.

# Trail Crossing Profiles and Example Applications

## Golf Course Rd

### Existing Conditions

**Marna Lynn Ave** crosses Golf Course Rd between Paradise Blvd and Paseo del Norte Blvd. Table 15 describes the existing conditions along Golf Course Rd at the intersection.

Table 15: Golf Course Rd Existing Conditions

Existing Conditions	Marna Lynn Ave @ Golf Course Rd
General Purpose Lanes	4
Raised Median/Refuge Island	Raised median w/out refuge island
Crossing Lanes	2
Total ADT	26,000
ADT per Crossing Stage	13,000
Speed Limit	40
Functional Classification	Minor Arterial
Comprehensive Plan Corridor Designation	Major Transit

There are no existing crossing treatments at the intersection of Marna Lynn Ave and Golf Course Rd (see Figure 55). There are stop signs controlling traffic on Marna Lynn Ave, but no traffic control devices on Golf Course Rd. Golf Course Rd has a 10'-wide raised concrete median, but no designated spaces in the median for pedestrian refuge islands. There is no overhead lighting at the intersection.

Figure 55: Existing Crossing at Golf Course Rd



The intersection is located 1500' from a signalized crossing at Paradise Blvd to the north and 2100' from a signalized crossing at Paseo del Norte Blvd to the south (see Figure 56).

Figure 56: Adjacent Crossing Locations at Golf Course Rd



# Trail Crossing Profiles and Example Applications

---

## Golf Course Rd

### Alternatives

Per the recommended crossing treatments guidelines, crossing treatments for Golf Course Rd at Marna Lynn Ave depend on the roadway's speed, number of lanes, and ADT. The selected alternative also depends on the decision to restrict or maintain options for left turns at the intersection.

#### **Option 1: Keep the existing roadway configuration and install a PHB**

If no changes are made to the speed limit and the geometry of the roadway is unchanged, the most appropriate crossing treatment is a PHB.

#### **Option 2: Change roadway design and operations characteristics by adding a refuge island and RRFB or PHB**

If the speed limit on Golf Course Rd were reduced from 40 mph to 35 mph and refuge islands were added to the median, a crossing could be provided with an RRFB and crosswalk markings. A PHB may still be considered for additional safety benefits. Additional traffic calming treatments may be needed to ensure that vehicles comply with the reduced speed limit.

### Recommendation

#### **Option 2 with RRFB/PHB and refuge island, pending further study**

Further engineering analysis is needed determine if there are adequate sight lines at the intersection to install a crossing with RRFB. A PHB may be desired to bring traffic to a complete stop to ensure greater driver yielding rates.

A pedestrian refuge island is desired for this location; however, installing this feature at the intersection with Marna Lynn Ave would limit use of one of the left turn bays (depending on the location for the crossing). Additional consideration should be given to the effects of limiting access at the intersection.

The following additional recommendations should be used in combination for the crossing at Golf Course Rd and Marna Lynn Ave:

- Reduce the posted speed limit to 35 mph.
- Install crosswalk markings and advance stop/yield lines to increase the crossing's visibility and reduce the likelihood of multiple threat crashes.
- Add accessibility features such as truncated domes.
- Install adequate lighting to meet DPM-required lighting levels.

# Appendices

---

## Definitions

**Advance Stop/Yield Lines:** Pavement markings placed 20 to 50 feet ahead of a crosswalk that indicate where vehicles should wait for pedestrians and bicyclists to cross.

**Average Daily Traffic:** The average 24 hour volume of vehicles on a roadway segment, calculated by dividing the total volume during a year by 365 days.

**Controlled Pedestrian Crossing:** a location where vehicles in all directions are managed with traffic control devices that may facilitate pedestrian crossing (DPM 7-4(A)(2)).

**Crosswalk Markings:** Pavement markings that indicate a crosswalk's location. Styles include solid, standard, continental, dashed, zebra, and ladder. Ladder, continental, and zebra markings are considered "high visibility" crosswalk markings.

**Designated Crossing:** A crossing where pedestrians are encouraged to cross a roadway, as indicated by a combination of signal devices, signage, or pavement markings (DPM 7-4(A)(2)).

**Full Traffic Signals:** Standard traffic signals with pedestrian signal heads and countdown timers.

**Grade-Separated Crossing:** A bridge or underpass that allows bicyclists or pedestrians to cross a road without interacting with vehicles.

**In-Pavement Lights:** Raised pavement markers installed on both sides of a crosswalk which may contain LED strobe lighting that emanate outward in the direction of oncoming traffic. They can

either be continuous or pedestrian-activated. Also referred to as Crosswalk Warning Systems.

**Median Refuge Islands:** A median with a space for pedestrians to wait for a gap in traffic, allowing two-stage crossings across multi-lane roads. Also referred to as a pedestrian refuge island, crossing island, or pedestrian safety island.

**Mid-Block Crossing:** a designated pedestrian crossing not located at an intersection. Mid-block crossings provide direct access to destinations and reduce the distance between intersections with designated crossings (DPM 7-4(A)(2)).

**Multiple Threat Crashes:** Crashes that occur on roadways with two or more vehicle travel lanes in the same direction. Occurs when a driver in one lane stops for pedestrian while a driver in another lane continues and strikes the person crossing the street.

**Pedestrian Hybrid Beacons (PHB):** A pedestrian-activated traffic signal that brings vehicles to a complete stop until pedestrians have finished crossing. Also referred to as a high-intensity activated crosswalk (HAWK) signal.

**Rectangular Rapid Flashing Beacons (RRFB):** An overhead or roadside-mounted sign equipped with flashing LED lights to alert drivers of an unsignalized crossing location. They can be either continuously flashing or pedestrian-activated.

**Road Diet:** A range of techniques to encourage slower travel speeds and create space for pedestrian, bicycle, and transit users (DPM 7-6).

# Appendices

---

**Signalized Crossing:** A designated pedestrian crossing where traffic is forced to stop and the pedestrian is protected by a traffic signal or pedestrian-activated signal device (DPM 7-4(A)(2)).

**Signalized Intersection:** An intersection where vehicles are managed through a traffic signal. Pedestrian crossings are typically provided at signalized intersections (DPM 7-4(A)(2)).

**Stopping Sight Distance:** The length of roadway visible to the driver and sufficiently long enough to enable a vehicle traveling at or near the design speed to stop or change lanes before reaching a stationary object in its path (DPM 7-6).

**Uncontrolled Intersection:** Intersections without any signage or traffic control (DPM 7-116).

**Uncontrolled Pedestrian Crossing:** a location where pedestrians may cross a roadway where vehicles are not controlled. Pedestrian crossings with pavement markings and signage are an example of both uncontrolled and designated pedestrian crossings (DPM 7-4(A)(2)).

**Undesignated Crossing:** Locations without pavement markings, signal devices, or signage where pedestrians are expected to cross the roadway.

**Unsignalized Crossing:** Pedestrian crossings without a traffic signal. Unsignalized pedestrian crossings may have other features to alert drivers to the presence of pedestrians, including signage, crosswalk markings, and rectangular rapid flashing beacons.

**Unsignalized Intersection:** An at-grade intersection in which the flow of traffic is not controlled by a traffic signal. Unsignalized

intersections may be STOP-sign controlled, YIELD sign-controlled, or uncontrolled (DPM 7-6).



## Appendices

### Crossing Treatments Guidelines Methodology

Table 16 documents which FHWA's vehicle lane categories align with Albuquerque's guidance that uses crossing lanes rather than total vehicle travel lanes.

Table 16: FHWA Vehicle Travel Lane Categories

Albuquerque Category	FHWA Category
One lane	2 lanes (1 lane in each direction)
Two lanes	3 lanes with raised median (1 lane in each direction)
Three lanes	3 lanes without raised median (1 lane in each direction with a two-way left-turn lane)
Four or more lanes	4+ lanes without raised median (2 or more lanes in each direction)

# Appendices

Table 17 documents other changes that were made to the FHWA guidance and the reasoning behind the adaptations.

**Table 17: Changes to FHWA Crossing Treatments Guidance**

Change to FHWA Guidance	Rationale
Added advance stop/yield lines to all one-lane crossings	The FHWA states that advance stop/yield lines are a candidate treatment for any uncontrolled pedestrian crossing. However, implementation on one-lane crossings should not be prioritized as the primary purpose of advance stop/yield lines is to prevent multiple threat crashes.
Added RRFB as a treatment for one-lane crossings with ADT over 15,000 and $\geq 40$ mph speeds	Other jurisdictions, including Portland Bureau of Transportation, Colorado DOT, and Virginia DOT, allow RRFBs instead of PHBs on two and three lane streets w/ refuge islands where ADT > 15,000 and speed limits are 40 mph.
Added RRFB as a treatment on two-lane crossings with ADT over 15,000 and $\geq 40$ mph speeds	Other jurisdictions, including Colorado DOT and Virginia DOT, allow RRFBs instead of PHBs on two-lane roads without refuge islands where ADT > 15,000 and speed limits are 40 mph.
Adding raised crosswalks to one, two, and three lane roadways with $\leq 30$ mph speeds and ADT < 9,000	Typical application for raised crosswalks per the NMDOT Transportation Design Manual
Removed curb extensions, road diets, and refuge islands from the tables and figures	Removed for clarity and to reduce redundancy. These treatments can be considered for all roadways regardless of speed, ADT, or number of lanes.
Removed optional crosswalk markings and signage where RRFBs or PHBs are the minimum required crossing design	Removed for clarity and to reduce redundancy. Crosswalk markings and signage are a required component of RRFBs and PHBs per the MUTCD.
Highlighted crosswalk markings, RRFBs and PHBs as treatments that should always be considered for the following contexts: -One lane crossings with speeds of 35 mph and ADT >15,000 -Two-lane crossings with speed limits $\leq 30$ mph and ADT >15,000 -Three-lane crossings with speed limits $\leq 30$ mph and ADT >15,000	FHWA guidance did not mark any treatment as “should always be considered” for these categories. Highlighting treatments encourages users to consider all available options before making a decision.

## Appendices

Change to FHWA Guidance	Rationale
<p>Highlighted crosswalk markings and RRFBs as treatments that should always be considered for the following contexts:</p> <ul style="list-style-type: none"> <li>-Two-lane crossings with speed limits <math>\leq 30</math> mph and ADT between 9,000 and 15,000</li> <li>-Three-lane crossings with speed limits <math>\leq 30</math> mph and ADT between 9,000 and 15,000</li> </ul>	<p>FHWA guidance did not mark any treatment as “should always be considered” for these categories. Highlighting treatments encourages users to consider all available options before making a decision. Although PHBs can still be considered, PHBs were not highlighted in these contexts because less comprehensive treatments are adequate for lower speed/volume roadways.</p>
<p>Highlighted RRFB and PHB as treatments that should always be considered for four-lane crossings with speed limits <math>\leq 30</math> mph and ADT between 9,000 and 15,000. Removed the option for crosswalk markings and signage for this context.</p>	<p>FHWA guidance did not mark any treatment as “should always be considered” for these categories. Highlighting treatments encourages users to consider all available options before making a decision. Crosswalk markings and signage were removed because it is not an adequate treatment for four-lane medium volume roadways.</p>

# Appendices

## Crash Modification Factors

Treatment	CMF Countermeasure Title	CMF	Crash Type and Severity	Roadway Classification and Context	Source
Full Traffic Signal	Install Traffic Signal	.77	All types, Injury Crashes	Road Type not Specified; Urban	McGee et al., 2003
PHB	Install pedestrian hybrid beacon (PHB or HAWK) with advanced yield or stop markings and signs	.43	Vehicle/Pedestrian, All Severities	Minor Arterial; Urban/Suburban	Zegeer et al., 2017
RRFB	Install rectangular rapid flashing beacon (RRFB)	.53	Vehicle/Pedestrian, All Severities	Minor Arterial; Urban/Suburban	Zegeer et al., 2017
High Visibility Crosswalk Marking	Install high-visibility crosswalk	.6	Vehicle/Pedestrian, All Severities	Road Type not Specified; Urban	Li Chen, Cynthia Chen, and Reid Ewing, 2012
Advance Stop/Yield Lines	Install advanced yield or stop markings and signs	.75	Vehicle/Pedestrian, All Severities	Minor Arterial; Urban/Suburban	Zegeer et al., 2017
Pedestrian Refuge Islands	Install raised median with marked crosswalk (uncontrolled)	.54	Vehicle/Pedestrian, All Severities	Principal Arterial; Urban/Suburban	Zegeer et al., 2002
Raised Crosswalk	Install raised pedestrian crosswalk	.55	Vehicle/Pedestrian, Injury Crashes	Local; Urban/Suburban	Elvik, R. and Vaa, T., 2004
Road Diet	Road diet (Convert 4-lane undivided road to 2-lanes plus turning lane)	.63	All types; Injury Crashes	Principal Arterial; Urban	Abdel-Aty et al., 2014

# Appendices

---

## References

- Alta Planning + Design. (n.d.). Small Town and Rural Design Guide. <https://ruraldesignguide.com/>
- Blackburn, L., Zegeer, C. V., & Brookshire, K. (2018). Guide for improving pedestrian safety at uncontrolled crossing locations (No. FHWA-SA-17-072). United States. Federal Highway Administration. Office of Safety.  
[https://safety.fhwa.dot.gov/ped\\_bike/step/docs/STEP\\_Guide\\_for\\_Improving\\_Ped\\_Safety\\_at\\_Unsig\\_Loc\\_3-2018\\_07\\_17-508compliant.pdf](https://safety.fhwa.dot.gov/ped_bike/step/docs/STEP_Guide_for_Improving_Ped_Safety_at_Unsig_Loc_3-2018_07_17-508compliant.pdf).
- Chen, L., Chen, C., & Ewing, R. (2012). The relative effectiveness of pedestrian safety countermeasures at urban intersections—Lessons from a New York City experience. In Transportation Research Board (TRB) 91st Annual Meeting, Washington, DC.
- FHWA (2013). Pedestrian Safety Guide and Countermeasure Selection System. <http://www.pedbikesafe.org/pedsafe/index.cfm>.
- FHWA (October 2021). Proven Safety Countermeasures. <https://safety.fhwa.dot.gov/provencountermeasures/>
- FHWA Safety Program. (n.d.). Safety Benefits of Raised Medians and Pedestrian Refuge Areas.  
[https://safety.fhwa.dot.gov/ped\\_bike/tools\\_solve/medians\\_brochure/](https://safety.fhwa.dot.gov/ped_bike/tools_solve/medians_brochure/)
- FHWA. (2014). Road Diet Informational Guide. [https://safety.fhwa.dot.gov/road\\_diets/guidance/info\\_guide/ch2.cfm#s212](https://safety.fhwa.dot.gov/road_diets/guidance/info_guide/ch2.cfm#s212)
- Hillsborough County MPO. (2014). Bicycle / Pedestrian Design Treatments & Criteria: At Grade and Separated Pedestrian Crossings & On-Street Bicycle Lane Configurations. [https://planhillsborough.org/wp-content/uploads/2015/04/Design\\_Treatments\\_Ped\\_xing\\_Bike\\_Striping-20041.pdf](https://planhillsborough.org/wp-content/uploads/2015/04/Design_Treatments_Ped_xing_Bike_Striping-20041.pdf)
- Mead, J., Zegeer, C., & Bushell, M. (2014). Evaluation of pedestrian-related roadway measures: A summary of available research. Pedestrian and Bicycle Information Center. Chapel Hill, NC, UNC Highway safety Research Center, 115.
- NACTO. (2014). Urban Bikeway Design Guide: Hybrid Beacon for Bike Route Crossing of Major Street. <https://nacto.org/publication/urban-bikeway-design-guide/bicycle-signals/hybrid-beacon-for-bike-route-crossing-of-major-street/>.
- NCHRP (2006). NCHRP Report 562: Improving Pedestrian Safety at Unsignalized Crossings. Washington, DC: The National Academies Press.  
<https://doi.org/10.17226/13962>.
- NCHRP (2016). NCHRP Synthesis 498: Application of Pedestrian Crossing Treatments for Streets and Highways. Washington, DC: The National Academies Press. <https://doi.org/10.17226/24634>



# Appendices

---

- NCHRP (2017). NCHRP Report 841: Development of Crash Modification Factors for Uncontrolled Pedestrian Crossing Treatments. Washington, DC: The National Academies Press. DOI: <https://doi.org/10.17226/24627>
- NMDOT (2020). New Mexico Department of Transportation Design Manual. <https://www.dot.nm.gov/infrastructure/engineering-publications/design-manual/>
- NMDOT. (2019). New Mexico Pedestrian Crash Statistics, 2015-2019. [https://gps.unm.edu/sites/default/files/traffic/NM\\_Pedestrian\\_Report\\_15-19.pdf](https://gps.unm.edu/sites/default/files/traffic/NM_Pedestrian_Report_15-19.pdf).
- Pedestrian and Bicycle Information Center (PBIC). (n.d.) Safe Routes to School Guide. [http://guide.saferoutesinfo.org/engineering/marked\\_crosswalks.cfm#street](http://guide.saferoutesinfo.org/engineering/marked_crosswalks.cfm#street)
- Shurbutt, J., & Van Houten, R. (2010). Effects of Yellow Rectangular Rapid-Flashing Beacons on Yielding at Multilane Uncontrolled Crosswalks (No. FHWA-HRT-10-043). United States. Federal Highway Administration. Office of Safety Research and Development.
- Streetlight Data. (2021) Special Report: Bike Safety Shift. <https://learn.streetlightdata.com/bike-safety-shift-special-report>.
- Zegeer, C. V., Stewart, J. R., Huang, H. H., Lagerwey, P. A., Feaganes, J. R., & Campbell, B. J. (2005). Safety effects of marked versus unmarked crosswalks at uncontrolled locations final report and recommended guidelines (No. FHWA-HRT-04-100). United States. Federal Highway Administration. Office of Safety Research and Development.

**Heyne, Catherine M.**

---

**From:** Julia Duncan <jul.duncan@tlcplumbing.com>  
**Sent:** Monday, July 15, 2024 1:50 PM  
**To:** Planning EPC  
**Subject:** Support for the 2024 Bikeway and Trail Facilities Plan

**Follow Up Flag:** Flag for follow up  
**Flag Status:** Flagged

[EXTERNAL] Forward to [phishing@cabq.gov](mailto:phishing@cabq.gov) and delete if an email causes any concern.

Jonathan R. Hollinger  
Chair, Environmental Planning Commission  
City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

**July 2024**

**RE: Support for the 2024 Bikeway and Trail Facilities Plan**

Project #: 2024-010493

Case #: RZ-2024-00032

Hello EPC Commissioners:

I am a member of Generation Elevate New Mexico ("GENM"). GENM is a coalition of young leaders committed to positively shaping the future of New Mexico by championing smart, sustainable, and resilient growth development projects and governmental policies.

I am writing to voice my support for the 2024 CABQ Bikeways and Trail Plan and the requests being brought forward to the Environmental Planning Commission on July 18th. This development is important for the health and wellbeing of our community, families, and friends, and will help New Mexicans in the following ways:

1. **Equitable Access to Jobs and Services:** By investing in low-income areas where access to cars may be limited we can provide equitable access to jobs and services for the working population to be able to participate in the local economy overall.
2. **Positive Economic Impact:** Improved bikeways and trails have been noted to improve property values in various studies and allow easier access to local business.
3. **Promote Sustainability:** This project will support sustainable growth by improving biking infrastructure (particularly in low-income and older neighborhoods) as a mitigation strategy to help reduce greenhouse gas emissions.
4. **Increased Safety for Cyclists:** By making safer cycling facilities we can expand the potential number of cyclists and pedestrians by increasing confidence in their personal safety.

In closing, I want to express my wholehearted support for this project. Together, we can make a difference in the lives of countless individuals and build a safer, healthier, and more equitable community for generations to come.

Thank you,  
Julia Duncan

*Julia Duncan*



5000 Edith Blvd NE  
Albuquerque, NM 87107

**Phone:** 505-944-9538

**Fax:** 505-761-9875

---



Jonathan R. Hollinger  
Chair, Environmental Planning Commission  
City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

July 2024

**RE: Support for the 2024 Bikeway and Trail Facilities Plan**

Project #: 2024-010493

Case #: RZ-2024-00032

Hello EPC Commissioners:

I am a member of Generation Elevate New Mexico ("GENM"). GENM is a coalition of young leaders committed to positively shaping the future of New Mexico by championing smart, sustainable, and resilient growth development projects and governmental policies.

I am writing to voice my **support** for the 2024 CABQ Bikeways and Trail Plan and the requests being brought forward to the Environmental Planning Commission on July 18th. This development is important for the health and wellbeing of our community, families, and friends, and will help New Mexicans in the following ways:

1. **Equitable Access to Jobs and Services:** By investing in low-income areas where access to cars may be limited we can provide equitable access to jobs and services for the working population to be able to participate in the local economy overall.
2. **Positive Economic Impact:** Improved bikeways and trails have been noted to improve property values in various studies and allow easier access to local business.
3. **Promote Sustainability:** This project will support sustainable growth by improving biking infrastructure (particularly in low-income and older neighborhoods) as a mitigation strategy to help reduce greenhouse gas emissions.
4. **Increased Safety for Cyclists:** By making safer cycling facilities we can expand the potential number of cyclists and pedestrians by increasing confidence in their personal safety.

In closing, I want to express my wholehearted support for this project. Together, we can make a difference in the lives of countless individuals and build a safer, healthier, and more equitable community for generations to come.



Thank you,

*Dante Armand Gonzalez*

Dante Armand Gonzalez

[www.letselevatenm.org](http://www.letselevatenm.org)



## Support for the 2024 Bikeway and Trail Facilities Plan

Jordon M <jbmccConnell26@gmail.com>

Sun 7/14/2024 11:15 AM

To: Planning EPC <PlanningEPC@cabq.gov>

[EXTERNAL] Forward to [phishing@cabq.gov](mailto:phishing@cabq.gov) and delete if an email causes any concern.

### RE: Support for the 2024 Bikeway and Trail Facilities Plan

Project #: 2024-010493

Case #: RZ-2024-00032

Hello EPC Commissioners:

I am an employee of UNMH-Project ECHO, a member of Strong Towns ABQ, and a Downtown resident. I am also a cyclist and public transit user and am excited by the potential opportunities for improved transportation contained in the 2024 CABQ Bikeways and Trail Plan.

I am writing to voice my **support** for the 2024 CABQ Bikeways and Trail Plan and the requests being brought forward to the Environmental Planning Commission on July 18th. This development is important for the health and wellbeing of our community, families, and friends, and will help New Mexicans in the following ways:

1. **Equitable Access to Jobs and Services:** By investing in low-income areas where access to cars may be limited we can provide equitable access to jobs and services.
2. **Positive Economic Impact:** Improved bikeways and trails have been noted to improve property values in various studies and allow easier access to local businesses.
3. **Promote Sustainability:** This project will support sustainable growth by improving biking infrastructure (particularly in low-income and older neighborhoods) as it encourages more people to cycle.
4. **Increased Safety for Cyclists:** By making safer cycling facilities we can expand the potential number of cyclists and pedestrians by increasing confidence in the system.

I have heard that the Sanitation Department has concerns about this plan, particularly in how the inclusion of separated bike lanes could disrupt trash collection. In addressing their concerns, separated bike lanes can be designed in a way that minimizes disruption to other activities, including trash collection. Innovative solutions such as flexible scheduling for collection times or design adjustments to accommodate both cyclists and sanitation vehicles and bins can effectively address logistical challenges. Cities across the country have successfully implemented separated bike lanes alongside efficient sanitation services, demonstrating that these concerns are manageable with proper planning and collaboration. Portland, Oregon, for example, has created cuts that allow for bins to be rolled out, as well as procurement of smaller sanitation vehicles for dense urban districts.

As a resident, cyclist, and employee in downtown Albuquerque, I have frequently encountered the dangers of cars parked or idling in bike lanes. These situations have led to near-misses and have sometimes resulted in confrontations when asking motorists to move their vehicles, which can be intimidating and unsafe. This aggression and lack of clear separation between bike lanes and vehicle lanes are significant barriers, particularly for new cyclists who may feel discouraged from cycling altogether.

Separated bike lanes are crucial because they clearly delineate where cyclists should ride, reducing conflicts with motor vehicles. In cities where separated bike lanes are implemented effectively, such as New York, Salt Lake City, Denver, and Minneapolis, these lanes not only improve safety but also encourage more people to cycle, contributing to healthier and more sustainable communities.

In the United States, cars in bike lanes create some of the largest conflict points for cyclists, leading to numerous injuries and fatalities each year. The implementation of separated bike lanes is not just about convenience; it's about saving lives and ensuring the safety of all road users. The concerns of the sanitation department regarding trash collection must be carefully weighed against the environmental benefits of bike lanes and the vital safety they provide. Innovative solutions, such as adjusting collection schedules, using specialized equipment, and accommodating bins in the lane plans, can effectively mitigate any potential logistical challenges while maintaining the integrity and safety of separated bike lanes.

In closing, I want to express my wholehearted support for this project. Together, we can make a difference in the lives of countless individuals and build a safer, healthier, and more equitable community for generations to come.

Thank you,

Jordon McConnell

[www.strongtownsabq.org](http://www.strongtownsabq.org)



Jonathan R. Hollinger  
Chair, Environmental Planning Commission  
City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

July 2024

**RE: Support for the 2024 Bikeway and Trail Facilities Plan**

Project #: 2024-010493

Case #: RZ-2024-00032

Hello EPC Commissioners:

I am a member of Generation Elevate New Mexico ("GENM"). GENM is a coalition of young leaders committed to positively shaping the future of New Mexico by championing smart, sustainable, and resilient growth development projects and governmental policies.

I am writing to voice my **support** for the 2024 CABQ Bikeways and Trail Plan and the requests being brought forward to the Environmental Planning Commission on July 18th.

As a biker myself, there's nothing better than having a nice weekend ride through the winding and lush trails through the bosque. This plan will ensure that our biking infrastructure only improves. The outdoors community is a massive value add to Albuquerque and the more amenities to promote outdoor recreation, the better.

In closing, I want to express my wholehearted support for this project. Together, we can make a difference in the lives of countless individuals and build a safer, healthier, and more equitable community for generations to come.

Thank you,  
JT Mitchell  
[www.letselevatenm.org](http://www.letselevatenm.org)

**From:** [Ciaran Lithgow](#)  
**To:** [Planning EPC](#)  
**Subject:** Support for the 2024 Bikeway and Trail Facilities Plan | Project #: 2024-010493 | Case #: RZ-2024-00032  
**Date:** Monday, July 15, 2024 5:55:13 PM

---

[EXTERNAL] Forward to [phishing@cabq.gov](mailto:phishing@cabq.gov) and delete if an email causes any concern.

Jonathan R. Hollinger **July 2024**  
Chair, Environmental Planning Commission  
City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

**RE: Support for the 2024 Bikeway and Trail Facilities Plan**  
Project #: 2024-010493  
Case #: RZ-2024-00032

Hello EPC Commissioners:

I am a member of Generation Elevate New Mexico (“GENM”). GENM is a coalition of young leaders committed to positively shaping the future of New Mexico by championing smart, sustainable, and resilient growth development projects and governmental policies.

I am writing to voice my **support** for the 2024 CABQ Bikeways and Trail Plan and the requests being brought forward to the Environmental Planning Commission on July 18th. This development is important for the health and wellbeing of our community, families, and friends, and will help New Mexicans in the following ways:

1.

**Equitable Access to Jobs and Services:** By investing in low-income areas where access to cars may be limited we can provide equitable access to jobs and services for the working population to be able to participate in the local economy overall.

2.

**Positive Economic Impact:** Improved bikeways and trails have been noted to improve property values in various studies and allow easier access to local business.

3.

**Promote Sustainability:** This project will support sustainable growth by improving biking infrastructure (particularly in low-income and older neighborhoods) as a mitigation strategy to help reduce greenhouse gas emissions.

4.

**Increased Safety for Cyclists:** By making safer cycling facilities we can expand the

potential number of cyclists and pedestrians by increasing confidence in their personal safety.

In closing, I want to express my wholehearted support for this project. Together, we can make a difference in the lives of countless individuals and build a safer, healthier, and more equitable community for generations to come.

Thank you, Ciaran Lithgow

[www.letselevatenm.org](http://www.letselevatenm.org)



Jonathan R. Hollinger  
Chair, Environmental Planning Commission  
City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

July 2024

**RE: Support for the 2024 Bikeway and Trail Facilities Plan**

Project #: 2024-010493

Case #: RZ-2024-00032

Hello EPC Commissioners:

I am a member of Generation Elevate New Mexico ("GENM"). GENM is a coalition of young leaders committed to positively shaping the future of New Mexico by championing smart, sustainable, and resilient growth development projects and governmental policies.

I am writing to voice my **support** for the 2024 CABQ Bikeways and Trail Plan and the requests being brought forward to the Environmental Planning Commission on July 18th. This development is important for the health and wellbeing of our community, families, and friends, and will help New Mexicans in the following ways:

1. **Equitable Access to Jobs and Services:** By investing in low-income areas where access to cars may be limited we can provide equitable access to jobs and services for the working population to be able to participate in the local economy overall.
2. **Positive Economic Impact:** Improved bikeways and trails have been noted to improve property values in various studies and allow easier access to local business.
3. **Promote Sustainability:** This project will support sustainable growth by improving biking infrastructure (particularly in low-income and older neighborhoods) as a mitigation strategy to help reduce greenhouse gas emissions.
4. **Increased Safety for Cyclists:** By making safer cycling facilities we can expand the potential number of cyclists and pedestrians by increasing confidence in their personal safety.

In closing, I want to express my wholehearted support for this project. Together, we can make a difference in the lives of countless individuals and build a safer, healthier, and more equitable community for generations to come.





Thank you,

*Sal Perdomo*

Sal Perdomo

[www.letselevatenm.org](http://www.letselevatenm.org)



Jonathan R. Hollinger  
Chair, Environmental Planning Commission  
City of Albuquerque  
600 Second Street NW  
Albuquerque, NM 87102

July 2024

**RE: Support for the 2024 Bikeway and Trail Facilities Plan**

Project #: 2024-010493

Case #: RZ-2024-00032

Hello EPC Commissioners:

I am a member of Generation Elevate New Mexico ("GENM"). GENM is a coalition of young leaders committed to positively shaping the future of New Mexico by championing smart, sustainable, and resilient growth development projects and governmental policies.

I am writing to voice my **support** for the 2024 CABQ Bikeways and Trail Plan and the requests being brought forward to the Environmental Planning Commission on July 18th. This development is important for the health and wellbeing of our community, families, and friends, and will help New Mexicans in the following ways:

1. **Equitable Access to Jobs and Services:** By investing in low-income areas where access to cars may be limited we can provide equitable access to jobs and services for the working population to be able to participate in the local economy overall.
2. **Positive Economic Impact:** Improved bikeways and trails have been noted to improve property values in various studies and allow easier access to local business.
3. **Promote Sustainability:** This project will support sustainable growth by improving biking infrastructure (particularly in low-income and older neighborhoods) as a mitigation strategy to help reduce greenhouse gas emissions.
4. **Increased Safety for Cyclists:** By making safer cycling facilities we can expand the potential number of cyclists and pedestrians by increasing confidence in their personal safety.

In closing, I want to express my wholehearted support for this project. Together, we can make a difference in the lives of countless individuals and build a safer, healthier, and more equitable community for generations to come.



Thank you,

Nicole Wilson, MPH

Albuquerque Resident and bicycle rider

[www.letselevatenm.org](http://www.letselevatenm.org)

7/18/2024 Unofficial Minutes  
Environmental Planning Commission Hearing  
Agenda Item #4  
PR 2024-010493 / RZ-2024-00032 for the 2024 Bikeway & Trail Facilities Plan

CHAIR HOLLINGER: and we'll move to agenda Item number 2. Who will be doing the presentation for staff?

CATHERINE HEYNE: Good morning, Chair Hollinger. This is Catherine Heyne, and I am staff that will be making the presentation this morning.

CHAIR HOLLINGER: Good morning. Will you state your name and address for the record?

CATHERINE HEYNE: Sure my name is CATHERINE HEYNE, and my address is 600 Second Street, northwest Albuquerque.

CHAIR HOLLINGER: Will you raise your right hand, do you swear to tell the truth, under penalty of perjury?

CATHERINE HEYNE: I do.

CHAIR HOLLINGER: Thank you very much. You have 5 min. Please proceed.

CATHERINE HEYNE: Thank you. Is everybody seeing my screen?

CHAIR HOLLINGER: Yes.

CATHERINE HEYNE: Thank you. So good morning, Mr. Chair, Commissioners and members of the public. My name is CATHERINE HEYNE, and I'm 1 of 2 staff planners assigned to this case. Robert Messenger, senior planner, also reviewed this case. This is agenda item number 2, PR 2024-010493 RZ-2024-00032. This request is for the Environmental Planning Commission to conduct a public hearing on the application to make a recommendation to the City Council on the proposed 2024 Bikeway and Trail Facilities Plan. This plan is an amendment to the 2015 Bikeways and Trails Facility Plan, a document that will apply citywide for all land uses and zone districts. The 2024 Bikeway and Trail Facilities Plan is a rank 2 plan that provides direction for the city's infrastructure investments. It implements the comprehensive plan goals and policies specifically in regards to Bikeways and Trail facilities within the city facility. Facility Plans are required to be heard through a public hearing process with the EPC. Making a recommendation to City Council, who will then make a final decision. The 2024 bike plan network will be integrated into the regional long-range bike way system that is maintained by the Mid-region Council of Governments or Mr. Cog. The city began planning for bikeways in the early 1970s and by 2015 the Bikeways and Trails Facility Plan combined and updated both the city's 1993 trails and Bikeways Facility

Plan and the 2000 Comprehensive On-street Bicycle plan to more easily manage the bicycle and trail network. Major new policies and regulatory documents have come into effect at all levels of government. Since the adoption of the 2015 plan, therefore, the 2024, Bikeway Trail Facilities Plan update reflects current national best practices as well as recently adopted City plans and Ordinances, such as Vision Zero Action Plan, the Climate Action Plan and the complete Streets Ordinance. The 2024 Bikeway and Trail Facilities, plan stresses in all ages, abilities and backgrounds approach that emphasizes equity as a primary consideration for prioritizing bike facilities. This includes considering areas or the area's social demographics to ensure and improve distribution of bikeways across the city. The request is generally consistent with the applicable comprehensive planning goals and policies. Here's the table of the major changes and consistencies in the 2024 bike way and trail facilities plan in comparison to the 2015 plan. I won't read this verbatim, but I wanted to present it here as a general summary. But most importantly, the 2024 bike way and trail facilities plan aligns with the recently adopted city plans and policies with an equity lens, and the main focus is to create a safe place for all ages, abilities and backgrounds, to bike with the anticipation of encouraging more people to choose biking as an everyday form of transportation. Proposed projects are prioritized and evaluated throughout the document. The 2024 Plan does not consider certain elements covered in the 2015 plan, for example, it doesn't include unpaved trails, equestrian needs, and recreational facilities within the city parks and open space. Instead, these items are preserved within the 2024 Plan but revisions are possible as needed. Representatives of all neighborhood associations that are on file with the office of neighborhood coordination were notified of a final informational meeting, and all neighborhood representatives were also notified of the July 18th 2024, hearing as required by the Integrated Development Ordinance, IDO 14-16-6-7-B. Written comments of support of both the adoption and implementation of the 2024 BTFP, or the the Bike Trails Facility Plan were received from 5 community groups, representatives and their members, including the active Living Work Group, the Greater Albuquerque Active Transportation Committee, the greater Albuquerque Recreational Trails Advisory Committee, the president of Bike Albuquerque, and the Bike Albuquerque Board of Directors. This last letter included signatures from 125 members of the public, some of whom who added comments in support. An additional 7 letters of support were received and included in the 48-hour material. One phone call received was with concerns about e-bike speeds and e-biking being allowed on bosque and paved trails. and there's no known opposition of this writing. Staff recommends that a recommendation of approval be forwarded to the City Council for the request for amendment of facility Plan-EPC regarding project number 2024-010493 case number RZ-2024-00032. Staff has a new recommend, so and but anyways, I just wanna let you know that Staff has a new recommended condition of approval added to the number 6, and we'd like to share that with with the Commission if it is the pleasure of the Commission, we can share it now, or wait until later and with that we stand for questions.

CHAIR HOLLINGER: Thank you, Miss Heyne. Let's go ahead and get that up just so we can all see it now.

CATHERINE HEYNE: Sure, let's see if we can, can you all see that?



CHAIR HOLLINGER: We can thank you.

CATHERINE HEYNE: So, this last condition of approval is when we were finalizing just going through the final report, we've this is in reference to figure 7 and 8 on pages 40 and 41 of the Bike and Trail Facilities Plan and those figures are, do not have a legend, and we recommend that a legend be added labeling the map color scheme and associated Bike way features and I can pull that up if you would like to see that.

CHAIR HOLLINGER: Sure.

CATHERINE HEYNE: This is the one of the, this is figure 7, and although it's well stated over here in the text, we believe that it would help the public if a legend is added to this figure, so that we understand what is being presented.

CHAIR HOLLINGER: Straightforward, makes sense.

CATHERINE HEYNE: And then the second figure is on the next page, figure 8, the bicycle network and a analysis results and again, it's well described over here in the text. However, just looking at the figure, we think that a legend would be appropriate.

CHAIR HOLLINGER: Very well, thank you for the presentation Miss Heyne, I have some questions but I think I'll wait to hear the applicant. Commissioners any questions for staff?

VICE CHAIR EYSTER: Eyster.

CHAIR HOLLINGER: Vice Chair.

VICE CHAIR EYSTER: Thank you Chair and a a actually, I I like what you said. I'm going to wait and hear from the applicant, because we may get the answer in in that presentation.

CHAIR HOLLINGER: Very well any other commissioners? Seeing none, we can move to the applicant's presentation.

VALERIE HERMANSON: Mr. Chair. This is Valerie Hermansen, and I also have with me Mr. Aaron Sussman.

CHAIR HOLLINGER: Good morning. Will you state your name and address for the record?

VALERIE HERMANSON: Valerie Hermansen, 400 Marquette Northwest, Albuquerque, New Mexico, 87102.

CHAIR HOLLINGER: Thank you. Will you raise your right hand, do you swear to tell the truth, on a penalty of perjury?

VALERIE HERMANSON: I do, yes.

CHAIR HOLLINGER: Very well, and the other member you said that would be presenting?

VALERIE HERMANSON: Mr. Aaron Sussman.

CHAIR HOLLINGER: Are you with us, Mr. Sussman?

AARON SUSSMAN: I am, good morning.

CHAIR HOLLINGER: Good morning. There you are! Will you state your name and address for the record?

AARON SUSSMAN: Yes, my name is Aaron Sussman. My address is 423 Quincy Street northeast, Albuquerque, New Mexico, 87108.

CHAIR HOLLINGER: And will you raise your right hand, and do you swear to tell the truth, on a penalty of perjury?

AARON SUSSMAN: I do.

CHAIR HOLLINGER: Thank you very much. Okay, thank you both for swearing in. You have 10 min, please provide us presentation.

VALERIE HERMANSON: Great! I think Mr. Sussman is going to share his screen if we can get permission to do so. Okay, great Mr. Chair, members of the Commission and members of the Public. Thank you for having us, my name is Valerie Hermanson, and I work at the city of Albuquerque at the Department of Municipal Development, where I get to work on active transportation, traffic safety and updating the city's Bikeway and Trail Facilities Plan. I also have with me, Mr. Aaron Sussman, from Tool Design, who, in addition to WSP were our consultants that worked with us to update the city's 2015 bikeway trails, facilities plan. Next slide. So, it's been nearly a decade since the city took a comprehensive approach to look at its bicycling infrastructure and the needs of people who bicycle. In that period best practices for bike facility design have evolved significantly and shifted toward creating low stress, comfortable, safe, all ages, abilities and backgrounds, bikeway networks that not only serve people for recreational trips, but also

transportation. Since the previous plan was adopted in 2015, the city has also adopted major new policies, regulatory documents, including those listed here. Updating the Bikeway and Trail Facilities Plan served as an opportunity to not only incorporate those best practices and emerging best practices, but also to create consistency and alignment with these newer plans and policies. So, this plan serves as a mechanism, not only to further those plans and policies, but to implement them. Our project team took a critical view of existing conditions in the bikeway networks, and we really emphasized equity and safety because many of Albuquerque's disadvantaged communities that rely on walking, biking, and transit to get around to meet daily needs, experience a disproportionate number of traffic fatalities and serious injuries, yet don't have low stress bikeways. 3 targeted phases of outreach also informed the development of this plan in addition to stakeholder engagement, and we wanted to make sure that what we were putting together met what our community needed. I'm going to turn it over to Mr. Sussman, who is going to provide more information and how we approached updating this plan.

AARON SUSSMAN: Thanks, Val, so let me start by giving a brief overview about the general plan and purpose. So, this was a really comprehensive effort, it's a large city geographically. What we've tried to do is recommend and prioritize on-street bikeways and paved multi-use trail projects across the extent of the city. As Val mentioned, there's emerging practices and how we identify appropriate bikeway facilities. We've taken a real data-driven approach that emphasizes bike quality and user comfort. One thing that we'll speak to in just a moment. Is that not all bikeways and not all lines on a map are created equal. So we've really thought about, how do we ensure that the underserved communities have better connections, and that we're providing appealing and safe options for people of all ages, backgrounds, and abilities. One point that we want to emphasize. This is a plan that focuses on on street bikeways and paved trails, but providing those quality facilities, creates recreational benefits, even though we're focusing specifically on transportation needs. Again, a systematic review meant that we're looking at a very large geographic area but we're focusing on how do we provide consistent quality connections to everyday destinations. And so, as part of those sets of analyses, we've looked at the feasibility of potential improvements, the timeframe at which potential improvements could be completed and then how the city might go about actually making those types of a project come to fruition and become reality. One thing that we wanna emphasize is that this is a long comprehensive plan. It's a look at a really wide set of project needs implementation for each of these individual projects is all ultimately gonna require location, specific analysis, further design efforts and further package efforts. Val spoke to the sets or the phases of outreach that we conducted. I just want to speak to some really key takeaways from one of our outreach phases and how we've tried to respond to those sets of needs. So, what we determine is that a majority of bicycling trips continue to be for recreational purposes across the city but we view that as an opportunity, then, if we can create safe, comfortable facilities to increase the types of trips that are taken by bicycle safety is a really really high priority among everybody that we spoke to concerns about drivers going too fast conflicts and major intersections. So our recommendations try to speak to those types of concerns. We also hear consistently, people feel more comfortable biking when there's more separation from motor vehicles and our plan recommendations

response to those types of feedback that we received. We tried to organize this plan around a series of goals, creating equitable opportunities for bicycling that appeal to users of all ages and abilities, creating a connected network of low stress corridors, but not just having a connected network. Facilities need to go places so having a useful network that provides access to a range of destinations is really critical. We've worked really hard to make sure that this planning effort is integrated with the work that takes place at the city, the county level, that there's an integrated set of planning decisions and processes that take place and we've also applied a data driven prioritization process to identify these projects and think about how which the order in which they should be recommended. And then, finally, it's really critical as part of this plan, that these projects are implementable or technically feasible, and that things that can be maintained over time with resources. So, a key theme is that there are a lot of really good building blocks for bicycling in Albuquerque. We've got these great multi-use trails a lot of them provide comfortable, low stress options. We've got a lot of quality opportunities for people to bike along neighborhood streets except at crossings when they get these major barriers. When we have bikeways along some of the major streets many of them are what we consider high stress and along high speed roads they're not very comfortable or appealing for most bicyclists. You see that in the red and orange colors on this map, then all of a sudden our network of bikeways becomes more limited. If we start to take away those higher stress facilities. So, we thought about what would it take to create lower stress facilities and again applying a systematic approach to creating a robust and low stress network and so what makes for a low-stress facility is going to depend on the context, the traffic volumes, the speeds. We're using this chart on the right from the FHWA, our highway administration by purpose selection guide as a real foundation for what we're doing. We're also we also put a lot of emphasis into looking at crossings. I think we all can envision streets to look like this one along Wyoming, where we have a trail that intersects with a 6 or 7 main roadway. The city is doing some excellent work in terms of increasing the comfort and safety of these kinds of crossings like the image on the right at Carlisle and Macklin, the Hawk signal hybrid beacon in front of International District Library in the lower right. These kinds of recommendations are really critical. So, we put together this comprehensive network of recommendations. They're not just lines on a map. We identify the proposed facility type, the timeline for implementation and what we mean by that is something is plausible in the near term. That doesn't mean that it will happen, but it means that it could happen if existing resources and city staff pass a year are there versus long term projects that are going to require further engineering analysis, higher levels of funding just more complicated projects to identify how the city can go about implementation and then planning what will cost estimates. So that city staff and elected officials can make quality decisions. These recommendations include new bikeways in particular, expanding the network of bike boulevards, we recommend a number of separated bike lanes, this is a newer facility type. The first set of separated bike lanes in the city are just being installed now along Louisiana Boulevard but it's a really critical facility type for creating more comfortable conditions. We also recommend enhancements to existing bike ways, increasing the comfort level by transitioning buffered bike lanes to separated bike lanes with a physical barrier of some kind, and then neighborhood bike routes into bike boulevards that have more formal traffic, falling techniques and enhanced crossings at major intersections. Altogether. we're recommending 360

miles of new bikeways. We're also recommending more than 250 improved or enhanced crossings of various types across the city. We've applied a comprehensive evaluation process using the criteria that are shown on the screen with factors that are directly connected to the plan goals looking at things like safety, equity, access to destinations, improvements to the network. Can we improve the quality and comfort level? The potential for bicycle trips based on the characteristics of the project area and then community input as well, where we had an interactive map and pop-up exercises to allow people to prioritize to rank and prioritize projects across the city does are integrated into our prioritization. approach. If you see this map on the screen which shows the results of those prioritization efforts. One thing that we really wanna emphasize what we have prioritization and values associated with each project. Project selection is ultimately going to be based on, not just the priorities for, but based on things like the timeline, available resources, the costs and the technical challenges and overall feasibility. So, it's important to emphasize, gone through that technical process, identify these improvements but there's still constraints on implementation. The last thing that I want to speak to is that there's a number of policy and programmatic recommendations that are included in this plan. There are a lot of things that the city's doing well right now that are really working the complete streets maintenance program which restripes and resurfaces roads consistently across the city becomes an opportunity for further bikeway implementation. The Esperanza Bicycle Safety Education Center is a wonderful resource. The city has a bicycle trail crossing Guide which informs the appropriate crossing types and again, there's a really high level of city and regional coordination that takes place. We recommend updates to the city's development process manual, the technical standards to support the kind of low stress bikeways and emerging best practices that we speak to strategies to reduce overall dependence on vehicles, to clarify and organize the system through safe signage and wayfinding a maintenance plan to to help make sure that what gets implemented is maintained over time and then I think really critically, and I know I'm over time, is finding additional funding and resources for staff to plan design, implement and maintain bikeways is really, really critical and we speak to that. So, let me ask Val to close things out.

VALERIE HERMANSON: Yes, we respectfully request that EPC approval be forwarded to City Council. We hope we made it clear that this plan update really does further and align with existing city policies, and we look forward to the discussion that follows, thank you.

CHAIR HOLLINGER: Thank you both, for your presentation sounds like it's very well thought out. I have some questions, but I'll ask my fellow commissioners. Do you have any questions for the applicant? Very well, I'll get started then. So, you said that safety was a concern, how do you plan to keep the pathways clear? To ensure that that the path that you're on isn't obstructed by garbage, and such homeless people things like that.

VALERIE HERMANSON: Mr. Chair, members of the Commission that's a great question and it's one that came up during our outreach efforts and a lot of those comments really did inform our maintenance



recommendations. So, the plan identifies the need to increase funding as well as staffing capacity to improve maintenance of both on and off-street bikeways. So, my my division or department of Municipal Development we manage all of the on-street bikeways and so we do have staff that that maintain those typically through 311 requests but I do wanna note, you know, as we have a major rain events such as those a few weeks ago. I've been out biking, and I've noticed, you know, a lot of our bikeways got disturbed by that rain event, and I reported it to 311 and it and it got addressed really quickly but as we build more bikeways, we're gonna need to increase funding for the maintenance component. And then, with regard to off street bikeways, such as our multi-use trails, those are overseen by Parks and Recreation, and I think I noticed Whitney Phelan is here, they also have their maintenance protocols and again, there's the plan makes a recommendation to increase funding as well as staffing capacity to be able to maintain our off street facilities if they don't feel safe both on and off street facilities people aren't going to choose to use them. And so that is a major recommendation within the plan and then I did notice that Whitney is here, and I want to make sure to give her the opportunity to speak. Should I, should she have anything to add.

CHAIR HOLLINGER: Okay, so the follow-up part of that question is in regards to funding. Can you remind us where that could potentially come from?

VALERIE HERMANSON: Yeah, so currently, we receive a 5% set aside from the general obligation bond, which is the G.O. bond and a lot of those funds tend to serve as matching dollars for Federal funding. So, whenever the city applies for Federal funds, it's important to note that there is typically a required match more often than not it's 20% and so a lot of those G.O. bond funds go toward matching dollars but we can also use them for maintenance and operations. Some other funding sources or transportation tax. If Council, sometimes they use some of their set aside it there's we, we get creative, right? We have limited resources, and we do our best to get creative with where we can find funding. I think there is also opportunities, you know, to should this be a priority, you know, for our communities, for the city to identify new and additional funding sources to support maintenance.

CHAIR HOLLINGER: Very well, thanks for that. So that G.O. bond that's rather important to you guys.

VALERIE HERMANSON: Absolutely.

CHAIR HOLLINGER: Commissioners any additional questions?

VICE CHAIR EYSTER: Eyster.

CHAIR HOLLINGER: Vice Chair.

VICE CHAIR EYSTER: Thank you Chair, thank you Miss Hermansen, thank you, Mr. Sussman. Nice to see you, Mr. Sussman, it's been a while. I wonder about how you plan for, say, a motorized bicycle that

might be quite heavy and move quite fast when you have a little family with the little kids riding behind Mom and Dad.

VALERIE HERMANSON: That's a great point Vice Chair Eyster members of the Commission, That actually came up during our outreach as well, and I know that Miss Whitney Phelan, who I keep referencing, she's the senior planner over at Parks and Rec and was our Staff Representative from Parks and working with us to update this Bikeway and Trail Facilities Plan and based on our research with best practices. When it comes to e-bikes, they're becoming more prevalent, I own one, actually and I use it. With regard to off street facilities, what we've noticed other jurisdictions doing is that it's really important that we create wider facilities to create more space for different speeds of of people using facilities. You know, our paved multi use trails, there's gonna be people walking, there's gonna be families walking, there's gonna be people running, there's gonna be people bicycling, and there's gonna be e-bike riders. And so if we create a a wider facility, it can help to accommodate a different range of people using that facility. The plan does recommend that we update the DPM to make a recommendation for a minimum width for our off street facilities to be wider, so that when we are planning and building these, or should there be opportunities to widen existing facilities that would become a requirement with updates to the DPM. With regard to off street facilities, I think the same rule applies, you know, if it's a little bit wider of a bike lane. That can also help to accompany users passing each other at a safe safely.

AARON SUSSMAN: And Commissioner, if I could just add one more point to you. We we put a lot of effort and thought into creating not just the set of recommendations that we presented before you, but a concrete, a complementary set of network recommendations that appeal to a different range of bicyclists. And so there is people travel different speeds that does create challenges and so having different facility types that appeal to different user types was part of that set of network recommendations. For example, in Kulu, a lot of bike boulevard recommendations which tend to be appealing for families and people traveling at lower speeds. People on e-bikes may find it more comfortable to travel along higher speed roadways, because the speed difference with motor vehicles isn't as great but the point of having a range of facility types was really critical part of that thinking as we bump out of the network recommendations.

VICE CHAIR EYSTER: Thank you, that makes a lot of sense. So, there may be some of those facilities that you just don't take your little guy out on and some where it's really good to take your little kid out. So, if they are wider, Miss Hermansen, then is there a is there a protocol among users? Where you would have, you know, slower traffic to the right, or something like on a like on a highway?

VALERIE HERMANSON: Vice Chair, Eyster, members of the Commission. Yes, there, there is some education, some complementary education and I know part of the plan does make recommendation for different wayfinding signage to enable people to better access facilities, and I think complementary to that wayfinding signage is educational signage, you know, state of the right, announce yourself when passing. You know some of these off-street pave multi use trails do cross adjacent to unpaved trails, and while we

didn't address unpaved trails, you know there are equestrian users on those trails, and people riding horses might be using the paved trails temporarily, and I know there are some signs, you know, that indicate how the best practices for yielding and so the plan does make recommendations related to improving education and signage.

VICE CHAIR EYSTER: Yeah, I like that idea about the education and sometimes you see and flyers in your water bill or in in some other bills that where they say, you know, let's help to adopt pets or let's save water. I don't know why we don't use more of those. Really, I could see a flyer that talks about protocol for safety on bike trails, or this isn't this is only loosely related but a flyer that says, when you're on in your car let's take some care with bicycles, or let's try to drive kind. Yeah and I wish DMD would do more of that, thank you. Thank you Chair.

CHAIR HOLLINGER: Thank you Vice Chair to piggyback on that question, maybe just to reiterate you talked about education and signage. Will signage be included on the trails? Like, as you mentioned, stay to the right.

VALERIE HERMANSON: It's identified in the plan as a recommendation to create an on and off street coordinated wayfinding signage program. So, what that would mean is DMD and Parks and Recreation would get together to create consistent signage so that should you switch from one facility to an off-street facility it's consistent and so that is a plan recommendation. It would require funding to make it happen, but as Aaron mentioned, and Mr. Sussman mentioned in his presentation, this is a long range plan, so there are a lot of near-term midterm and long term action items, and that is identified in the plan.

CHAIR HOLLINGER: Wonderful, thank you. Commissioners, additional questions? Commissioner Carver.

COMMISSIONER CARVER: Thank you Chair Hollinger. Yeah, this is Commissioner Carver I am curious a little bit more about the implementation and the plan for pursuing funding to go after this. Could you say a little bit more about the like what are those challenges and those barriers to implementation?

VALERIE HERMANSON: Yes, Mr. Carver, members of the Commission. Yes, I wanna reiterate, I wanna be realistic, funding is a challenge. As well, staffing capacity, you know, if we get a lot of funding to build a lot of these facilities, we do need staff to be able to plan, design and administer and implement a lot of those plans. We like, I mentioned before, we do get creative with the funding sources that we do have available. One of the benefits, and I don't think we mentioned this in our staff report, which I'm regretting, including. Typically, when we apply for Federal funding it's really important to have an approved plan, such as the Bikeway and Trail Facilities Plan, because what it does is it gives you permission to apply for those Federal grant opportunities and also gives you more points. When you, you're able to show that we've done this comprehensive plan, you know, aligns with our community values as well as our existing plans

and policies. So, the plan does set us up to be able to apply for Federal funding. I hope that helps address it and then, with regard to other funding sources, through the Mid Region Council of Government, they have a transportation improvement program which also administers Federal funding. The city and I noticed Debbie Bauman, who is our funding guru. We get creative with applying for Federal funding through Mr. Cog, and we use those funding sources. We also, through our automated speed enforcement program, if there is any remaining revenue generated through fines associated with that program per the state statute those funds must go toward traffic safety efforts. And so I do wanna mention that because many of the funds that we've used we've generated through that program have gone toward projects that are including walking and biking infrastructure. So, we've been able to cobble together multiple fund sources to make a lot of these things happen.

COMMISSIONER CARVER: Thank you Miss Hermanson, Mr. Chair, I'm curious if there is, do you have like a roadmap for pursuing funding? Or like a you know, a general you know the plan for how that will that will that will happen? And would you be open to a condition of approval, if that doesn't exist, would you be open to a condition of approval to have include a kind of parallel funding roadmap?

VALERIE HERMANSON: Mr. Carver, members of the Commission. There isn't really a roadmap, the plan does identify eligible funding sources and it really is contingent on capacity. My division alone, we're very short staffed. I have 3 staff vacancies currently and so we could create a roadmap, but without staff capacity to plan, implement and administer Federal funds it can be really difficult to stay on top of it. So, I think it's but the plan, I do wanna note, we did prioritize all of the projects and we did identify near term and long term and so another mechanism to being able to implement these projects is through our annual complete streets, restriping program in which streets get repaved and when there's a recommended bikeway facility, we look to accommodate that bikeway facility, that's another way we get creative, where we might not have to identify a specific fund source. It's within an existing program, but within the larger of, you know, applying for Federal grants because the projects are prioritized. You know we would work with the the administration as well as City Council, in identifying which projects are shovel ready, and shovel worthy, which is something the Federal Government really encourages local jurisdictions to make sure their projects are ready before applying for Federal funding. I hope that helps address a little bit more of your your previous question and your current question.

COMMISSIONER CARVER: Yeah, thanks, Mr. Chair and thanks Miss Hermansen. I'm I guess I for sure recognize the challenges of staffing and capacity. I wonder if having a plan might help staff help the City staff and yourself have that conversation with the City and create more of an argument of why they need to focus on filling those spaces or increasing that those that capacity. So just one more time would you be open to a condition of approval for a like an implementation plan for funding?

VALERIE HERMANSON: Mr. Carver. Yes, of course we would be open to that condition of approval.

COMMISSIONER CARVER: Great, thank you. Mr. Chair, perhaps Staff could help us draft a new condition of approval for that? That, reflects that.

CHAIR HOLLINGER: I think we could do that, I believe it would be a recommendation of approval. Since we're not actually voting, we're sending a recommendation to Council. I think we could do that, Commissioners any additional questions?

COMMISSIONER MACEACHEN: Chair.

CHAIR HOLLINGER: Yes, Commissioner MacEachen.

COMMISSIONER MACEACHEN: I really liked the presentation, I thought as well thought out and well presented. I would wouldn't want to burden them further with another short staff requirement that they create some financing path or roadmap when they're gonna have to do that, anyway. So, I don't think I could support putting, adding that to what they've already done and what they're gonna have to do.

CHAIR HOLLINGER: Would you be open to a finding?

COMMISSIONER MACEACHEN: I'm generally a complication free guy, but if that's what we all agree to fine. I just let's not heap more responsibility and additional work on there, they're gonna have to find funding, they know they're gonna have to find funding, they know where to find funding. So, for us to go ahead and just add something to add it to feel good about it, I just couldn't support.

CHAIR HOLLINGER: I guess we'll cross that path when we get there, any additional questions? Miss Hermanson, I had one last question. In terms of connectivity for the infrastructure I know that some other trails that have been developed lack the connectivity. Will this be a complete path, if you will?

VALERIE HERMANSON: Mister Chair, members of the Commission. Yes, when we approached planning the holistic and comprehensive bike way, we definitely looked at gaps within the existing network, and looked to fill those gaps with low stress, safe, comfortable, all ages and abilities networks. So, that's a great question.

CHAIR HOLLINGER: Wonderful, if there are no additional questions. We can move to public comments, any last chance Commissioners? Looks like none, Miss Chavez, I see we have several people signed up from from the public.

CHRISTINA CHAVEZ-GONZALES: Yes, Chair Hollinger, our first Speaker, is going to be Keith Morris.

CHAIR HOLLINGER: Mr. Morris, you with us?



KEITH MORRIS: Yes, I am.

CHAIR HOLLINGER: Welcome will you state your name just for the record?

KEITH MORRIS: Keith Morris, 324 General Somerville Northeast 87123.

CHAIR HOLLINGER: Thank you. Will you raise your right hand, and do you swear to tell the truth, under penalty of perjury?

KEITH MORRIS: I do.

CHAIR HOLLINGER: Thank you, you have 2 minutes.

KEITH MORRIS: Thank you, so I I thanks for putting forward this this bike trail plan. I'm a daily bicycle commuter, and I have been or about 10 years and so my primary concerns are with bike commuting transportation and one there there even in the new plan I noticed there are several areas where bike lanes just end and one example is Carlisle, north of I-40, Copper west of Louisiana. You bank north of Southern and these seem to be remain the same in the new plan. Is there a is there reason for that? And I'm sure there there are others, too but those are the ones I encounter frequently. Is there a plan to address those? What are we supposed to do when a bike plan ends? The I-40 overpass at Moons through Easter Day is closed, I discovered that last time I tried to use it and no alternate route is provided know if we do that does the bike I didn't notice new overpasses of I-25 on the south side of town and can I get clarification on using a e-bike putting e-bikes on the bike racks and buses. I have a I've been told by bus drivers that I not allowed to put an e-bike on the front of a bus. Thank thank you, that that's the extent of my comments and questions.

CHAIR HOLLINGER: Well, thank you. So, I think what we'll do, Miss Hermanson if you can just make note of everyone's questions, since we have several speakers lined up we'll allow everyone to ask their questions. Then we can address those during the applicant closing. So, thank you for your time, Mr. Morris and Miss Chavez, who's next?

CHRISTINA CHAVEZ-GONZALES: Chair Hollinger and Commissioners, our next speaker is going to be Erin Thornton.

CHAIR HOLLINGER: Good morning, I can't hear you yet.

ERIN THORNTON: Should have tested the audio.

CHAIR HOLLINGER: Now we hear you.

ERIN THORNTON: Okay, you can hear me now.

CHAIR HOLLINGER: Yeah.

ERIN THORNTON: Okay, excellent. Hi Erin Thornton, my address is 4033 Smith Avenue, Southeast Albuquerque, 87108.

CHAIR HOLLINGER: Thank you, and will you raise your right hand, and do you swear to tell the truth, under penalty, perjury?

ERIN THORNTON: I do.

CHAIR HOLLINGER: Thank you very much, you have 2 minutes.

ERIN THORNTON: Great. I'm just here to further voice support for the current bike plan. I think it's really important for the city to have this forward-thinking plan that includes a lot of connectivity. I'm very lucky that where I live is already a region of great connectivity, and I've taken lots of friends from my house onto bike rides to places like green jeans and nob hill and different areas and it's gotten them very excited. However, whenever they try to replicate the same thing in other parts of town where they live. They haven't found the connectivity to be so good. It's kind of squashed the goal like the desire to bike for them and I think this is a really important step forward in creating a much more equitable outcome for people of all abilities to be able to participate in free, that like free movement around the city. So I hope that the Commission chooses to send this forward with their approval to City Council. Thank you very much.

CHAIR HOLLINGER: Thank you for your time this morning. We appreciate your voice of support.

VICE CHAIR EYSTER: Eyster.

CHAIR HOLLINGER: Vice chair. Do you have a question?

VICE CHAIR EYSTER: Yeah, thank you Chair. Thank you for appearing this morning, Miss Thornton. I wonder if in the course of of your involvement in the development of the plan, were there ideas that the community had, that the biking community had, that could not be included or were not included and should be included?

ERIN THORNTON: I'm not speaking on behalf of any other organization right now. This is just me being excited, I think probably Keith, with Bike ABQ, might be able to give a better answer to that.

VICE CHAIR EYSTER: Good well, we'll we'll do that. Since we're doing this once every 10 years if there's a few things that people really wanted, I I would love to get those in the conditions if they're appropriate. Thank you for appearing today.

ERIN THORNTON: Thank you.

CHAIR HOLLINGER: Thank you Vice chair. Miss Chavez, who's next?

CHRISTINA CHAVEZ-GONZALES: Yes Chair Hollinger, our next speaker is going to be Keith Stubbs.

KEITH STUBBS: Hello, everyone my name is Keith Stubbs. My address is 305 Carlisle Boulevard, Southeast in Albuquerque. I'm speaking on behalf of Bike ABQ as you guys know, it's a nonprofit organization dedicated to making bicycling in Albuquerque safe.

CHAIR HOLLINGER: One second. Let's get you sworn in as well, will you raise your right hand?

KEITH STUBBS: Sorry about that.

CHAIR HOLLINGER: And do you swear to tell the truth, on a penalty of perjury?

KEITH STUBBS: I do, yes.

CHAIR HOLLINGER: Okay, thank you for that. You have 2 minutes, please proceed.

KEITH STUBBS: Okay sure, I'm speaking on behalf of Bike ABQ a nonprofit organization dedicated to making bicycling in Albuquerque safe and accessible for all ages and abilities. Research shows that safety concerns are the primary barrier to cycling. The 2024 update to Albuquerque's Bikeways and Trail Facilities Plan presents a comprehensive strategy to improve the city's fragmented cycling infrastructure. The plan includes new and upgraded facilities, enhanced road crossings and tools for designing effective bike boulevards and multi-use trails, making bicycling safe for safer and more convenient for all residents. We sincerely thank the project team for their hard work in updating this plan in preparation for this meeting we drafted an open letter, fully supporting the approval of the plan update and invited the public to sign and provide input within just 3 days we received 125 responses from the community, resulting in a 14 page public comment that we submitted for the Commission's consideration. An additional 29 responses were received after the open letter was submitted. This is a truly amazing, demonstrates not only the strength of the bicycling community in Albuquerque, but also the strong desire for the improved infrastructure that the plan update promises. We strongly support the proposed bikeways and trail facilities, update and encourage the Commission to approve the plan and recommend its approval to the City Council and also following up

on Vice Chair Eyster's question. I wasn't as fully involved in the formulation of this plan as Aaron and Valerie were so, I would probably defer that question to them but thank you very much.

CHAIR HOLLINGER: Thank you for your time, we appreciate all your comments. Miss Chavez, who's next?

CHRISTINA CHAVEZ-GONZALES: Yes Chair, our next Speaker is going to be Dante Gonzalez.

CHAIR HOLLINGER: Good morning Mr. Gonzalez.

DANTE GONZALEZ: Good morning can you guys hear me?

CHAIR HOLLINGER: We can.

DANTE GONZALEZ: Alright, I'm Dante Gonzalez, address is gonna be 4501 Morris Street Northeast, apartment 3129, Albuquerque, New Mexico, 87111.

CHAIR HOLLINGER: Thank you, and will you raise your right hand, and do you swear to tell the truth, under penalty of perjury?

DANTE GONZALEZ: I do.

CHAIR HOLLINGER: Thank you. You have 2 minutes.

DANTE GONZALEZ: So I am a board member of an organization called Generation Elevate New Mexico, and our purpose is to promote and support projects and policies that we feel would benefit New Mexico overall. We voted to support this plan update because we feel that this would be incredibly beneficial to really the quality of life within this city. I, personally am an avid dog walker, and I go and runs with my friends fairly frequently, and I make use of the multi-use trails share trails across the city, and I see plenty of people making use of them as well. I have a lot of friends who prefer to bike instead of drive, and I have heard a lot of concerns regarding safety. At the crossroads and on bike lanes on you know, roads where vehicles are located and so the updates that this plan provides to the safety of these trails and allowing even more accessibility for these multi use trails, I feel would really really benefit everybody in the City of Albuquerque. I feel, though, that it's a great investment within the community and by adding these shared trails I feel like it makes the value proposition of living in Albuquerque and moving to Albuquerque much higher. Really just benefiting Albuquerque for the future and for future people who want to come and live here and so I would strongly strongly recommend that the EPC support and recommend this plan for approval, thank you.

CHAIR HOLLINGER: Thank you, Mr. Gonzalez, we appreciate your comment. Miss Chavez, who's next?

CHRISTINA CHAVEZ-GONZALES: Yes Chair, our next Speaker is going to be Carlos A. Strofer.

CHAIR HOLLINGER: Morning, Mr. Strofer.

CARLOS A. MICHELEN STROFER: Hi! Can you hear me?

CHAIR HOLLINGER: We can.

CARLOS A. MICHELEN STROFER: Yeah, my name is Carlos Michelén Ströfer address 300 Tijeras Avenue Northeast, apartment 101, Albuquerque, New Mexico, 87102.

CHAIR HOLLINGER: Thank you, and will you raise your right hand and do you swear to tell the truth, under penalty of perjury?

CARLOS A. MICHELEN STROFER: I do.

CHAIR HOLLINGER: Okay, you have 2 minutes.

CARLOS A. MICHELEN STROFER: Alright, yeah. I just wanna express my support for the plan I commute by both driving and biking I bike to wherever I feel safe and I will say that the City has been creating a lot of bike lanes recently at a very increased rate. Since the adoption of the Complete Street Ordinance and Division Zero Ordinance and this will likely continue, and I think they built on the order of like hundreds of new bike lanes but many of these are been very ineffective. The real metric should be how much is the infrastructure being used? Not just how much new infrastructure we build and two reasons they're not being used a lot is because they're dangerous, a lot of them, based on our data standards, and most people are not comfortable biking in such infrastructure. And two, there's a lack of connectivity so the existing infrastructure rarely provides a continuous safe route to destinations. I think that adopting this updated plan will supplement the existing efforts, Division Zero, Complete Streets, by focusing the work they're already doing on projects that will have the most immediate and long term impact in promoting cycling in the city. So I yeah, I urge you all to to approve this, to recommend this to the Council, thank you.

CHAIR HOLLINGER: Thank you for that, that's all great information. Appreciate your time this morning, Miss Chavez, has anyone else signed up?

CHRISTINA CHAVEZ-GONZALES: Yes, Chair and Commissioners. Our next speaker is going to be Ron Bohannan.

CHAIR HOLLINGER: Morning Mr. Bohannon.

RONALD BOHANNAN: Morning Mr. Chair, Ron Bohannon, 5571 Midway Park Place.

CHAIR HOLLINGER: Will you raise your right hand, and you swear to tell the truth, under penalty of perjury?

RONALD BOHANNAN: I do.

CHAIR HOLLINGER: I see a bike in the background, so I imagine you're in support.

RONALD BOHANNAN: I am in support, and a lot of folks don't realize I bike about 3 to 5,000 miles per year and so I'm all over the the city and I actually bike all over the country when I we and I do travel. My goal is to bike as far as your legal counsel's father has biked which is a lifetime, and I and urge to support. But what's really important to this and what I want to focus my comments today on is this plan is really important to be able to apply for Federal funding as as mentioned, in Santa Fe we were able to use their plan in Santa Fe and use the Carbon Reduction Act, which is a State Act and we're building a 2 million dollar extension of the bicycle and pesticide trail near the rail runner station off of New Mexico 14. So, this is what's really important about this plan is to have this in place, so that Barbara, or for Debbie Bowman and everybody else in the staff, can actually go for those grants and apply it. There will never be enough money for bicycle facilities, we all know that but you have to do it incrementally, and if we can work with the development community, we can also try to leverage our dollars to go further with that. So, with that I'll be happy to answer any questions but I urge your support, thank you.

CHAIR HOLLINGER: Thanks for that, all wonderful information. Commissioners any questions? Okay, seeing none. Miss Chavez, who's next?

CHRISTINA CHAVEZ-GONZALES: Yes Chair, our next speaker is going to be Ralph Wrons.

RALPH WRONS: Thank you, I guess you'd like to hear my name and address to begin with?

CHAIR HOLLINGER: You got it.

RALPH WRONS: Alright, okay, my name is Ralph Wrons I live in Albuquerque at 8605 Bell Haven Avenue Northeast, anything more?

CHAIR HOLLINGER: Will you raise your right hand, and do you swear to tell the truth under penalty of perjury?



RALPH WRONS: I do.

CHAIR HOLLINGER: Okay, you're all sworn in, we got your name and address, you have 2 minutes.

RALPH WRONS: Okay, thank you. Well, just generally I wanna make sure that I express my support full support for the recommend, you know full recommendation of this this EPC on the bikeways plan. I have for my 34 years of living in Albuquerque I have ridden every year of that while I was working, I'm retired now. While I was working, I rode my bike, perhaps 70% of the day so I've utilized on street capacity and off street, you know the trails capacity. So, what I wanna say right now is that I appreciate Vice Chair Eysters question about, you know, perceived and real safety on the bike trails once, you know, e-bikes becoming even more prolific on the bike trails. And so I wanted to ask how long could it take to analyze, prioritize, and complete the widening that Miss Hermanson made mention of? I recall reading, I think, in the Bikeways plan that the recommendation was something like only about a 1 to 2 foot widening, I might be wrong on that please correct me, and such with such have you attempted a cost estimate for the envisioned widening? So, that's just one question, the other comments I wanted to make were I learned recently that green stormwater infrastructure was has now become a requirement in the Complete Streets Ordinance and I know we're relying on the Complete Streets Ordinance to really help expand what we see happening in this Bikeways Plan but I see that as another encumbrance on available funding, and has there been any consideration of just I don't know if the EPC is aware of this green stormwater infrastructure addition to the Complete Streets Ordinance. Another comment would be something I had submitted was, please, you know, in the interest of safety, we know that, you know, higher the speed that is on a roadway that's being used by a cyclist if they ever hit, they have a higher, you know, potential for serious injury or or fatality. So please lower the posted speed overtime with the Complete Streets Ordinance, please lower the posted speed limits to at or less than 25 miles per hour on collectors that are part of the Bikeways Plan, and then have I exceeded my time?

CHAIR HOLLINGER: You can go ahead.

RALPH WRONS: Okay, I have one last one last minor comment. Something I also noticed in the bikeways plan was that 51 to 56% of potential cyclists would prefer and I forget what LTS stands for, but it has to do with safety, 1, 2, or 3. Please consider adding a column on Appendix F of the tables on priorities that would identify all of those improvements that are going to try to achieve LTS. 1, 2, or 3. Thank you, those are my comments, and again I urge my or I have full support for this Bikeways plan.

CHAIR HOLLINGER: Thank you, Mr. Wrons we appreciate that, again great comments. Miss Chavez is there anyone else signed up?

CHRISTINA CHAVEZ-GONZALES: Yes Chair, our next speaker is going to be Larisa Chavez.

LARISA CHAVEZ: Hello!

CHAIR HOLLINGER: Good morning!

LARISA CHAVEZ: Morning.

CHAIR HOLLINGER: Will you state your name and address for the record please?

LARISA CHAVEZ: Larisa Chavez I'm located at 12005 Stillwell Place, Northeast Albuquerque, New Mexico, 87112.

CHAIR HOLLINGER: Thank you, and do you swear to tell the truth, under penalty of perjury?

LARISA CHAVEZ: I do.

CHAIR HOLLINGER: Thank you, you have 2 minutes.

LARISA CHAVEZ: Thank you so much to everyone for their hard work and diligence on this plan, and I apologize in advance for my lack of preparedness, and where this question comes from. As a frequent cyclist myself, I find that I am deterred by the safety issues of one a lack of shade, I'm rather pale and I will burn and then the other one being in the news recently there was an attack on a cyclist and I was wondering if either if there is somewhere within this plan that either or both of those topics have been addressed?

CHAIR HOLLINGER: Okay, thank you for your questions again, we'll kind of wrap those back up as we get to the applicant closing so yeah, just stay tuned, and we'll we'll get back to that. Miss Chavis is everyone else signed up?

CHRISTINA CHAVEZ-GONZALES: Chair Hollinger, no other members of the public have signed up to speak at this time.

CHAIR HOLLINGER: Very well, let's close the floor and we'll move to Staff closing unless anyone else signed up?

CHRISTINA CHAVEZ-GONZALES: We do have one more, aboard 111.

CHAIR HOLLINGER: Oh, I know you, good morning.

RENEE HORVATH: Good morning, this is Rene Horvath, and I'm here today just to listen to the presentation, which I thought was very good, and also your questions that you asked.

CHAIR HOLLINGER: Wait so let's let's get your name and address all the good stuff.

RENEE HORVATH: Okay my name is Renee Horvath. I live at 5515 Palomino Drive in Taylor Ranch.

CHAIR HOLLINGER: And do you swear to tell the truth under penalty of perjury?

RENEE HORVATH: Yes.

CHAIR HOLLINGER: Very well, you have 2 minutes.

RENEE HORVATH: Okay, I just so several people have called me and say, hey, they're doing the bike trail. And they did have some concerns about the E-bikes safety issue. So I was glad that that was discussed that Commissioner Eyster brought that up along with some other people. Since I live here on the West Side I've ridden that bike trail along the river, it's one of the best trails I've walked it, I've ridden it with my family and kids growing up, and one of the things that people asked was the safety of the e-bikes, because they know it's getting popular. But some people have indicated that there's been some close calls with their regular bike, with an e-bike on that trail but I think mainly they were more concerned, are these e-bikes going to go into the Bosque in the natural paths pathways, because they did make a path through the Bosque from Montano to Nature Center with a soft layer pressure fine, or whatever it is, on that trail for bicyclists. So, they had some concerns about it because of the safety issues and a lot of family, school children, I've taken classes out there, my own children, so are they this plan doesn't look like it's addressing any of the natural pathways but are the is that a discussion that's being looked at? That people need to comment on as we move forward with natural trails and e-bikes and one other thing somebody suggested that, I guess in Europe some of the European countries, they separated the uses bikes on this off-street, bike trail and pedestrians on this off-street trail. They've separated the uses. So I thought I'd just bring it up, because that was a comment that was brought to me that as we look at ideas that maybe we can separate them if possible but that's what I I wanted to just bring awareness of some concerns that was brought to my attention.

CHAIR HOLLINGER: We appreciate you, nice to see you this morning.

aboard111@gmail.com: Yeah, thank, you.

CHAIR HOLLINGER: Very well, Miss Chavez, I don't see anyone else.

CHRISTINA CHAVEZ-GONZALES: That is correct Chair.

CHAIR HOLLINGER: Let's go to Staff Closing.

CATHERINE HEYNE: Thank you Chair, Staff closes with the 2024 Bikeway and Trail Facilities Plan is a rank 2 plan and provides policy guidance for the city's bikeway and trail infrastructure investments, and is a mechanism for implementing the comprehensive plan and could leverage additional opportunities for project funding. It's consistent with the requirements of the IDO 6-7(B) for citywide rank, 2 plan amendment and adoption. Staff believes this plan will serve the city well in terms of advancing a more comfortable low stress bikeway network and improve crossings to help current and future cyclists navigate the city. Staff recommends that the EPC forward a recommendation of approval to City Council, subject to the recommended conditions of approval that will be determined at today's EPC hearing, thank you.

CHAIR HOLLINGER: Thank you Miss Heyne, Commissioners, any questions for staff? Seeing none, let's move to the applicant closing.

VALERIE HERMANSON: Mr. Chair, members of EPC, Commissioners, in closing the 2024 Bikeway and Trail Facilities Plan sets the city to successfully sets us up to successfully implement a network of low stress bikeways to serve people of all ages, abilities and backgrounds for recreation and essential transportation needs. The way we design our streets, has an impact on the livelihood of everyone, and making our streets more bikeable and walkable, is about taking a look at a capital asset we have, streets, and using streets in the most effective way possible. This plan is a kind of recipe to create a safe, comfortable, and useful bicycling network in Albuquerque, and I just want to extend my gratitude to all of the EPC Commissioners as well as our communities and internal staff and external stakeholders that helped us put this plan together. I also want to extend my gratitude toward Mr. Messenger and Miss Heyne with their guidance, this is my 1st time coming through EPC and they were really helpful. We look forward to next steps in the process and continuing to work with everybody on implementing this great plan, thank you.

CHAIR HOLLINGER: Thank you for that. Would you like to address some of those questions from the public?

VALERIE HERMANSON: Mr. Chair members of the Commission, absolutely, I did my best to take notes on some of those questions. There was one about whether e-bikes are allowed on buses, and I'd like to defer to transit on that one I had not heard that before. I know e-bikes tend to be a little bit heavier, and so it might be I'm not sure how the racks are designed on the front of our existing buses, and if it can support that weight with regard to the art buses, it's easier to just roll on a bike and so I could see that being easier but with that being said, I would defer to transit about whether e-bikes are allowed on e-bus, on buses. There was a question about a lack of overpasses over I-25 south of the Big I, so back in 2019, actually, Mr. Aaron Sussman did an analysis. The city brought on Mr. Sussman to do an analysis of a bike gap within I-25 corridor from the Big I North and so that study made a number of recommendations for bike, bicycle, and pedestrian overpasses, and because those had been studied and vetted and you know, we had done our stakeholder coordination, those were included in the plan. Since we hadn't studied south of the Big I for I-25 there were no recommendations, with the exception of NMDOT is currently doing an S curve study in

which city staff have been working with them and making sure that they're aware not only of this plan update but a lot of the concerns, through the the comments raised through this this forum about the lack of connectivity over major roadways, but also the interstates. NMDOT is also proposing a Gibson interchange project and again, staff have been working and coordinating within NMMDOT to align different recommendations to to make sure that what NMDOT is proposing will work for people walking and biking, and then what we're recommending in this plan on either end of the crossing is consistent and complementary to create a connected and safe connection. Let's see, there was some questions about bicycle connectivity, and I'd like to delegate that question to Mr. Sussman.

AARON SUSSMAN: Thank you Miss Hermanson, and thank you Commissioners, and thank you to the members of the public for these questions and the support as well and I think I also just want to thank the hundreds, if not thousands, of people who participated over the course of the last couple years in various forms in the plan development process, and we tried to be as thoughtful and as responsive as possible to those specific questions about individual network improvements. Let me speak as best as I can, there are a couple of questions about specific locations, but I think it's probably most appropriate to speak to our general methodology, and how we looked at types of enhancements and improvements across the network. So, for example, we took a real concerted effort, looking at where there are locations where bike lanes end. We made a decision as part of this plan development process, though, to not recommend new bike ways, if we could not create new bike ways that were feasible and implementable unless they resulted in low stress conditions and so, you know, we're not looking at ways to just squeeze in imperfect high stress too narrow bike lanes in places where they could not where we could not accommodate a higher quality facility. So that was a general approach that we took, we wanted to make sure to create those kinds of connections, but we needed to make sure we were creating connections that were quality, low stress, and would appeal to a wide range of bicyclists if we could not identify that on the corridors in question we looked at parallel facilities that are nearby, where we could create those those lower stress conditions. We evaluated opportunities for road and corridors across the city, we had criteria that we followed in terms of when we would recommend those kinds of changes to the street cross section and again, we follow sort of a standard set of approaches that get this very large city geographically, lots and lots of miles of road. So we need to define some sort of standard processes. But that question about connectivity was enormous and that question about, you know, ensuring that we create safe and comfortable facilities was again at the foundation of our recommendations. I'll just repeat, we did not want to make recommendations that we did not believe the result in a lower stress, high quality, facility, and so, where we could not recommend that we looked for parallel facilities to the extent possible. There are barriers, one, I think, that the comments referred to the bike lane on Copper ending at Louisiana, I bring that up in specifically, because it's an example of a kind of barrier that I'm that we know about that with things like EXPO New Mexico, among our recommendations or coordination with the State longer term to look at improving connections through that that area that is a real barrier. So, the last thing that I want to say about the the connectivity question is, there's a a role for ongoing regional planning as well that takes the work that was done as part of the

Bikeway and Trails Facilities Plan and carries it forward so the Mid-Region Council Governments maintains a long range bikeway system that looks at regional projects projects to require coordination among various jurisdictions, whether that's NMDOT, State of New Mexico in the case of EXPO New Mexico. So, there is a forum and a mechanism to continue to look at crossings of interstates and major barriers that require coordination among various jurisdictions I think with that I'll turn it back to Miss Hermanson to address any further questions.

VALERIE HERMANSON: Thank you Mr. Sussman, okay, let me have my list here.

There was a question about how much our bicycling infrastructure is used. So, through the Mid Region Council of Governments, they actually do traffic counts, counting vehicles, and they have quite a robust program for getting average daily traffic volumes, and a lot of that data informs whether we can road diet, which means narrowing or removing travel lanes and reappropriating them for other uses, such as people bicycling they're also just recently did almost a 2 year study putting together an active transportation count program and what that program would do is count people walking and biking. It can be really difficult to count people walking and biking. We have a, our city is over 189 square miles we have over 4,000 miles of streets and so the plan actually recommends the city collaborating with Mr. Cog on that count program and supporting it, and so that can help to fill in that gap, and how people are using and where people are bicycling and walking so, I hope that addressed that that comment. There was a comment about widening the paved multi-use trails, and so currently, the standard is 10 feet wide, and the plan is recommending an update to the city's Development Process Manual, also known as the DPM to 11 feet, and where there's space available 12 feet, with regard to doing the analysis to the cost, we didn't, because every year costs get more expensive and so we do have some cost estimates in the appendix, but it would be a project by project basis with how much that would cost, and if there's available right of way, it would need to be further studied, to be able to figure out the best approach in widening facilities, or when we build new facilities, making sure that they're wider but the first step would be updating the DPM and then again, the plan is prioritized. All the projects are prioritized, so you know, as the administration or council goes through that project list to implement projects, you know, we can address the concerns within the plan and issued here in this form today, you know, as we design and scope different projects. Lets see, there was also a question about lowering speed limits, and I'm happy to report that through a lot of our analyses we did find opportunities to decrease driver people driving automobiles speeds where appropriate and so that can be kind of a concurrent thing, you know, as we're developing or scoping a project that's gonna add in a bike lane, we can work with our traffic engineering team to lower speed limits, which also improves safety, but it also increases comfort for people bicycling, so that that is identified within the plan. There was a comment about a concern about a lack of shade and yeah, I feel you, I don't know if you can tell I have red hair and I'm out bicycling, too, and that is a challenge and you know, I think, where that would come into play is when we do a larger transportation project and when I say a larger transportation project I'm talking about, we're gonna be moving curb and gutter, which is very expensive and we might be acquiring right of way, whether to accommodate an on street facility or an adjacent side path and those are the kinds of



opportunities where, when we're scoping that work, we can look for opportunities to improve the green infrastructure elements, but also adding shade along that facility. Otherwise within the built environment when we're just doing a restriping project and not acquiring any right of way, it would be really difficult to shoehorn that kind of thing in when we would want to make sure to plan for it, so that any shrubbery or plants or trees that we plant has a chance at living and growing and being successful. There were some concerns about e-bikes and open space and on natural surface trails and I just wanna note that through this plan update we did not address unpaved trails we only looked at on street facilities as well as paved multi-use trails. However, Whitney Phelan did let me know you know, that Parks is consistently looking for opportunities where possible, you know, to address a lot of those concerns, and it can be really difficult to do the shared facilities on other peoples or other organizations right of way, such as AMAFCA right-of-way or the MRGCD but they're gonna continue to look for opportunities and funding to to further separate where people are walking, where people are biking and different speed differentials and then, just to other note, you know, about different speeds on paved multi-use trails. Whitney Phelan, and Parks and Recreation currently has an ordinance, an e-bike ordinance that's at council and I know that that was a question that came up as well before it's 01424 is the labeling for that order, the E-bike ordinance and more information can be found on the city's website. It was recently at the Land Use Planning and Zoning Commission on June 12th and I believe they expect it to go to City Council on August 5<sup>th</sup>, so please reference City council and provide comments to your City Councilor on that, on that issue. And let's see, I think I got everything if I missed anything, please feel free to let me know.

CHAIR HOLLINGER: That seem very thorough, thank you for time taking the time to address all those questions. That's very nice, I can't imagine any other commissioners have questions at this point but do we have any more questions? Maybe not, I have one I'll keep it super short, if someone wanted to give further input into the project is there an avenue for that?

VALERIE HERMANSON: Mister Chair, members of the Commission absolutely, we do have a dedicated website it's [abqbikeplan.com](http://abqbikeplan.com). There's a dedicated email address to reach out to us, people can reach out to me directly, to provide comments and to stay up to date on where we are with moving this plan forward.

CHAIR HOLLINGER: Wonderful, thank you. So, if there are no additional questions from our commissioners, we can close the floor and move to Commissioner deliberation, commissioners, thoughts, comments, questions?

COMMISSIONER HALSTEAD: Halstead.

CHAIR HOLLINGER: Yes, Commissioner Halsted.

COMMISSIONER HALSTEAD: Thank you Chair, before we proceed I wanted to make a statement because we had someone from Gen M make a comment, and there was a lot of letters of support that we

received from that organization. I wanted to state that I am a founding board member of Gen M and this is also something I'm gonna want to reiterate on I think agenda, item 4 and 5, but as a member of that organization I abstained through many conversations having to do with any items that are going to go before the EPC and I don't take part in any votes of support or opposition. So, I just wanted to make that statement here on this project as well, because there was a lot of support from that organization.

CHAIR HOLLINGER: I certainly appreciate you disclosing that do you have any qualms voting?

COMMISSIONER HALSTEAD: I do not.

CHAIR HOLLINGER: Very well, alright Mr. Myers any complication with that?

MATT MYERS: Oh, thanks, Chair Hollinger and Commissioner Halsted. I would just like to add in this for this specific item, this is a legislative matter. So, since it's not a quasi-judicial matter, we don't, we're not concerned with ex-parte communication. Okay? But it sounds like you didn't have any ex-parte communication, and you have no conflict in this case but it's nice that you disclosed it and in the next case that, maybe you referenced. We'll discuss this in more detail but on this matter it's it's certainly fine, as it's a legislative matter we're discussing here today.

CHAIR HOLLINGER: As always, thank you, Mr. Myers, and thank you for disclosing that Commissioner Halsted. I'll say that I've it's been a while since I've seen such overwhelming support for a project. I appreciate all the members of the public joining in and voicing their their support as well as their questions. Hopefully we've got those all answered we have avenues for additional comments we express the G.O. bond is rather important for continued funding, and that if there are issues along this 311 is the means to report a problem. personally, stand behind this but I would like to hear if there are any additional questions from my commissioners.

COMMISSIONER HALSTEAD: Halstead.

CHAIR HOLLINGER: Yes, sir.

COMMISSIONER HALSTEAD: No questions. I just wanted to also suppress express my support and thank Mr. Sussman and Mrs. Hermanson for a really strong presentation and I know all the work that's gone into this and it's badly needed, I'm an avid user of these trails as well, and it's a big opportunity for our city to really advance in in a multimodal transit. So, I'm full support, and I encourage you support for the rest of the Commission.

CHAIR HOLLINGER: Thank you, Commissioner Halstead. Any commissioner willing to make a motion? Or I saw Commissioner Carver.

COMMISSIONER CARVER: Yeah, Mr. Chair, I just wanna kinda agree with the rest of the sentiments of everyone else. I think this is a great update I'd like to revisit that question of adding a condition of approval or recommendation of a condition of recommendation, of approval for the adding a funding roadmap or plan was Staff able to help us write a draft of that condition.

CHAIR HOLLINGER: So, there was a little bit of pushback from Commissioner MacEachen. I suggested, perhaps we make a finding. Commissioners any thoughts about that can finding versus a condition?

COMMISSIONER MACEACHEN: Chair.

CHAIR HOLLINGER: MacEachen.

COMMISSIONER MACEACHEN: So again and I think it's real important that we figure out what IDO does and do what we're supposed to do according to the IDO handbook, and I'd like to stay in our lane. I mean, I don't want to micromanage every component of the City of Albuquerque. This is a really well done presentation, it's well thought out they're doing very good work for the betterment of our community and to micromanage it at this point I'd like to stay out of that and stay in our lane.

CHAIR HOLLINGER: Understood, Commissioner Carver additional thoughts?

COMMISSIONER CARVER: Yeah so I mean, I think that a plan like this can help facilitate internal advocacy and you know, for increased capacity within the city government. I think it's always better to have a plan than to not and yeah, I mean, I'd like to throw it down to a vote and see if it goes down and goes down, that's fine, if there's disagreement, that's okay. That's why we're here.

CHAIR HOLLINGER: Would you be open to a finding as opposed to a condition?

COMMISSIONER CARVER: I'm not sure what a finding would accomplish. I think that finding is more of a statement of fact than it is trying to get like something else created.

CHAIR HOLLINGER: We're pushing a recommendation to City Council so

Matt Myers: Chair Hollinger.

CHAIR HOLLINGER: Noted, Mr. Myers.

MATT MYERS: Sorry chair for interrupting you there. You know I'm not, maybe this could help us analyze this, I'm not fully clear what Commissioner Carver wants with this condition of approval, and maybe it will

help us analyze, help the Commissioners analyze if he, if he makes it clear, because a condition of approval right says what a condition of approval is saying is and in this case I know we're just making a recommendation but it's saying, this will not be recommended unless this condition is satisfied right? So, we need to make sure that if you're gonna put a condition on there it can be satisfied and I think that's kind of going to what Mr. Commissioner MacEachen is saying is, well, we better make sure that this is something that can be satisfied. Otherwise maybe we shouldn't put it on there but anyway, I maybe that's for you, Commissioner Carver, to make it clear what it is you're asking.

CHAIR HOLLINGER: Thank you, Mr. Myers. Mr. Carver, did you have Commissioner Carver, did you have any language crafted, or are you seeking advice from Staff?

COMMISSIONER CARVER: Mr. Chair, yeah, I was seeking advice from staff for the exact verbiage but I there were trying to, I thought there was a finding area condition in here that was similar where I and I mean, it's yeah. I what I'm looking for is I guess I'm not sure how to say it any differently, like I'm looking for a roadmap for to help increase transparency and a plan around how much, like the prioritization of the specific parts of the project of how the funding is like if we know where the funding is, and how much it is. I'm I think that if we had a plan of how that was actually going to be implemented then that helps the staff move forward with that.

MEGAN JONES: Chair Hollinger, I I'm also wanting a little bit more explanation or context. I'm on the same page as Council Myers, that I understand, Commissioner Carver, what you are saying, you want to see some sort of implementation plan for funding to ensure that these specific projects within the facility plan can actually occur. I just don't and I'm not sure that the that the EPC has that purview to create a condition to say that funding has to be a part of the recommendation here to Council and I'm in agreement with Chair Hollinger that maybe we add a finding, if all of the Commissioners are on the same page, that the plan in some way addresses how the implementation of these plans will of these projects will happen, moving forward, but I just don't know if we can get into the weeds of funding mechanisms at the EPC level, and maybe Counsel Myers or Nicole Sanchez has some better language than I have for that, but without that implementation plan for funding being included in the plan, I don't know that that's something that we can review, or that you all can review as a commission.

CHAIR HOLLINGER: Miss Jones, let me table your comments for just a moment. I see Commissioner Aragon, and you had your hand up as well.

COMMISSIONER ARAGON: Yes, sir, thank you. I just wanted. I do appreciate the Commissioner Carver's concerns on this particular issue but at this point in time, the staff recommendation is very complete. I would not support in adding any findings or any new conditions to what's already been presented and as far as trying to mandate funding for something, I don't believe that's our role, but I'll leave that to

our Council to advise us on that. I think we're I think we're ready I don't know if we're ready to move forward, but I'm ready to move forward, as is.

CHAIR HOLLINGER: Understood, thank you. Vice chair?

VICE CHAIR EYSTER: Thank you Chair, I appreciate this dialogue. I appreciate you Commissioners who are engaging in this way, I'm a little unclear I wonder if maybe Miss Hermanson could express, you know how much work it would take her group to do this, and whether or not that would benefit them or us.

CHAIR HOLLINGER: Miss Hermanson, would you like to address that?

VALERIE HERMANSON: Yes Mr. Chair, great question Vice Chair, to be frank, I don't know that it would help further the plan. The plan is prioritized and Staff, in addition to the Mayor's office as well as City Council staff, we're always monitoring funding opportunities, local, state, national, and when we have a good project that we wanna put forward to apply for funding, we will do so. When we do have staff capacity and the required matching dollars to be able to apply for a grant. I also just wanna note that we staff can't identify a project and just apply for a grant. We are required to go to City Council to get permission to apply for Grant should we receive any funding, we have financial responsibility associated with receiving Federal funding. So that that is an extra step in the process that I just wanted to make sure that everyone was aware of.

VICE CHAIR EYSTER: So Chair and Commission, I'm not hearing the benefit of an implementation plan. I know there's some work to do it, but I'm not hearing that there's any benefit, thank you.

CHAIR HOLLINGER: Understood, thank you. Commissioner Likar?

COMMISSIONER LIKAR: I think I'm in with Commissioner MacEachen, Commissioner Aragon, this is an overall plan for the entire city. Very difficult to do something of that nature, and I think it's a as Miss Hermanson said it's a funding as they go, if a road project comes up and there's a bike path that's supposed to be implemented, with that they're going to include that, I just don't think we've burden this I think we, as Commissioner MacEachen said, I think we stay in our lane and I think I want to move forward as is.

CHAIR HOLLINGER: Thank you, Commissioner I saw somebody else had their hand up, maybe not. So based on a straw poll vote I think that the condition has been outvoted. It does sound like we have quite a bit of overwhelming support, so being said, is anyone prepared to make a motion?

COMMISSIONER HALSTEAD: Halstead.

CHAIR HOLLINGER: Commissioner Halstead.

COMMISSIONER HALSTEAD: Yeah, in the matter of Agenda item number 2, project PR-2024-010493, case 2024-00032 Bikeway and Trail Facilities Plan, I move for a recommendation of approval subject to findings set 1 through 17 and conditions, 1 through 5.

CHAIR HOLLINGER: Perfect.

COMMISSIONER MACEACHEN: Chair is the conditions 1 through 5 plus 6?

COMMISSIONER HALSTEAD: Plus 6, thank you.

CHAIR HOLLINGER: Thank you, Commissioner MacEachen. So motion was made, a slight adjustment to the conditions, is there a second?

VICE CHAIR EYSTER: Eyster.

CHAIR HOLLINGER: Eyster moves to second. Additional comments Commissioners? Seeing none we'll move to a roll call vote Commissioner Aragon?

COMMISSIONER ARAGON: I.

CHAIR HOLLINGER: Commissioner Carver.

COMMISSIONER CARVER: Carver, I.

CHAIR HOLLINGER: Commissioner Cruz.

JOSEPH M CRUZ: Cruz, I.

CHAIR HOLLINGER: Commissioner Likar.

COMMISSIONER LIKAR: Likar, I.

CHAIR HOLLINGER: Vice Chair.

VICE CHAIR EYSTER: Eyster, I.

CHAIR HOLLINGER: Commissioner Halstead.

COMMISSIONER HALSTEAD: Halstead, I.



CHAIR HOLLINGER: Commissioner MacEachen.

COMMISSIONER MACEACHEN: Commissioner MacEachen, I.

CHAIR HOLLINGER: Chair is an I, passes 1, 2, 3, 4, 5 passes 8- 0. Very well, thank you everyone Miss Hermanson, Mr. Sussman, we certainly appreciate your time this wonderful presentation, I appreciate all the dialogue and the hard work, and I certainly look forward to this project, and seeing how it will develop and come to be so thank you both.



## **ENVIRONMENTAL PLANNING COMMISSION AMENDED AGENDA**

**THURSDAY, JULY 18, 2024  
8:40 a.m.**

**Location: ZOOM**

**Members of the public may attend via the web at this address: <https://cabq.zoom.us/j/89846432824> or by calling the following number: (346) 248-7799 or (669) 444-9171 and entering Meeting ID: 898 4643 2824**

### **MEMBERS**

**Jonathan R. Hollinger, Chair  
Gary L. Eyster P.E. (Ret.), Vice Chair**

**Giovanni Coppola  
Joseph Cruz  
Renn Halstead**

**Tim MacEachen  
Jarrod Likar  
Daniel Aragon  
Adrian Carver**

\*\*\*\*\*

### **NOTE: A LUNCH BREAK AND/OR DINNER BREAK WILL BE ANNOUNCED AS NECESSARY**

Agenda items will be heard in the order specified unless EPC approves changes at the beginning of the hearing; requests for deferral or withdrawal are reviewed at the beginning of the hearing.

TESTIMONY: Please be prepared to provide brief and concise testimony to the Commission if you intend to give comments. In the interest of time, presentation times are limited as follows, unless otherwise granted by the Commission Chair: Staff – 5 minutes; Applicant – 10 minutes; Public speakers – 2 minutes each. City-recognized neighborhood association or coalition representatives will have 5 minutes.

CROSS-EXAMINATION: For quasi-judicial decisions, applicants and members of the public with legal standing have a right to cross-examine other persons speaking pursuant to Article 3, Section 2D, of the EPC Rules of Practice & Procedure.

48 HOUR MATERIAL: The EPC will only consider very limited, clarifying written material if it has been submitted to the EPC at least 48 hours prior to the public hearing and posted for public review. Except in extraordinary circumstances, the EPC will not consider written materials submitted at the hearing. In the event the EPC believes that newly submitted material may influence its final decision, the application may be deferred or continued to a subsequent hearing.

PUBLIC COMMENT: All public comments should be submitted via an online survey, which can be accessed at: <https://cabq.gov/epc-public-comment> All comments received prior to the 48-hour deadline will be included with the record. All other comments should be given verbally during the hearing.

**NOTE: ANY AGENDA ITEMS NOT HEARD BY 8:30 P.M. MAY BE DEFERRED TO ANOTHER HEARING DATE AS DETERMINED BY THE PLANNING COMMISSION.**

**Call to Order:**

- A. Pledge of Allegiance
- B. Roll Call of Planning Commissioners
- C. Zoom Overview
- D. Announcement of Changes and/or Additions to the Agenda
- E. Approval of Amended Agenda

**1. Project # PR-2022-007872**

SI-2024-00674 –Site Plan – EPC, Major Amendment

*Deferred from June 2024*

Barghausen Consulting Engineers Inc., requests a Site Plan EPC, Major Amendment for all or a portion of Tract C-1-A Plat of Tracts C-1-A thru C-1-E Academy Acres Unit 17; Tract C1C1A and Tract C1C1B Plat of Tracts C1C1A & C1C1B Academy Acres Unit 17; Tracts C-1-C-2 Academy Acres Unit 17 Plat of Tracts C-1-C-1 & C-1-C-2 Academy Acres. Located at 7330 San Antonio Dr. NE, between San Antonio Dr. NE and San Antonio Place NE, approximately 3.5 acres (E-19-Z)  
Staff Planners: Rachel Gross, Vicente Quevedo

**2. Project # PR-2024-010493**

RZ-2024-00032 –Amendment of Facility Plan

Valerie Hermanson, Public Works Strategic Program Manager, representative of the City of Albuquerque Department of Municipal Development, requests an Amendment of the City of Albuquerque Bikeway and Trail Facilities Plan (BTFP). City-wide.  
Staff Planners: Robert Messenger and Catherine Heyne

**3. Project # PR-2024-010490**

SI-2024-00815 – Site Plan EPC, Major Amendment

Consensus Planning, agent for Advance Sign Group, requests a Site Plan EPC major amendment, for all or a portion of Tracts 1A, 2A, 4A, 5A, 6A and 7A Revised Plat of Pavilions at San Mateo, and Tract 3A-1 Plat of Tract 3A-1 Pavilions at San Mateo, located at 4600 Cutler Ave. NE, between San Mateo and Washington, containing approximately 20-acres. (H-17)  
Staff Planners: William Steele and Jude Miller

**4. Project # PR 2024-009765**  
RZ-2024-00029 – Zoning Map  
Amendment (Zone Change)

*Remand from February 2024*

Tierra West, LLC, Inc., agent for Cross Development, requests a zoning map amendment from MX-M to MX-H, for all or a portion of Tract A, Plat of Gateway Subdivision, located at 1100 Woodward Pl NE, between Mountain Rd, and Lomas Blvd, approximately 3.0 acres. (J-15-Z)  
Staff Planners: Megan Jones and Vicente Quevedo

**5. Project # PR-2024-009765**  
SI-2023-00468 – Site Plan – EPC, Major  
Amendment

*Deferred from May 2024*

Tierra West LLC, agent for Cross Development, requests a Site Plan EPC, Major Amendment for an approximately 3 acre portion of Tract A, Plat of Gateway Subdivision; Tract B-1, Plat of Tract B-1, Gateway Subdivision, A replat of Tracts B & C, Gateway Subdivision; Tract, D-1-B-1, Plat of Tract D-1-B-1 and D-1-B-2, Gateway Subdivision (being a replat of Tract D-1-B, Gateway Subdivision, Lots 16 and 17, Trotter Addition NO. 2 and A; and Tract D-1-A-1, Plat for Lots 1 & 2, Tract D-1-A-1, Gateway Subdivision (being a replat of Tract D-1-A, Gateway Subdivision & an unplatted parcel), between Mountain Rd, Lomas Blvd, Edith Blvd. and I-25 frontage, approximately 23 acres (J- 15-Z)  
Staff Planner: Megan Jones

**OTHER MATTERS:**

- A. Approval of Action Summary Minutes
- B. EPC Rules of Conduct
- C. Announcements

**6. ADJOURNMENT**