



County of Los Alamos

1000 Central Avenue
Los Alamos, NM 87544

Agenda - Final Transportation Board

Brian O'Neil, Vice Chair; Sriram Swaninarayan, Nancy Jo Barnes, Eileen Lime, Don Machen, and James L. Nesmith, Members

Thursday, June 1, 2017

5:30 PM

1000 Central Avenue, Room 110

1. **CALL TO ORDER / ROLL CALL**

2. **APPROVAL OF AGENDA**

3. **PUBLIC COMMENT**

This section of the agenda is reserved for comments from the public on items that are not otherwise included in this agenda.

Please Limit Public Comment to 3 Minutes.

4. **LIAISONS' REPORTS**

5. **APPROVAL OF MINUTES**

9475-17 Meeting Minutes May 4, 2017

Presenters: Brian O'Neil

Attachments: Meeting Minutes May 4, 2017

6. **OLD BUSINESS -Possible Action**

7. **NEW BUSINESS - Possible Action**

9517-17 Approval of the 2017 Bicycle Transportation Plan and Recommendation for Council Adoption

Presenters: Eric Martinez, County Engineer

Attachments: A - Project Presentation-T-Board
B - DRAFT 2017 Bicycle Transportation Plan

8. **PROJECT UPDATES**

9476-17 Public Works Staff/Project Update - May 2017

Presenters: Philo Shelton

Attachments: A - Public Works Update for May 2017

9. CHAIRPERSON'S REPORT

10. FUTURE AGENDA ITEMS

Bicycle Transportation Plan Update

Complete Streets

Data Collection on County Traffic Lights

11. ADJOURNMENT

If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, please contact the County Human Resources Division at 505-662-8040 at least one week prior to the meeting or as soon as possible.

Public documents, including the agenda and minutes can be provided in various accessible formats. Please contact the personnel in the Public Works Division at 505-662-8150 if a summary or other type of accessible format is needed.



County of Los Alamos

Staff Report

June 01, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:

Index (Council Goals):

Presenters:

Legislative File: 9475-17

...Title

Approval of the May 4, 2017 Transportation Board Minutes

...Recommended Action

I move that the Transportation Board approve the May 4, 2017 minutes as presented.

...Attachments

A - May 4, 2017 DRAFT Transportation Board Minutes



County of Los Alamos

Minutes

Transportation Board

1000 Central Avenue
Los Alamos, NM 87544

*Brian O'Neil, Vice Chair; Nancy Jo Barnes, Eileen Lime, Don Machen, James L. Nesmith, and
Sriram Swaminarayan, Members*

Thursday, May 4, 2017

5:30 PM

1000 Central Avenue, Room 110

1. CALL TO ORDER / ROLL CALL

The May 4, 2017 Transportation Board Meeting was called to order at 5:41 p.m.

Present: Vice-chair O'Neil, Member Machen, Member Lime, Member Barnes and Member Swaminarayan, Member Nesmith was absent.

Member Lime arrived at 6:57 p.m.

Staff in attendance: Philo Shelton, Daniel Erickson, Traffic & Streets Manager; Annette Granillo, Transit Manager, Louise Romero, Office Manager and Lenora Maes, Senior Office Specialist.

Members of the public in attendance: Julie Bennett, 4256B Urban Street and Dave Schiferl, 459 Grand Canyon Drive.

2. APPROVAL OF AGENDA

A motion was made by Member Swaminarayan, seconded by Member Machen, that the May 4, 2017 agenda be approved as presented; the motion passed by a unanimous vote.

3. PUBLIC COMMENT

Julie Bennett, 4256B Urban Street spoke regarding the Urban Street traffic issue.

Dave Schiferl, 459 Grand Canyon Drive spoke regarding a circulator in White Rock and expanding service to Pajarito Acres.

4. LIAISONS' REPORTS

Member Machen spoke regarding bear issues and the Business Recycler of the Year nominations.

5. APPROVAL OF MINUTES

- A. [9365-17](#) Approval of the April 6, 2017 Transportation Board Minutes

Attachments: [A - DRAFT - April 6, 2017 Meeting Minutes](#)

A motion was made by Member Machen, seconded by Member Barnes, that the April 6, 2017 meeting minutes be approved as presented; the motion passed by a unanimous vote.

6. OLD BUSINESS -Possible Action

9366-17

Election of Chair and Vice-chair

A motion was made by Member Machen, seconded by Member Barnes. I move that Bryan O'Neil be appointed Transportation Board Chair. The motion passed with the following vote:

Yes: Member Machen, Member Lime, Member Barnes and Member Swaninarayan.

Vice-chair O'Neil abstained.

Member Nesmith, was absent.

A motion was made by Member Machen, seconded by Chair O'Neil. I move that Member Swaninarayan be appointed Transportation Board Vice-Chair.

The motion passed with the following vote:

Yes: Member Machen, Member Lime, Member Barnes and Chair O'Neil. Member Swaninarayan abstained.

Member Nesmith, was absent.

9429-17

Urban Street Traffic Calming Update

What has been done:

- Random Patrol
- Directive Control
- Traffic Related Enforcement

Next steps:

- Traffic Control
- Evaluate comments from the public/residents
- Chief Sgambellone will meet with Julie Bennett
- Revisit topic June 1, 2017 for further discussion

Other items:

- Proposed Striping
- Environmental Design Feature

9294-17

Attachments: [A - DRAFT Paratransit Policies and Procedures](#)

Presentation included the following topics:

- ACT Assist
- Paratransit/Dial-A-Ride History for Los Alamos County
- Changes to the Program
- Planning and Approval Process
- Implementation of the Changes
- It's Been Over a Year, What Should We Improve

A copy of the DRAFT Plan was provided in the agenda packet.

7. NEW BUSINESS - Possible Action

No new business items

8. PROJECT UPDATES

Public Works Project Updates were briefly discussed.

9367-17

Public Works Staff/Project Update - April 2017

Attachments: [A - Public Works Update for April 2017](#)

9. CHAIRPERSON'S REPORT

Chair O'Neil reminded board members to attend Code of Conduct Training on Wednesday, May 17 or Friday, June 9, 2017.

10. FUTURE AGENDA ITEMS

- Bicycle Transportation Plan Update
- Complete Streets
- Data Collection on County Traffic Lights

11. ADJOURNMENT

A motion was made by Member Machen, seconded by Member Barnes that the May 4, 2017 meeting be adjourned at 6:20 p.m.

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DRAFT



County of Los Alamos

Staff Report

June 01, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:

Index (Council Goals):

Presenters: Eric Martinez, County Engineer

Legislative File: 9517-17

Title

Approval of the 2017 Bicycle Transportation Plan and Recommendation for Council Adoption

..Recommended Motion

I move that the Transportation Board approve the 2017 Bicycle Transportation Plan as presented and forward to Council with a recommendation for Council adoption.

Or

I move that the Transportation Board approve the 2017 Bicycle Transportation Plan as amended and forward to Council with a recommendation for Council adoption

.Body

See presentation, Attachment A, for plan highlights and summary.

The following is a chronological background and summary of this item:

On April 22, 2016, Ms. Brenda Fleming filed a petition requesting the development of an urban bike path through the center of town connecting to the existing Canyon Rim Trail suitable for all users.

On May 3, 2016, Council approved a motion acknowledging the petition, thanking the petitioners for the recommendation, and requesting that staff investigate/research the matter in collaboration with the Transportation Board and petitioner, and return to Council with information, options, and/or recommendations for action within ninety (90) days.

On June 2, 2016, the petitioner presented her request to the Transportation Board where a subcommittee was formed to formulate recommendations.

On June 16, 2016, a conceptual map of urban bike path and pedestrian routes developed by Engineering Staff was presented to the subcommittee. Staff incorporated recommendations made by the subcommittee which included a high priority corridor that links the Canyon Rim Trail to downtown and Canyon Road points of interest. The high priority corridor also considers further development of the Canyon Rim Trail from its current terminus at Knecht St. west towards 20th Street in accordance with the 2011 Canyon Rim Trail Master Plan and funded with \$1 Million in CIP funds for easement acquisition (approved by Council on March 1, 2016); extension of 20th Street south of Trinity Dr.; and ongoing development efforts in furtherance of the Manhattan Project National Historical Park.

On July 7, 2016, the map was presented to the Transportation Board and the following motion was passed by a unanimous vote: I move that the Transportation Board approve and advise Council to do further study, costing, and engineering designs into the bicycle, pedestrian and route concepts that were created by the bicycle subcommittee and that the Transportation Board will continue this agenda item as the engineering and routes are developed. Updates to the map were made to address comments by the Board.

On July 26, 2016, Council unanimously approved the following motion: I move that Council approve the Bicycle and Pedestrian Route Map formulated by the Transportation Board and Bicycle Subcommittee for inclusion in the forthcoming update of the Bicycle Transportation System Plan for use in programming future improvements, and further move that we have additional discussions in the January time frame on this subject.

In January 2017, the Transportation Board requested that a bicycle plan subcommittee be formed to work towards creating a Bicycle Transportation Plan. County staff from Public Works, Parks Recreation & Open Space, Community Development, the County Manager's Office, and interested citizens, began meeting in February 2017 to assemble a document aimed towards creating a comprehensive transportation network focusing on bicycle facilities.

Several public meetings to discuss and obtain input for the bicycling plan were held as follows:

Planning & Zoning Commission Meeting - March 29, 2017
Transportation Board Meeting - April 6, 2017
Parks & Recreation Board Meeting - April 13, 2017
White Rock Public Meeting - April 27, 2017
Transportation Board Meeting - June 1, 2017
County Council Work Session - June 13, 2017 (Pending)
County Council - June 27, 2017 (Pending)

Through the diligent work of the subcommittee, a draft plan (Attachment B) was developed for Transportation Board consideration and eventual Council adoption.

Attachments

A - Presentation

B - DRAFT 2017 Bicycle Transportation Plan

Bicycle Transportation Plan



Transportation Board Meeting


Incorporated County of Los Alamos
Public Works Department

Philo S. Shelton III, Department Director

Eric Martinez, County Engineer

Desirae Lujan, Engineering Project Manager

June 1, 2017



Transportation Board Bicycle Plan Subcommittee

Public Members

- Phil Gursky
- Khalil Spencer
- Jason Lott
- Craig Martin
- Brenda Fleming

County Staff

- Linda Matteson, Community Services Department
- Tamara Baer, Community Development Department
- Chris Wilson, Parks, Recreation, and Open Space
- Eric Peterson, Open Space Specialist

Plan Organization & Contents

- Executive Summary
- Introduction
- Bicycle Friendly Community
- Design Policies & Guidelines
- Bicycle Infrastructure Inventory & Completed Improvements
- ***Planned Improvements***
- Conclusion
- Exhibits
- References



Bicycle Transportation Plan

Council Adopted June xx, 2017

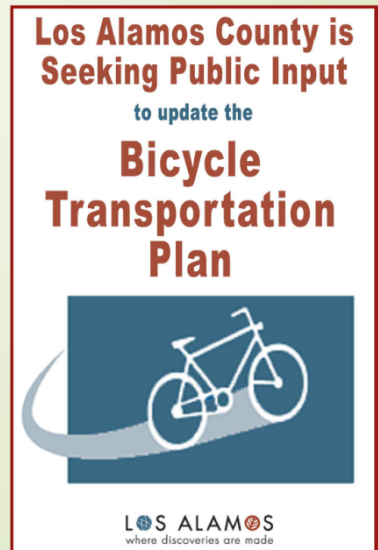


LOS ALAMOS
Public Works

Planned Improvements

Public Involvement & Input

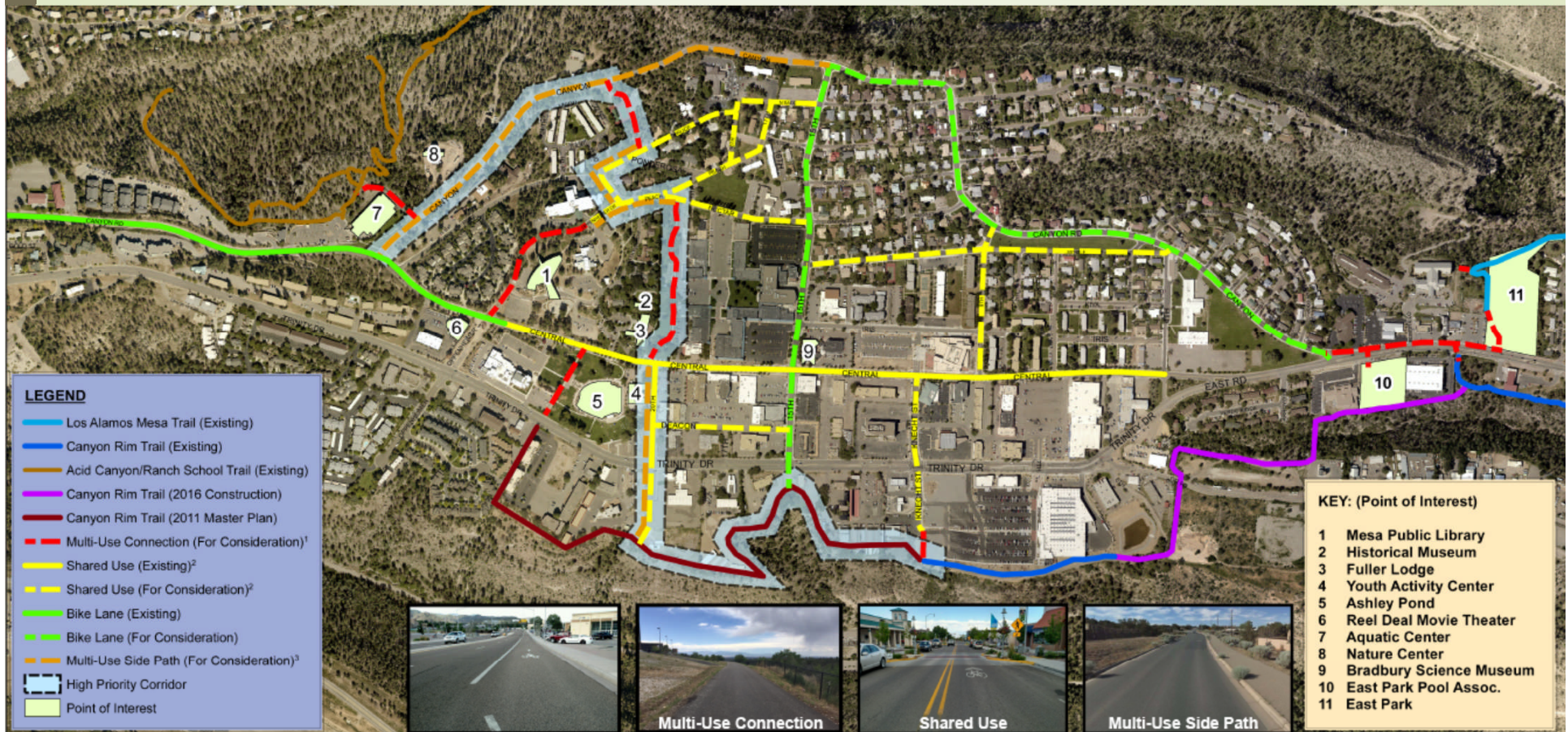
- Public Meetings – Began in March
 - Need for input from White Rock
 - Interest for Bandelier multi-use trail
- Online Public Survey (April 13-May 8th) – Public Outreach to inform public of the survey
 - Numerous routes discussed – overwhelming response for route between Los Alamos and White Rock
 - Safety needs due to distracted drivers and too few bike lanes and paths
 - Enforcement needs, maintenance of existing facilities (clear of debris, signing, markings, signalization)





Planned Improvements Los Alamos

- Multi-Use
 - Continuation of Canyon Rim Trail and connections to Trinity Drive
 - Urban Bike Path/High Priority Corridor (Plan Exhibit B)
 - Trinity Drive
- Shared use (Markings/Signing)
 - Canyon Road
- Trail Crossings
 - Trinity & 20th Street, Trinity & 15th Street
 - Underpass at Canyon Rim Trailhead at NM 502 & Camino Entrada
- Sidepath
 - Canyon Road – Rim Road to Central Avenue

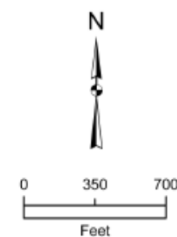


¹**Multi-Use Connection (Path)** – A bikeway physically separated from motor vehicle traffic by an open space within an independent right-of-way. Multi-use paths may be used by pedestrians, skaters, wheelchair users, joggers, and other non-motorized users. Most multi-use paths are designed for two-way travel.

²**Shared Use** – A lane of traveled way that is open to both bicycle and motor vehicle travel.

³**Multi-Use Sidepath** – A path located immediately adjacent and parallel to a roadway. Multi-use sidepaths may be used by pedestrians, skaters, wheelchair users, joggers, and other non-motorized users. Most multi-use side paths are designed for two-way travel.

Los Alamos Bicycle & Pedestrian Routes



Date: 8/10/2016



Planned Improvements

White Rock

- Multi-Use
 - Enhance portions of Canada del Buey and connections.
 - Piedra Loop south of Sherwood Boulevard
 - White Rock Canyon Rim Trail
- Shared use (Markings/Signing)
 - SR4/Rover/Meadow Lane Loop
 - Grand Canyon Road
- Trail Crossings
 - Canada Del Buey – Longview/Rover & Meadow Ln./Overlook
 - Sherwood/Piedra Loop



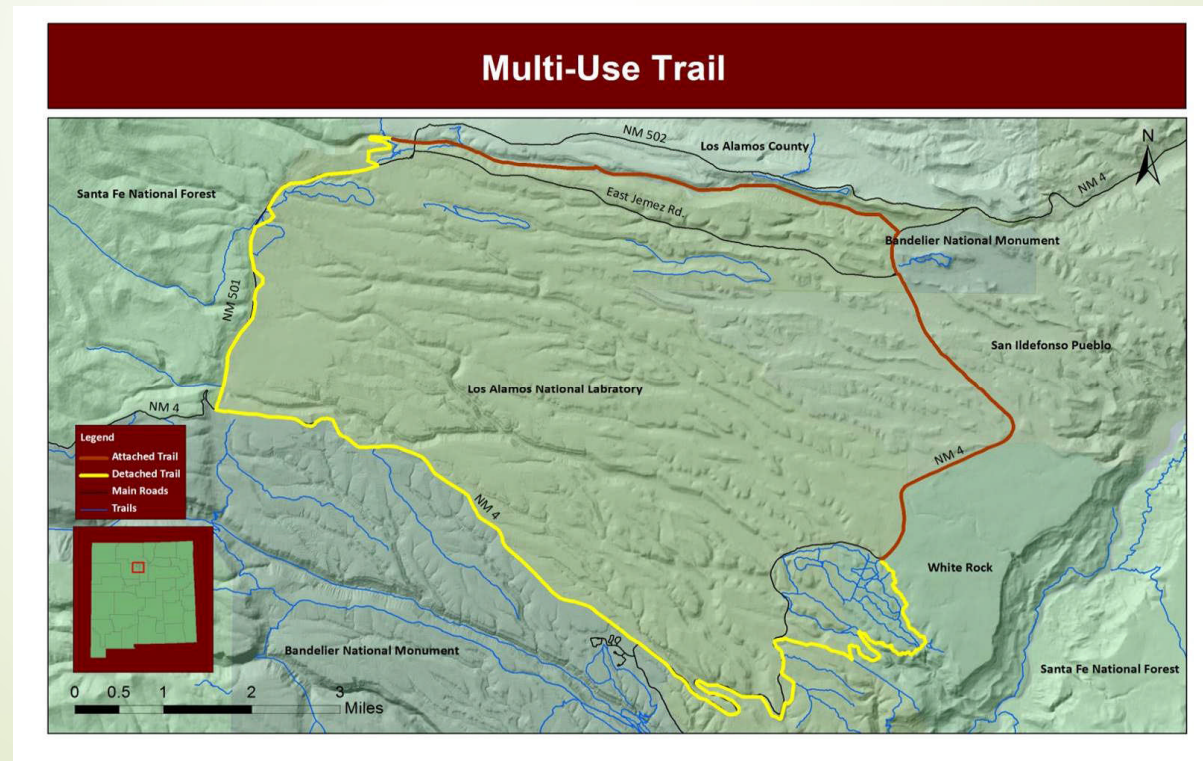


White Rock Bicycle & Pedestrian Routes



Planned Improvements Regional Planning

- State Road 4 – Rover Boulevard to East Jemez Road
 - NMDOT – 2020 Programmed reconstruction
- Bandelier Multi-Use Trail Plan





Planned Improvements Funding & Prioritization

➤ Funding Sources

- Federal – Transportation Arterial Program (TAP), Highway Safety Improvement Program (HSIP)
- State – Mainstreet grants, legislative capital outlay
- Local – Capital Improvement Program (CIP)

➤ Prioritization

- Governing Body Goals
- Public Input



Questions/Comments

County staff thanks
you for your input!

Phone: (505) 662-8150; Fax: (505) 662-8109

Email comments to: lacpw@lacnm.us



Bicycle Transportation Plan

Council Adopted June xx, 2017

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Executive Summary

Los Alamos County is an active outdoor community with scenic mountainous topography, natural landscapes, home to Los Alamos National Laboratory (LANL) and three national parks including the Bandelier National Monument, Valles Caldera National Preserve and the newly established Manhattan Project National Historical Park. With relatively low traffic congestion, an increasing contingent of bicyclists occupy the road network. The county is traversed with numerous trails shared by bicyclists, hikers, runners, walkers, and equestrians. Thus, bicycling is a natural part of the community setting for both recreation and transportation.

On July 26, 2005, County Council endorsed the Transportation Board's recommendation of the Los Alamos Bicycle Transportation System (Exhibit A), the first County document formally recognizing bicycle improvements during major maintenance, reconstruction or construction of roadway facilities and established bicycle routes and priorities. This document was produced through the Transportation Board's Bicycle Subcommittee. Along with numerous public meetings, the subcommittee issued polls to gauge citizen interest in bicycling as a form of transportation. The polls indicated that citizens favored adding bicycle and pedestrian infrastructure throughout the County and in a percentage comparable to other bicycle friendly communities that already use bicycles as a form of transportation to school and work. The mission of the subcommittee was to connect cyclists from their homes to their destination and provide safe and efficient *bicycling as transportation*. Therefore, routes were chosen to connect residential communities to destinations, particularly through collectors and arterials, and where possible, encouraging connectivity on state and LANL routes. The routes also focus on a 1-mile radius of local schools to address "Safe Routes to School" concerns.

Over the years several bicycle facility improvements were implemented countywide, including some of the priorities listed in the 2005 document. Further guidance to ensuring that *bicycling as transportation* was included in county planning occurred in 2010 with the passage of Council County Resolution 10-32, *Policy for the Design of Public Streets and Rights-of-Way in Los Alamos County*, (Exhibit B). More recently, a citizen petition was brought before the County Council in 2016 requesting development of an urban bike path through the center of town suitable for all users. Subsequently, a subcommittee of citizens and staff was formed at the direction of the Transportation Board. From their involvement, a planning map (Exhibit C) was developed linking points of interest within the town site utilizing the existing transportation framework with potential off-street, multi-use paths and on-road improvements. On this map, a "High Priority Corridor" was identified prioritizing further development of an urban trail. On July 26, 2016, County Council continued its support of bicycling by endorsing this map for inclusion in the Bicycle Transportation Plan and for use in programming future improvements.

In January 2017, the Transportation Board requested that a bicycle plan subcommittee be formed to create a Bicycle Transportation Plan. County staff from Public Works, Parks Recreation & Open Space, Community Development, the County Manager's Office, and interested citizens, began meeting in February 2017 to assemble a document aimed towards creating a comprehensive transportation network focusing on bicycle facilities in accordance with the 2016 Los Alamos Comprehensive Plan (Comp Plan). The Comp Plan identified three key areas for Los Alamos seen as valuable to the identity of the community. These key areas are: *Housing, Neighborhoods, and Growth; Development, Redevelopment, and Downtown; and Open Space, Trails, and Mobility*. The Bicycle Transportation Plan is a complimentary document to support these community goals and values.

Introduction

Goals & Objectives

The Plan's purpose and overall goal is to help advance a bicycle friendly environment where residents and visitors alike can enjoy a transportation system that encourages and empowers use of a bicycle as a key form of transportation. This can be accomplished by developing a more comprehensive transportation system focused on improved bicycle infrastructure, utilizing state of the practice methods and guidelines for improving bicycle facility safety and design, and by encouraging and educating the community about bicycling as a form of transportation.

The Bicycle Plan Subcommittee considered the following objectives in developing the plan:

Overall

- Council Strategic and Comp Plan goals for enhancing quality of life, tourism, and economic development
- Obtain progressive metal status as bike friendly community by the League of American Bicyclists
- Enhance and facilitate bicycle use for residents and visitors
- Improve the public image of bicycling as a safe mode of travel
- Create a system where users could use a bike as their main form of transportation

Infrastructure

- Improve and create more bikeways as part of the transportation network
- Provide connectivity (neighborhoods to destinations)
- Incorporate bike facilities in new and existing roadways
- Improve bicycle facility safety, design, and maintenance
- Enhance bicycle parking opportunities
- Integrate planned bicycle improvements and connections into the planning and design of new land development and redevelopment

Programs & Partnerships

- Incorporate interpretive opportunities into the bicycle transportation system (historical, geological, etc.)
- Improve wayfinding through signage, maps, and online tools
- Use "Safe Routes to School" Programs to encourage bicycling and improve routes
- Create incentives to ride a bike
- Obtain support and partner with local groups, businesses, and area government agencies and schools on bicycling
- Use recreational amenities and events to encourage bicycling
- Provide opportunities at public events to educate and encourage the community about riding safely, following rules/traffic laws, etc.

System Connections

A key goal is to create a bicycle system that connects destinations and key points of interest such as employment, retail and commercial areas, residential neighborhoods, community centers, and recreational facilities including parks and open space. The map and associated "High Priority Corridor" shown as Exhibit C, prioritizes such connections to notable points of interest in and around the

downtown area of Los Alamos utilizing the existing Canyon Rim Trail system and street network. These destinations include Ashley Pond, Fuller Lodge, Mesa Public Library, the Bradbury Museum, the Downtown Business District, the Nature Center, and the Aquatic Center.

In similar fashion, Exhibit D illustrates current and potential improvements to enhance connectivity within the White Rock area of the County. Given the expansive area, topography, and varying land ownership between White Rock and the Los Alamos town site, bicycle connections between these two areas of the county prove difficult. However, with the proposed roadway shoulder expansion project of NM 4 between E. Jemez Road and White Rock by the New Mexico Department of Transportation (NMDOT) and the existing transit service via the county's Atomic City Transit system, along with future trails plan for Bandelier (Exhibit E) by the National Park Service and continued coordination with LANL and the U.S. Department of Energy, efforts to improve and establish additional bicycle connections are possible. Los Alamos County is a willing and active participant with our state and federal partners to further enhance the bicycling experience.

Safety

Bicycle safety is a shared responsibility of all who share and interact with the transportation system including bicyclists, motorists, pedestrians, planners, engineers, designers and public agencies.

Users of the transportation system must be aware of local and state traffic laws that regulate bicycle use intended to promote safety. For example, the "Five Foot Rule" in Chapter 38, section 545 of the Municipal Code states, "When approaching or passing any person riding on a bicycle, the operator of a motor vehicle shall proceed with caution and shall pass such bicycle rider at reasonable speed and maintain a safe distance, no less than five feet from the operator of the bicycle." Also, In 2007 New Mexico implemented the Child Helmet Safety Act which requires that all persons under 18 year of age wear helmets when riding bicycles, skateboards, scooters, skates, and tricycles while on a public facility.

Federal, state and local jurisdictions have the responsibility to ensure safety in the transportation network through those who plan, design, build, and maintain these facilities, as well as ensure that the public is made aware of laws and regulations while ensuring those laws are enforced.

Resources to enhance bicycle safety awareness include a federal initiative launched by the United States Department of Transportation (USDOT) in 2015 entitled "Safer People, Safer Streets Initiative" From this initiative, new resources and research were rolled out to address non-motorized safety issues and help communities create safer, better-connected bicycling and pedestrian networks. Additionally, the University of New Mexico's Center for Injury Prevention Research & Education (CIPRE) is conducting a project in conjunction with the NMDOT called the New Mexico Pedestrian and Bicycle Safety Initiative Program. This program supports community organizations to improve pedestrian and bicycle safety through education, engineering, and encouragement. This program also conducts training for law enforcement agencies, engineers, community leaders, and pedestrian advocates statewide. CIPRE distributes information on outreach events and initiatives. Their website has links to government agency resources such as Federal Highway Administration (FHWA) and National Highway Transportation Safety Administration (NHTSA) policies regarding bicycle safety.

Health & Environmental Benefits of Bicycling

Bicycling is a healthy activity, and riders are known to live healthy lifestyles, get sick less often, and feel less stressed. The National Center for Safe Routes to School gives the following health benefits for kids who ride or walk to school:

- Weight and blood pressure control
- Bone, muscle, and joint health and maintenance
- Reduction in risk of diabetes
- Improved psychological welfare
- Better academic performance

Environmental benefits are many for the community. The implementation of a bicycle transportation system improves transportation options for commuters, thus reducing carbon emissions with the reduction of motorized vehicles and resulting in reduced wear on roadway system. Bicycling is also a more cost efficient mode of transportation. Bicycling in combination with use of the transit system and buses containing bike racks, is an excellent form of commuting and getting to town, particularly between the White Rock, the town site and LANL facilities.

Economic Development & Tourism

Expansion of the bicycle system and enhanced connectivity also supports economic development and tourism initiatives planned and in process.

Economic Development projects currently in process, such as the 20th Street Extension, Deacon Street Improvements, and DP Road and Tract A-16 Infrastructure, are planned with bicycle infrastructure, multi-use trail improvements and connections in mind. Potential land development associated with these initiatives include commercial and retail business, an RV Park, housing, etc. all of which will benefit greatly with an integrated transportation system.

With the recent creation of the Manhattan Project National Historical Park, tourism is anticipated to increase within Los Alamos. Improvements to bicycle infrastructure not only provides transportation options, but will supplement the establishment of tourist sites, walking/biking tours, and other methods of sharing the story of Los Alamos. Additionally, the Canyon Rim Trail, proposed extensions including the aforementioned "High Priority Corridor" (Exhibit C) are located in close proximity, within view, and overlook sites of historical significance.

Los Alamos' appeal as an outdoor tourist destination is not only attributed by the surrounding national parks, but is becoming increasingly known as a recreational trail and mountain bike destination observed by the annual Los Alamos Endurofest. The recreational trails network represented in Exhibit F and entitled "Los Alamos County Trails Network", is gradually undergoing transformation and improvement. One of the main priorities of the Los Alamos County Trail Network plan is to provide a wide spectrum of trail experiences, from entry level "Gateway Trails" and intermediate level paths, up to the more challenging advanced single track and finally gravity-driven bicycle-specific trails. With a few underpasses, safer road crossings, and other improvements, the system can be leveraged to provide an alternative mode of non-motorized travel throughout town in addition to providing recreation. Los Alamos clearly has the potential to be an International Mountain Biking Association (IMBA) Ride Center with opportunities for bicycle-specific facilities, front country-skills area, and back country-gravity driven resort-based trails. Significant epic adventures exist in the adjacent Santa Fe National Forest as well. All

with a back drop of an amazing southwest landscape. An application for an IMBA Bronze Level Ride Center Designation is in process. Once IMBA Ride Center designation is obtained, more interest in recreational trails is anticipated and the link to the transportation system will be even more important.

Bike sharing programs are opportunities to make reliable bicycles accessible to more residents and visitors for affordable short-range trips. They allow individuals to obtain a bicycle from point “A” and return the bicycle to point “B”. Bike sharing programs can be implemented by government entities, small businesses, or large companies. In 2015 the City of Albuquerque, through a partnership with Zagster, a bike sharing provider, introduced a pilot bicycle sharing program throughout the downtown area with stations strategically placed near transit stops. The county is exploring such a program in Los Alamos through possible partnerships, grants or entrepreneurial interest.

In summary, implementation and use of the Bicycle Transportation Plan can help to enrich current and future economic development initiatives, and enhance and create tourism, recreation and entrepreneurial opportunities, further increasing the community’s appeal as a tourist and employment destination, and overall great place to live.

Bicycle Friendly Community

It is also the County’s goal to become a Bicycle Friendly Community as designated by the League of American Bicyclists. The League of American Bicyclists was founded in the 1880s to advocate for paved roads. Today they aim to provide safer roads, stronger communities, and a bicycle friendly America for everyone.

In 2016 Los Alamos County applied through the League’s Bicycle Friendly Community Program the League presented the County with an Honorable Mention. The League provided the County with a report card (Figure 1) and a feedback report (League of American Bicyclists, 2016) that provided suggestions and recommendations for achieving a higher award status. Award status is good for 4 years and has five award levels: Bronze, Silver, Gold, Platinum, and Diamond. One notable suggestion was the need for a current bike plan. With adoption of the bike plan, recent Council Proclamation declaring May as Bike Month (Exhibit G), continuation and expansion of Bike to Work events and activities, and further implementation of the bicycle improvements, the County is well on its way to becoming an established Bicycle Friendly Community.

Designation as a “Bicycle Friendly Community” is not clear cut, which this allows communities to play on their strengths to make bicycling better for their respective communities. The League notes there are more than one route to becoming a Bicycle Friendly Community. Figure 2: The Building Blocks of a Bicycle Friendly Community, is a matrix identifying key benchmarks that the league considers to define the award levels and uses when considering communities for medal award status.



LOS ALAMOS COUNTY, NM

TOTAL POPULATION
18000

TOTAL AREA (sq. miles)
109.0

POPULATION DENSITY
165.1

OF LOCAL BICYCLE FRIENDLY BUSINESSES 0

OF LOCAL BICYCLE FRIENDLY UNIVERSITIES 0

10 BUILDING BLOCKS OF A BICYCLE FRIENDLY COMMUNITY

	Average Bronze	Los Alamos County
High Speed Roads with Bike Facilities	20%	110%
Total Bicycle Network Mileage to Total Road Network Mileage	25%	105%
Bicycle Education in Schools	AVERAGE	VERY GOOD
Share of Transportation Budget Spent on Bicycling	9%	20%
Bike Month and Bike to Work Events	AVERAGE	NEEDS IMPROVEMENT
Active Bicycle Advocacy Group	YES	YES
Active Bicycle Advisory Committee	MEETS EVERY TWO MONTHS	MEETS AT LEAST MONTHLY
Bicycle-Friendly Laws & Ordinances	AVERAGE	VERY GOOD
Bike Plan is Current and is Being Implemented	YES	SOMEWHAT
Bike Program Staff to Population	1 PER 145K	1 PER 18K

CATEGORY SCORES

ENGINEERING <i>Bicycle network and connectivity</i>	4/10
EDUCATION <i>Motorist awareness and bicycling skills</i>	4/10
ENCOURAGEMENT <i>Mainstreaming bicycling culture</i>	3/10
ENFORCEMENT <i>Promoting safety and protecting bicyclists' rights</i>	3/10
EVALUATION & PLANNING <i>Setting targets and having a plan</i>	4/10

KEY OUTCOMES

	Average Bronze	Los Alamos County
RIDERSHIP <i>Percentage of commuters who bike</i>	1.4%	3.6%
SAFETY MEASURES CRASHES <i>Crashes per 10k bicycle commuters</i>	1207	0
SAFETY MEASURES FATALITIES <i>Fatalities per 10k bicycle commuters</i>	21	0

Figure 1: The League of American Bicyclists Los Alamos, NM Report Card

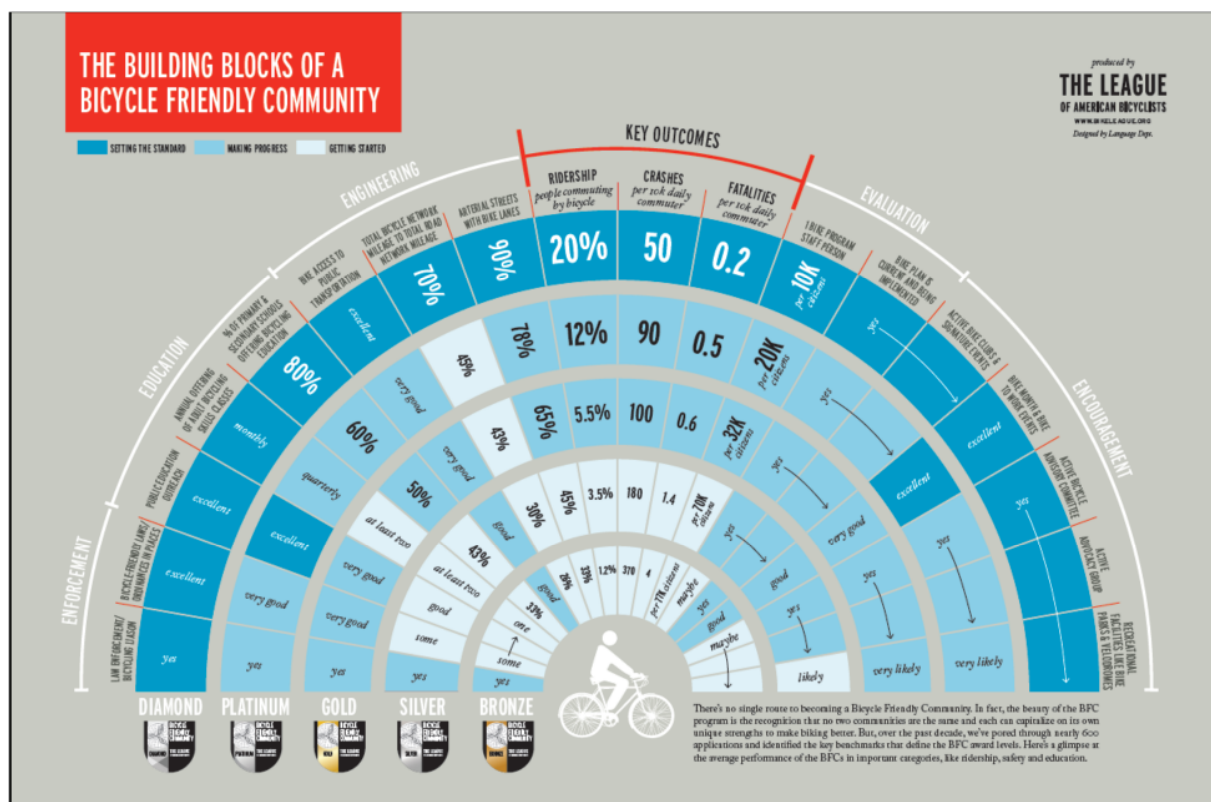


Figure 2: The Building Blocks of a Bicycle Friendly Community

The League conducted a public survey on behalf of the County, aiming to gauge bicycling interest in the community and how to improve. The survey compares data received from the respondents from Los Alamos County with a database of all BFC Survey Respondents in the year of the application (2016) and 2012 respondents of a NHTSA Survey. Los Alamos County respondents were asked how often they ride their bicycles and for what reasons, if they have had any bicycle safety training in the last 5 years, the proximity of bicycle facilities, their satisfaction of local government to implement facilities, and the safety factor within the community. Overall, Los Alamos County respondents answered similarly to those nationally. The majority of respondents ride at least once a month for recreation, exercise, and to commute to work. Training opportunities were not prevalent, and transportation bike facilities were typically close to half of the respondents, within a quarter a mile. The principal request for the local government is to add more bike lanes and paths. Slightly less than half of the respondents believe it is safe to ride a bicycle within their neighborhoods, while a measure closer to 15% believe it is unsafe, and the remainder say it depends (the main reasons being distracted drivers/riders and few bike lanes and paths). The survey highlights the need and desire for additional bicycle facilities.

The Five E's

The League emphasizes the 5 E's for a Bicycle Friendly America: 1. Engineering, 2. Education, 3. Encouragement, 4. Enforcement, and 5. Evaluation & Planning.

Engineering: Creating safe and convenient places to ride and park

The League cites that surveys indicate the most tangible evidence of a great location for bicycling is the presence of welcoming infrastructure. The most bicycle friendly communities have well-connected

bicycle networks using quiet neighborhood streets, conventional and protected bike lanes, shared use trails, and policies to ensure connectivity that continues to shape the system with future development and a system that continues to be properly maintained over time. Secure, convenient and readily available bike parking is also a key component towards promoting bicycling in the workplace and wider community. Through County investment and federal grants, Los Alamos has progressively improved its bicycling infrastructure with the construction of the Canyon Rim Trail, Canada del Buey Trail, and installation of bike lanes through various arterial roadways. Other completed improvements and guidelines utilized by the County for the design of bike facilities are discussed further in the document.

Education: Giving people of all ages and abilities the skills and confidence to ride

Having the skill and confidence to ride a bike is an important step in promoting the use of bicycle facilities. The League has a Smart Cycling program with over 2000 instructors around the country who deliver education programs. Public education of the laws of the road for both bicyclists and drivers are key components to educating users. Local government and state governments can promote sharing of the road through programs handed down to the public through their respective departments, such as motor vehicle and public education. Safety Town, an event held by the Los Alamos Police Department is a program for preschoolers entering Kindergarten where many safety topics are covered, bicycle, bus and pedestrian safety are all promoted with a partnership with the Los Alamos School District.

Education of motorists about safe operating behavior around bicyclists is also an objective necessary to make bicycling safer for all users. This can be done by working with local and state officials to integrate bicycle safety and awareness curriculum into driver education by way of the Motor Vehicle Division, private driving schools, and defensive driving courses. Training materials and courses for transit drivers can be modified to include bicycle awareness curriculum. For the general public, printed materials discussing County ordinances and general courtesy can be distributed for motorists driving and around bicyclists and vice versa.

Being courteous to others on the trails and streets is a large part of education for bicycling. Trail etiquette should be followed when riding on any bicycle facility. When using multi-use trails with different types of users always stay on the right to pass and warn other before passing either by using a bell or voice command, such as "on your left." Travel at a safe and controlled speed and do not stop and block the trail as others may be traveling toward you from either direction. Always be aware of your surroundings, if you use headphones make sure you can hear what is going on around you.

Encouragement: Creating a strong bike culture that welcomes and celebrates bicycling

Encouragement is needed to build a bicycling community. Local businesses, universities, health organizations, and local governments can promote bicycling throughout the community in many ways. Maps of the trail and bicycle system available at local businesses and other effortless locations, as well as signage and wayfinding for users, enables people to find ease in using bicycling as a means of transportation. Bike sharing is also a way to encourage riders and tourism can drive the need for bike sharing programs or bike rentals, as most tourists do not travel with their bicycles. National Bike Month is in May and many communities celebrate by holding community events during Bike to Work Week or Bike to Work Day.

A County Proclamation declaring May as Bike Month and supporting Bike to Work events was approved by the County Council on May 2, 2017 (Exhibit G). On May 19, 2017, “Bike to Work Day” events were planned to bring awareness and encourage bicycling as transportation. Bike to Work events will continue as a coordinated effort between County groups, such as the Transportation Board, Planning & Zoning Board, Public Works Department, Parks Recreation & Open Space, Police, Fire, and Transit, as well as employers and businesses such as Los Alamos National Laboratory (LANL), Los Alamos Public Schools (LAPS), Los Alamos Medical Center, the University of New Mexico–Los Alamos (UNM-LA), the New Mexico Department of Transportation (NMDOT), the Northern Pueblos Regional Transportation Planning Organization (NPRTPO), bike shops (in Los Alamos as well as nearby communities) local bike clubs, and bike vendors.



Enforcement: Ensuring safe roads for all users

Equitable laws and regulations for bicyclists and motorists set a good platform to ensure safety of all road users. Law enforcement should understand these laws and know how to enforce them equitably to ensure public safety. Officers on bicycles also ensure that law enforcement understands the issues cyclists face while using the transportation system adjacent to vehicles. Los Alamos County Police Department utilizes bike patrols and has adopted the “Five Foot Rule” (Chapter 38, Section 545 of the Municipal Code) which states, “When approaching or passing any person riding on a bicycle, the operator of a motor vehicle shall proceed with caution and shall pass such bicycle rider at reasonable speed and maintain a safe distance, no less than five feet from the operator of the bicycle.”

Evaluation & Planning: Planning for bicycling as a safe and viable transportation option

Active citizens and support by the local government contribute to a community’s success in developing a seamless bicycle network. Evaluation and Planning includes compiling data, creating and updating a comprehensive bicycle master plan, and identifying dedicated funding sources needed to plan towards creating a comprehensive system. The Transportation Board, other county committees, and staff by working together can help decision makers prioritize bicycle system projects on a regular basis. Through development of this plan, the Los Alamos County has taken an incredible step towards a comprehensive transportation system.

Design Policies & Guidelines

Complete Streets

The USDOT identifies complete streets as “streets designed and operated to enable safe use and mobility for all users, including people of all ages and abilities, regardless of whether they are traveling as drivers, pedestrians or bicyclists or riding public transportation.” Complete streets designs are developed to encourage slower speeds of vehicles and prevention of conflicts between all modes of transportation. Studies carried out by the National Complete Streets Coalition have shown that by implementing the Complete Streets model, local economies are stimulated. Further, public transit

stands to be supported by street designs that encourage walking and bicycling for transportation. Another element of complete streets includes trees, “which remove substantial volumes of carbon dioxide and other air pollutants, catch storm water, and reduce urban heat-island effects, along with creating safer and more sociable neighborhoods, contributing to a sense of community, economic viability, environmental sustainability and healthier people.”

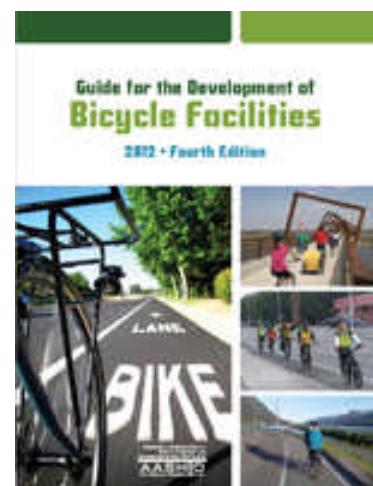
In January 2017, the New Mexico State Legislature signed Senate Memorial 35 and House Memorial 29 that recognizes and congratulates the leadership and accomplishments of local and tribal governments, agencies and team members that are committed to the safety of all users of roadways in promoting and implementing complete streets throughout New Mexico. The memorials continue that complete streets be recognized for its understanding that transportation is about moving people and connecting, supporting, and building vibrant communities.

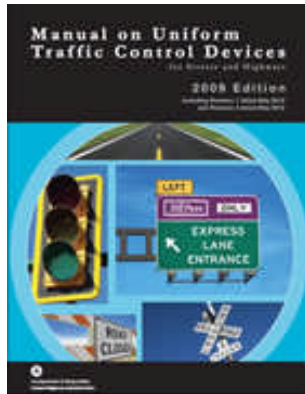
National 2015 statistics show 35,092 traffic fatalities, of which 5,376 were pedestrian fatalities—an increase of 7.2% from 2014, with New Mexico having the highest rate of pedestrian fatalities in the nation. It is also estimated that by 2030, New Mexico will be fourth in the nation with a population 65 years of age or older. Complete streets initiatives provides an opportunity to improve safety of all users and provides our aging population with increased travel options. The State of New Mexico has a complete streets leadership team consisting of members statewide with technical expertise to advance policy, practices and projects that support safety and mobility of all users of public streets and roadways.

Locally, Los Alamos County Resolution 10-32, *Policy for the Design of Public Streets and Rights-of-Way in Los Alamos County*, (Exhibit B) was developed with the complete streets guiding principles in mind. The policy establishes the goals for street, right-of-way and intersection design, and land use decisions to ensure they are mutually reinforced, creating synergy through promoting safety health, economic vitality, environmental sustainability, and livability throughout the community.

Federal Design Guidance

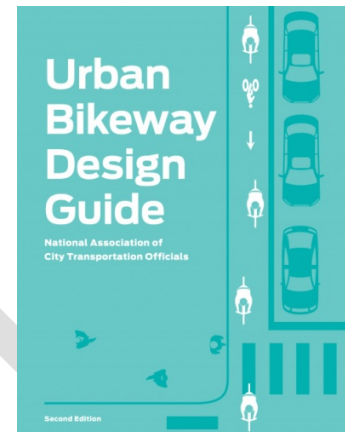
In 2012 AASHTO published the 4th edition of the Guide for the Development of Bicycle Facilities updated from the previous volume published in 1999. This guidance manual highlights and clarifies elements needed to make bicycling safe, comfortable, and convenient as a form of transportation. Information found in this guide includes accommodating bicycle travel and operation. Sound guidelines are outlined to design facilities that will meet the needs of both bicyclists and drivers. “Good design practice involves engineering cost-effective solutions that balance safety and mobility for all transportation modes, along with preservation of scenic, aesthetic, historic, cultural, and environmental resources.”





The Manual on Uniform Traffic Devices (MUTCD), incorporated by reference into the Code of Federal Regulations, is recognized as the national standard for all traffic control devices installed on any street, highway, bikeway, or private road open to public travel. Part 9 is dedicated to traffic control for bicycle facilities, including: signing, markings, and signalization.

National Association of City Transportation Officials (NACTO) is a non-profit association representing the nation's large cities and facilitates the exchange of best practices and transportation insights. They promote sharing data and building a common vision with cities around the nation to raise the state of engineering practice for urban design. NACTO has published the Urban Bikeway Design Guide to provide cities with current solutions to create complete streets in urban settings. This guide offers additional design treatments for bicycle facilities not referenced within the AASHTO Guide, although most are permitted under the MUTCD. FHWA issued a memorandum officially supporting the use of the document in 2013.



These guidelines include many bicycle facility treatments for consideration into the local system, including, but not limited to, signal actuators for cyclists at intersections, at-grade crossings, grade-separated crossings, and Green Pavement Markings. Los Alamos County readily utilizes these guidance manuals in the planning, design, construction and maintenance of its transportation facilities.

County Development Code

In newly developed or redeveloped properties, consideration should be given to all transportation modes including bicycle facilities to the greatest extent possible, to connect to the public transportation system, parks and open space. No impediments to existing and future bicycle and pedestrian connections should be caused due to development.

The Comprehensive Plan as related to trails outlines several policies directed at economic vitality, land use, and infrastructure. To inspire economic vitality, the following three policies were adopted: (1) develop and expand trails connecting downtown to surrounding open space, (2) create or improve trails that serve residents of all ages, and (3) connect County trails to non-County-owned trails adjacent to/near County land. Pursuing federal and state funds; obtaining a bicycle friendly community designation; and developing policies for off-trail foot, bicycle, and equestrian travel would be strategies to fulfill the policies. Land use policies of promoting safety for pedestrians and bicyclists on paved trails and streets and ensuring that private development is required to provide trail connections that may not create impediments to trail connections were set forth. These policies would be accomplished using the following four strategies: (1) map trails, identify gaps in trail connections, and propose connection strategies; (2) develop a strategy for the prioritization of gap connections; (3) consider alternate means of circulation, especially for the Americans with Disabilities Act (ADA) individuals, including golf carts in historic areas; and (4) consider signage or speed controls to slow bicyclists when they are on same path as pedestrians. The infrastructure policies consist of (1) creating designated, safe, convenient, and well-maintained bike and pedestrian pathways and sidewalks; (2) incorporating multi-use trails whenever

possible; (3) recognizing and acknowledging the difference between bicycling for recreation and bicycling for transportation; and (4) ensuring safe trail crossings (especially at arterials) and weigh cost/benefits of underpasses and/or overpasses. It is anticipated that by examining the potential to expand the paved and accessible Rim Trail and to link the Rim Trail to Mesa Trail while considering wider easement requirements for trails, the infrastructure policies will be accomplished.

Mobility is also a core theme of the Comprehensive Plan and discusses the adoption of the complete street concept while incorporating facilities that accommodate all users of all abilities. Because bicycling as a means of transportation has grown significantly nationwide through many New Mexico communities and is of great interest in Los Alamos County, it is anticipated that bicycling to work from White Rock and around Los Alamos could become increasingly more popular. Because of the proximity of the Los Alamos National Laboratory, the area's largest employer, to housing in Los Alamos and with the economic development goal of increasing housing within the town site, the need for a more comprehensive bicycle transportation network is anticipated.

Bicycle Infrastructure Inventory & Completed Improvements

Types of Facilities

Shared use paths or multi-use trails are typically separated from vehicular traffic either by open space or a barrier or maybe contained within rights of way independent of the street system. Multi-use trails provide a non-motorized means of transportation for pedestrians, bicyclists, and those requiring the use of power assisted devices. Side paths are another form of multi-use path located adjacent and parallel to a roadway and typically are intended for two-way travel. Side paths are safest and function best where there are limited driveway and side street crossings.



Bike lanes are a portion of the roadway designated for exclusive use by bicyclists and are shown by pavement markings and signage. Bike lanes are intended for one-way travel adjacent to lanes designated for vehicles; a buffer may exist between the lanes to create a higher level of comfort for bicyclists. "Road diets" are a form of treatment where the number of lanes on a roadway can be reduced to allow for bike lanes. It can have many benefits such as reducing crashes; improving operations; and improving livability for pedestrians, bicyclists, businesses, etc.

Shared lanes are designated with signs, such as "share the road," and markings called "sharrows" or "shared lane arrows." These designations are used on low-speed streets where cyclists are encouraged to take the lane.

Multi-use Trails and Side Paths

In 2009 the County Council approved \$1.2 million in Capital Improvements Program (CIP) Funds for the initial phase of the Canyon Rim Trail, a paved multi-use trail on the south side of NM 502 from the Camino Entrada area to Fire Station 6, approximately a 7,600-foot-long. This section of trail was opened to the public in the late summer of 2010. The project was very popular and brought interest for continuing the trail to the west along the Canyon; thus the Canyon Rim Trail Master Plan was created, which was adopted by the County Council in 2011. As part of the plan, new extensions were envisioned

from terminus of Phase 1 near Fire Station 6 to Oppenheimer Drive. The plan provided a vision for developing projects and a mechanism to pursue funding for this work.

A subsequent project, Phase 2, starting at the end of Phase 1 to Smith's Marketplace (Kroger Development), was funded for design and construction through County CIP funds and a Transportation Alternatives Program (TAP) grant from the NMDOT. This project was completed in the winter of 2016. As part of the Kroger development, a portion from west of DP Road towards the west near Knecht Street was constructed. A trail-street connection from the trail end north to Knecht Street was built as part of the Knecht Reconstruction Project. The trail today

extends a length of approximately 2.7 miles.

Efforts to continue the trail west have also begun with an engineering task order underway for easement acquisition and preliminary engineering for a portion of trail from the Knecht Street connection to 20th Street. Last, a 2018-19 TAP application was submitted to the NMDOT for funding of an underpass at the trailhead near Camino Entrada under NM 502. A letter announcing award was received by County Public Works staff in April 2017. Design funds are programmed for Federal Fiscal Year 2018 and Construction funding in 2020. Both of these projects are identified in the Comprehensive Plan on its "Needed Trail Connections Map" as trail connections with known gaps (Exhibit H)

The Canada del Buey Trail is an asphalt paved side path from State Road 4 to Rover; from Rover to the Overlook Park entrance, the trail surface consists of crusher fines. This trail was constructed in the summer of 2012.



Figure 3 CANYON RIM TRAIL PHASE II



Figure 4: CANYON RIM TRAIL PHASE II BRIDGE



Figure 5: CANADA DEL BUEY SIDE PATH

Sharrows

Sharrows have been applied on many low speed streets (35 mph or less) where bicycling and vehicle traffic share the lane. Typical placements of sharrows are on streets where shoulders or bike lanes do not or cannot exist because of right-of-way restrictions, parking, or transit stops. These markings are desirable in urban settings, where a higher level of guidance to both bicyclists and motorists is required.

Central Avenue has been reconstructed through the downtown area with an urban streetscape design including on street parking, streetscapes with plantings and furniture, and wide sidewalks for pedestrian traffic. The roadway is typically two lanes, aside from where turn lanes are necessary. The design promotes a low speed environment where bicyclists and motorists can navigate the roadway collectively. Sharrows are used throughout this roadway to give bicyclists and motorists guidance.

Sherwood Boulevard, between NM 4 and Aztec Road in White Rock, was reconstructed in 2015 with similar design features including on street parking, a bus pullout with shelter, and sharrows.

Bike Lanes/Shoulders

From 2007 through 2011, Diamond Drive was reconstructed in four phases from Omega Bridge to the roundabout at San Ildefonso Road and included bike lanes in both directions. San Ildefonso Road also contains shoulders for bike use from Sioux Street to Chamisa Street. Canyon Road, from Diamond Drive to 15th Street also contains bike lanes and shoulders

In 2011, NM 4 from Rover to Pajarito Road was reconstructed, and bike lanes were included in the development and construction of the project. The NMDOT currently has an approximately 3 mile reconstruction project programmed for Federal Fiscal Year 2020 for NM 4 between East Jemez Road and Rover Boulevard. The project is slated to add shoulders on both sides of NM 4 to accommodate bicyclists.



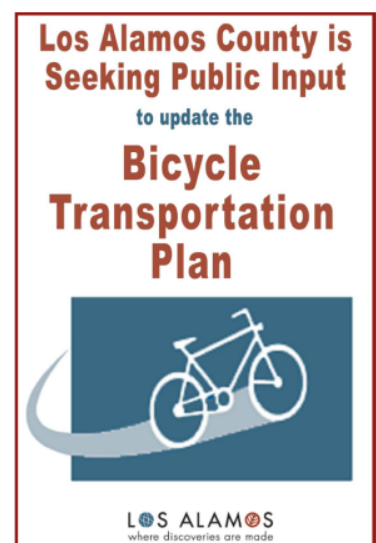
Figure 6: NM 4 BIKE LANES AND SIDE PATH

Planned Improvements

Public Involvement & Input

The bicycle transportation plan was presented to the public in several different formats during the planning stages in order to ensure input was gathered from variety of groups individuals within the County. Public meetings were held at regularly scheduled County Board meetings and meetings focused on the plan were held in Los Alamos and White Rock. Exhibit I is a list of all meetings that were conducted.

The County also instituted an online survey from April 13, 2017 to May 8, 2017 utilizing the County's "Open Forum" webpage. The survey was advertised through the media, with flyers at local libraries and related business, as well as at events. One such event occurred at the farmer's market, where County staff greeted and discussed the plan with the public and circulated the link for the survey. The survey was brief,



twelve questions, and was visited by 290 residents and had 239 responses.

Residents were asked to discuss their riding habits, whether they rode for transportation or recreation, average distances they travel by bicycle, if they use transit in conjunction with their bicycles, what would make them more inclined to ride more, among other questions shown in Exhibit J. To make it more specific to Los Alamos County there were several questions where the respondent was able to discuss in more depth the routes they use or would like to take and what would they think would improve the system. Response to the survey and input received was tremendous.

Currently within the County residents are using their bicycles overwhelmingly for both recreation and transportation and the majority of respondents ride their bikes over one mile every week, with over 25% riding daily. Some of the most prevalent transportation routes are: northern neighborhoods to downtown or LANL; Diamond Drive; routes within White Rock; the “Bandelier Loop”; and the Canyon Rim Trail.

For those who use their bicycles less frequently, there were a variety of reasons. However the majority of respondents said they don’t feel safe while biking. The pie chart in Figure 7 below, shows reasons why respondents feel unsafe while biking as discovered from the survey.

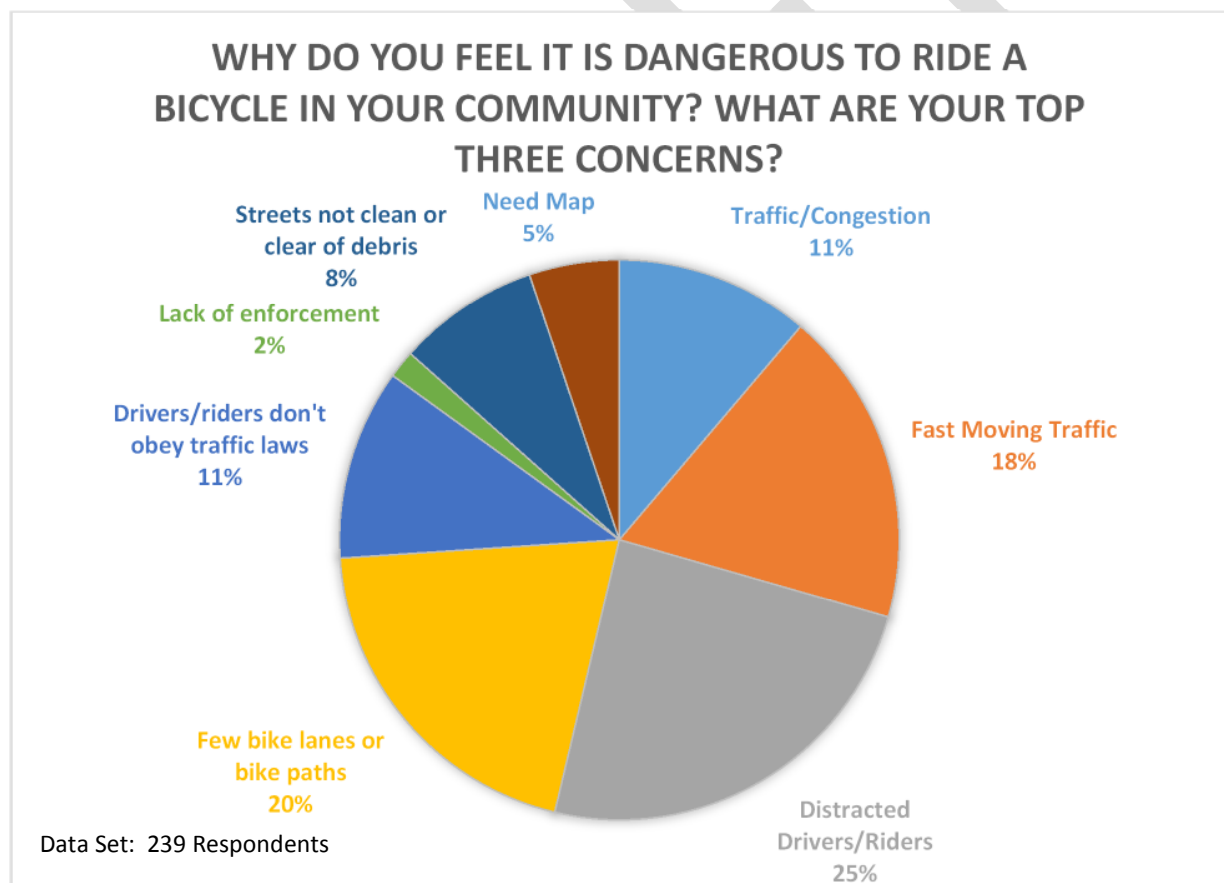


Figure 7: Question 9 - Bicycle Transportation Plan Survey

The following question of the survey made an effort to find solutions to the needs of riders by asking what changes in the system would increase cycling habits, figure 8 summarizes these responses.

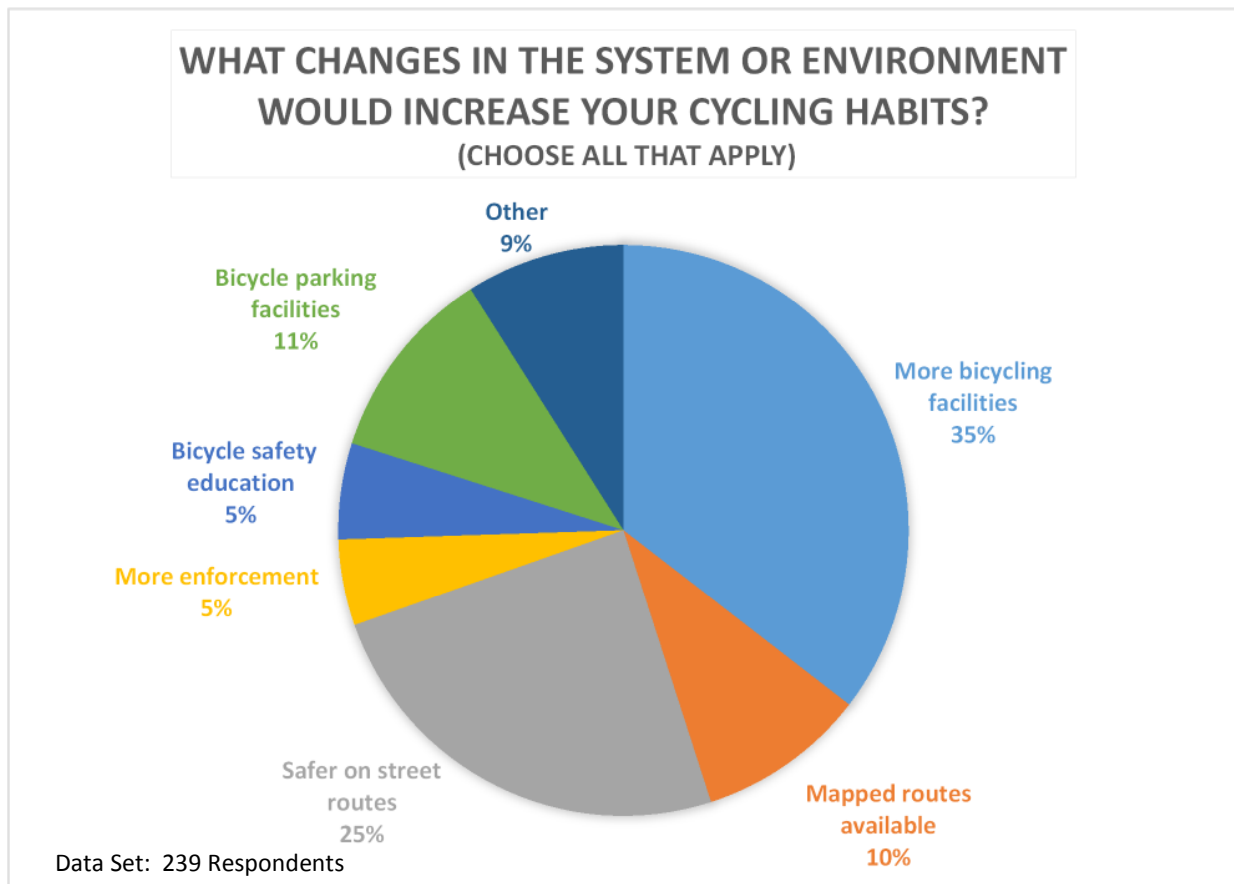


Figure 8: Question 10 – Bicycle Transportation Plan Survey

As shown in Figure 8 the majority of respondents are looking for more bicycling facilities. From the survey respondents were asked to be more specific regarding facilities or routes they would like to see developed. From the 161 Respondents 50 listed the need for a bicycle route on NM 4 between Rover Boulevard and East Jemez Road (truck route). As noted previously, this state route is programmed for widening in federal fiscal year 2020 by the New Mexico Department of Transportation. In General, more bike lanes and multi-use trails county wide were requested and more specifically; adding a bicycle route on or near Trinity Drive; Diamond Drive over the Omega Bridge (DOE facility); and the extension of the Canyon Rim Trail from the Northside of NM 502 to the Medical Center or Omega Bridge. Other concerns that had a large number of responses include enforcement; signal timing; adding signing; bicycle related markings; and maintenance of existing facilities to ensure safety and longevity of the system. A tally of results from the public comments can be found in Exhibit J and the County Public Works Department has a record of all comments.

2005 Priorities

The table below shows the priority streets identified and adopted in the 2005 Bicycle Transportation System and the status of bicycle facilities that are currently in place on these routes.

Table 1: 2005 Bicycle Transportation System "Priority Streets"

Priority 1 - Arterials	
Diamond Drive (Omega Bridge to San Ildefonso Road)	Bike Lanes
Central Avenue (NM 502 to Rose Street) 9th Street to Oppenheimer Oppenheimer to Canyon Road	Sharrows Installed Bike Lanes Installed
Canyon Road (Rose Street to Diamond Drive)	Bike Lanes Installed
Trinity Drive - East Road (Diamond Dr. to Airport Rd.) Diamond Drive to 4th Street 4th Street to Tewa Loop Tewa Loop to Airport Road	* Bike Lanes Pending NMDOT Project *
Priority 2 – Major Collectors	
Arkansas Avenue and North Road	*
Grand Canyon Drive	*
Rover Boulevard and Meadow Lane	*
San Ildefonso North (Diamond Drive to beginning of Barranca Road) Diamond Drive to Chamisa Street Chamisa Street to Barranca Road	Bike Lanes *
San Ildefonso Road South (Diamond Drive to Sioux Street)	Bike Lanes
38th Street	Bike Lanes
Villa Street	Shoulders
Priority 3 – Minor Collectors	
Bryce Avenue	*
Canyon Road (NM 502 to Central Avenue) NM 502 to 15th Street 15th Street to Central Avenue	* Shoulders
North Mesa Road	*
Sherwood Boulevard NM 4 to Aztec Road Aztec Road to Piedra Loop Canada Way to Piedra Loop	Sharrows Installed Sharrows Installed Single Striped Bike Lane
Western Area Loop: Trinity Drive from Diamond Drive to 48th Street, 48th Street to Sandia Drive, and Sandia Drive to Diamond Drive	*
Urban Street (Diamond Drive to North Road)	*

* No Separate Bicycle Facilities/Shared Use

New Bicycle Transportation Priorities

Within the Los Alamos and White Rock areas there are many stakeholders that will be critical in the development of the bicycle transportation network, they include, but are not limited to, Los Alamos County, Los Alamos National Laboratories, Department of Energy, State of New Mexico Department of Transportation, San Ildefonso Pueblo, Santa Fe County, Bandelier National Park, Manhattan Project

National Historic Park, Valles Caldera National Preserve. With collaboration with all stakeholders it is the County's ambition to obtain a well-connected bicycle transportation system crossing jurisdictions and make connections to recreational trails, recreational centers, business centers and points of interest.

County bicycle infrastructure improvement projects currently in process include:

- Urban Bike Path/High Priority Corridor (See Exhibit C)
- Canyon Rim Trail Phase 3
- Canyon Rim Trail Underpass at Camino Entrada and NM 502 (Federal funded)

The Urban Bike Path project was brought forth by public interest and approved by Council in 2016 and subsequently funded with fiscal year 2018 capital improvements funding. The Canyon Rim Trail Phase 3 is a continuation of the Canyon Rim Trail from Knecht Street to the new 20th Street extension. This project was funded with 2017 capital improvements program funds. The Canyon Rim Trail Underpass at Camino Entrada and NM 502 as discussed previously, was awarded a federal Transportation Arterial Program (TAP) grant in the spring of 2017, design funding is programmed for federal fiscal year 2018 and construction funding in 2020.

Based on public input received and ongoing planning review, the following is a list of potential projects that could be considered for further study and/or development in Los Alamos:

- Trinity Drive Corridor bicycle facilities
- Bicycle Route over Omega Bridge
- Direct route from northern residential areas to the business district

Trinity Drive, a state of New Mexico highway, is the more heavily traveled of two East-West arterials within the business district, the other being Central Avenue. While bike lanes or protected bike lanes are a typical treatment on a 35 mph arterial, a combination of limited right of way and numerous side streets and curb cuts coupled with a significant grade in both the east and west directions make installation of bike lanes challenging. Alternative treatments to improve bicycling mobility include an extension of the Canyon Rim Trail, and using Central Avenue and Deacon Street as parallel bike route. Further study, potential for right of way acquisitions, and development will be necessary to determine the most favorable route.

In White Rock wide neighborhood streets with lower posted speeds and a recreational trail system already in place allows for good opportunities to expand upon the bicycle transportation network. The Vision Statement of the 2008 White Rock Master Plan is ..."People walk and bike everywhere, getting to their destinations along and across improved streets with landscaping and along new pathways. Crossing State Road 4 should be safe and inviting." While several facilities mentioned in the 2008 plan have been implemented, the bicycle transportation plan looks to further this vision.

Public comment and field reviews have observed several potential projects within the White Rock area. They are as follows and shown graphically on Exhibit D:

- Multi-Use Trails
 - Extend Canada del Buey Multi-Use trail to connect to Overlook park
 - Enhance neighborhood connections.
 - Trail improvements from Piedra Loop south of Sherwood Boulevard

- White Rock Canyon Rim Trail Improvements
- Improve and connect Overlook Park Multi-use trail
- Bike Lanes/Shared use (Markings/Signage)
 - The “Loop” that is made up of Rover Boulevard and Meadow Lane
 - Sherwood Boulevard - Aztec Avenue to Piedra Loop
 - Grand Canyon Drive – NM 4 to Meadow Lane
 - Aragon Avenue – Rover Boulevard to Cheryl Avenue
 - Bryce Avenue – Rover Boulevard to Meadow Lane
- Trail Crossings
 - NM 4 at the White Rock Visitors Center
 - Crossing of the Canada Del Buey at Longview & Rover, Meadow Lane & Overlook
 - Sherwood Boulevard at Piedra Loop
- Future Development
 - Tract A-19 (Incorporation of trails and bike lanes into development plans)

On-Road Operational Improvement (County Wide) via use of signing, pavement markings and striping provide additional opportunities to provide and/or enhance bicycle facilities on existing infrastructure and are generally lower cost in nature as compared to road construction or reconstruction. Such improvements include:

- Sharrow Markings
- Striping or re-striping for bike lanes
- Crossing Improvements (signs, markings, lighting, signals/beacons)
- Wayfinding Signage

Regionally there are several regionally significant projects other stakeholders have been planning. The New Mexico Department of Transportation programmed a reconstruction project that proposes 6' shoulders on each side of NM 4 from Rover Boulevard to East Jemez Road (Truck Route). This project funded and managed by NMDOT is programmed for construction in federal fiscal year 2020. The second project is a 30 mile loop around Los Alamos and White Rock. The National Park Service developed the Bandelier Multi-Use Trail Plan in 2015—Exhibit E is a map denoting its potential location. The plan's objective is to: “Establish a multi-use trail connecting Bandelier National Monument to existing local attractions and provide a central recreational feature which will branch into the new National Park Service locations, the Manhattan Project National Historic Park and the Valles caldera National Preserve.”

Bandelier Multi-Use Trail Plan Goals:

- Foster cooperative partnerships with Federal, State, County, and Tribal agencies, non-profit organizations, and community groups to coordinate recreation management and alternative transportation modes.
- Develop a multi-use trail from Los Alamos residential areas to Bandelier National Monument, connecting through White Rock, LANL, and Santa Fe National Forest.

Funding & Prioritization

Public funding sources include federal, state, and local programs.

Through the US Department of Transportation and federal legislation, the Transportation Alternatives Program (TAP) is a funding mechanism for bicycle and pedestrian improvements. Federal Highway Safety Improvements Program (HSIP) funds are also available for transportation projects that will administer safety to the traveling public (vehicle, pedestrian and bicyclists). Both federal programs are administered by the NMDOT through a competitive statewide process. The selection process for HSIP relies on measurable safety data to prioritize projects for selection, while TAP looks more broadly to safety, economic development, accessibility/connectivity, environment, and system preservation.

Los Alamos has received two TAP grants in recent years, the first for the design and construction of the Canyon Rim Trail Phase 2 Project completed in 2016. The second project is the proposed underpass at NM 502 and the Canyon Rim Trailhead and Camino Entrada, for design and construction programmed in federal fiscal years 2018 and 2020, respectively.

The State of New Mexico administers legislative funding sources for infrastructure projects statewide. New Mexico Mainstreet is a program within the State of New Mexico, Economic Development Department that supports development of attractive “main streets” within New Mexico communities. Central Avenue in Los Alamos has been awarded several “main street” grants.

Locally, the County the most common funding mechanism for capital improvements is the Capital Improvement Program comprised of general funds afforded through gross receipts tax. General Obligation Bonds are another avenue for funding capital projects at the local level, but requires voter approval as revenue for these measures are associated with property taxes.

Conclusion

The Bicycle Transportation Plan is intended to be a living document serving as a helpful guide with deriving project prioritization and advance the establishment of project funding sources for the eventual development and implementation of bicycle infrastructure and programs previously discussed—or others that may take root from plan topics. Implementation of bicycle infrastructure improvements can occur in a variety of ways, through the inclusion of bicycle facilities into transportation projects, through the County development review process for private development, and through inclusion bicycle facility improvements in the Capital Improvement process by the County and area public agencies.

Continued public input and involvement of County Council, boards and commissions for prioritization and programming of individual projects and programs prompted a result of this plan will be important to further and overall improve the bicycle system. Partnerships with area agencies will be equally important as the County works towards a well-connected, safe bicycle transportation system and vision of creating a comprehensive transportation network.

Exhibits

- A. 2005 Los Alamos Bicycle Transportation System
- B. Los Alamos County Resolution 10-32
- C. Los Alamos Bicycle & Pedestrian Routes Map (Priority Corridor)
- D. White Rock Bicycle & Pedestrian Routes Map
- E. Bandelier Plan: Multi-Use Trail Map
- F. Los Alamos County Trails Network
- G. Bike Month Proclamation
- H. Comprehensive Plan: Exhibit 38 - Needed Trail Connections Map
- I. Public Meeting List
- J. Open Forum Survey Questions and Results

Exhibit A: 2005 Los Alamos County Bicycle Transportation System

LOS ALAMOS COUNTY BICYCLE TRANSPORTATION SYSTEM

The Transportation Board recommends to Council that the following roads be adopted as the Los Alamos County Bicycle Transportation System. Throughout this Bicycling Transportation System, bicycling improvements (appropriate to each facility) should be implemented when major maintenance, reconstruction, or construction is performed on the roadway facilities included below.

Bicycling improvements should be appropriate to the type of roadway in question, such as wider shoulders on highways or bike lanes on arterials (if possible); and should include bicycle-friendly intersection improvements, uniform signing, and appropriate markings; and should avoid the use of bicycle unfriendly infrastructure such as parallel gratings, poorly placed rumble strips, or use of the gutter-pan as part of the travel lane. In addition to improvements, appropriate preventative maintenance must continue to be performed throughout the system such as routine sweeping, pothole patching, and snow removal. Furthermore, the County should review the Bicycle Transportation System periodically to ensure that any new developments are bicycle-friendly.

PRIORITY I

Arterials:

- a. Diamond Drive from San Ildefonso Road to Omega Bridge.
- b. Central Avenue from NM 502 to Rose Street.
- c. Canyon Road from Rose Street to Diamond Drive.
- d. Trinity Drive – East Road from Diamond Drive to Airport Road.

PRIORITY II

Major Collectors:

- a. Arkansas Avenue and North Road.
- b. Grand Canyon Drive.
- c. Rover Boulevard and Meadow Lane.
- d. San Ildefonso North from Diamond Drive to the end of Barranca Road.
- e. San Ildefonso Road South from Diamond Drive to Sioux Street.
- f. Thirty-eighth Street and Villa.

PRIORITY III

Minor Collectors:

- a. Bryce Avenue.
- b. Canyon Road from NM 502 to Central Avenue.
- c. North Mesa Road.
- d. Sherwood Boulevard.
- e. Western Area Loop: Trinity Drive from Diamond Drive to 48th Street, 48th Street to Sandia Drive, and Sandia Drive to Diamond Drive.
- f. Urban from Diamond Drive to North Road.

Los Alamos County supports and promotes regional bicycle transportation and therefore, encourages connectivity through adjoining jurisdictions. It is recognized that the County does not own the following "Regional Connectors" listed below. That said, the County should cooperate with neighboring government entities, to the extent possible, to develop appropriate regional bicycling infrastructure.

REGIONAL CONNECTORS

Department of Transportation Roads:

- a. NM State Road 4.
- b. NM State Road 501.
- c. NM State Road 502.

LANL Roads:

- a. Pajarito Road.
- b. East Jemez Road (Truck Route).
- c. Diamond Drive from Omega Bridge to Pajarito Road.
- d. Bikini Atoll Road from West Jemez Road to Mercury Road.
- e. Mercury from Pajarito Road to Bikini Atoll Road.
- f. West Road from Diamond Drive to NM 501.

Motion passed, 5-0.

(End of motion text)

Background

Several years ago, Los Alamos County tasked the Bicycle Subcommittee of the Transportation Board to gauge citizen interest in bicycling and to recommend a bicycle master plan to Council through the Transportation Board. As part of this task, the County commissioned two polls to gauge interest in bicycling, especially as a form of transportation, and to solicit input as to the kinds of bicycling improvements desired.

The results of these polls were encouraging. The 2002 Community Perception Study (Research and Polling, Inc.) indicated that 10% of respondents rode to work or school more than 50 times per year and another 9% rode between 6 and 50 times per year. This number compares favorably with bicycling-friendly communities such as Gainesville, Florida; Eugene, Oregon; Boulder, Colorado; and Madison, Wisconsin ([FHWA-PD-92-041](#)).

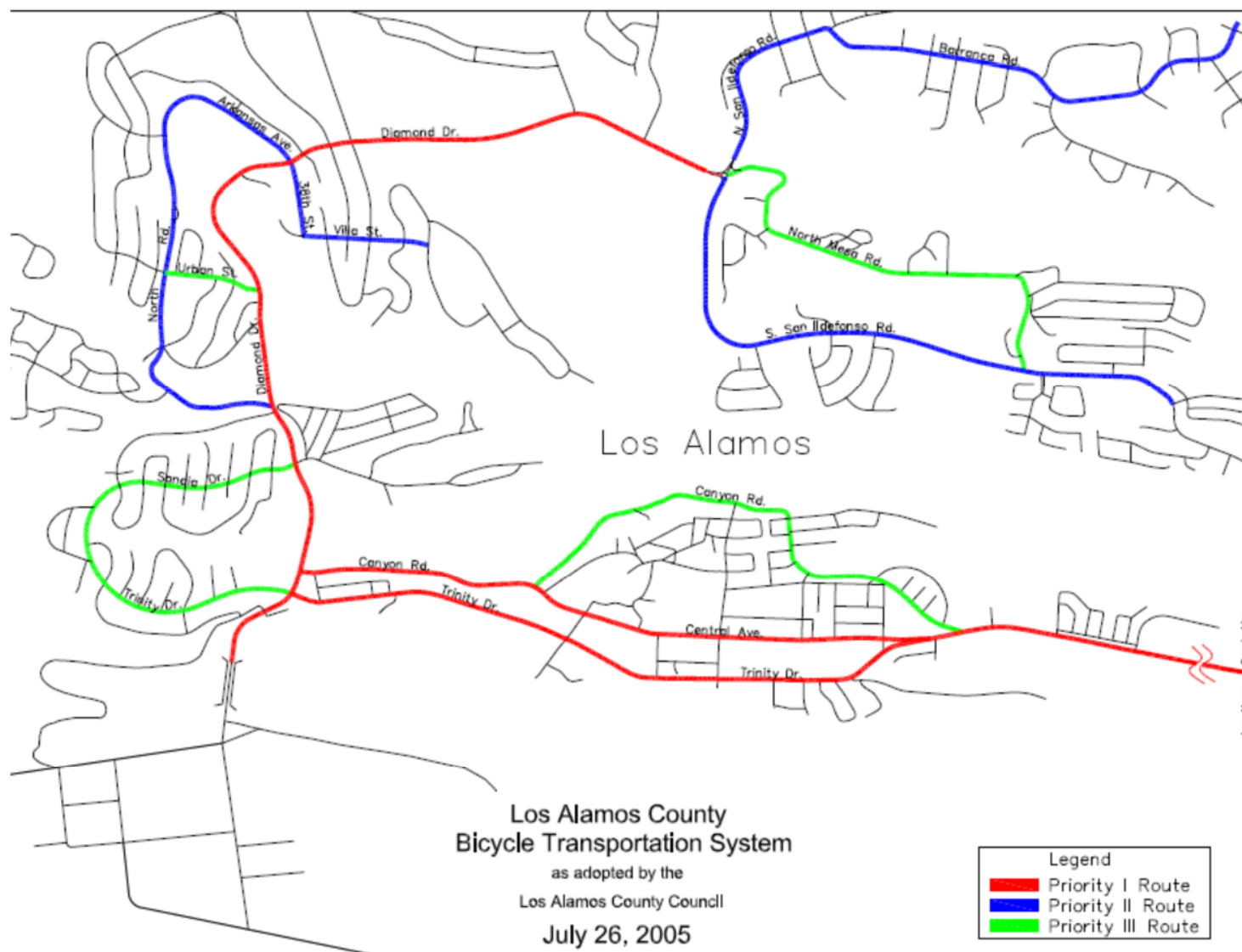
A second survey "[County-Wide Bike Survey Findings](#)" was commissioned by the County, sent by county mailing, and tabulated by the Bicycle Subcommittee. Drawing

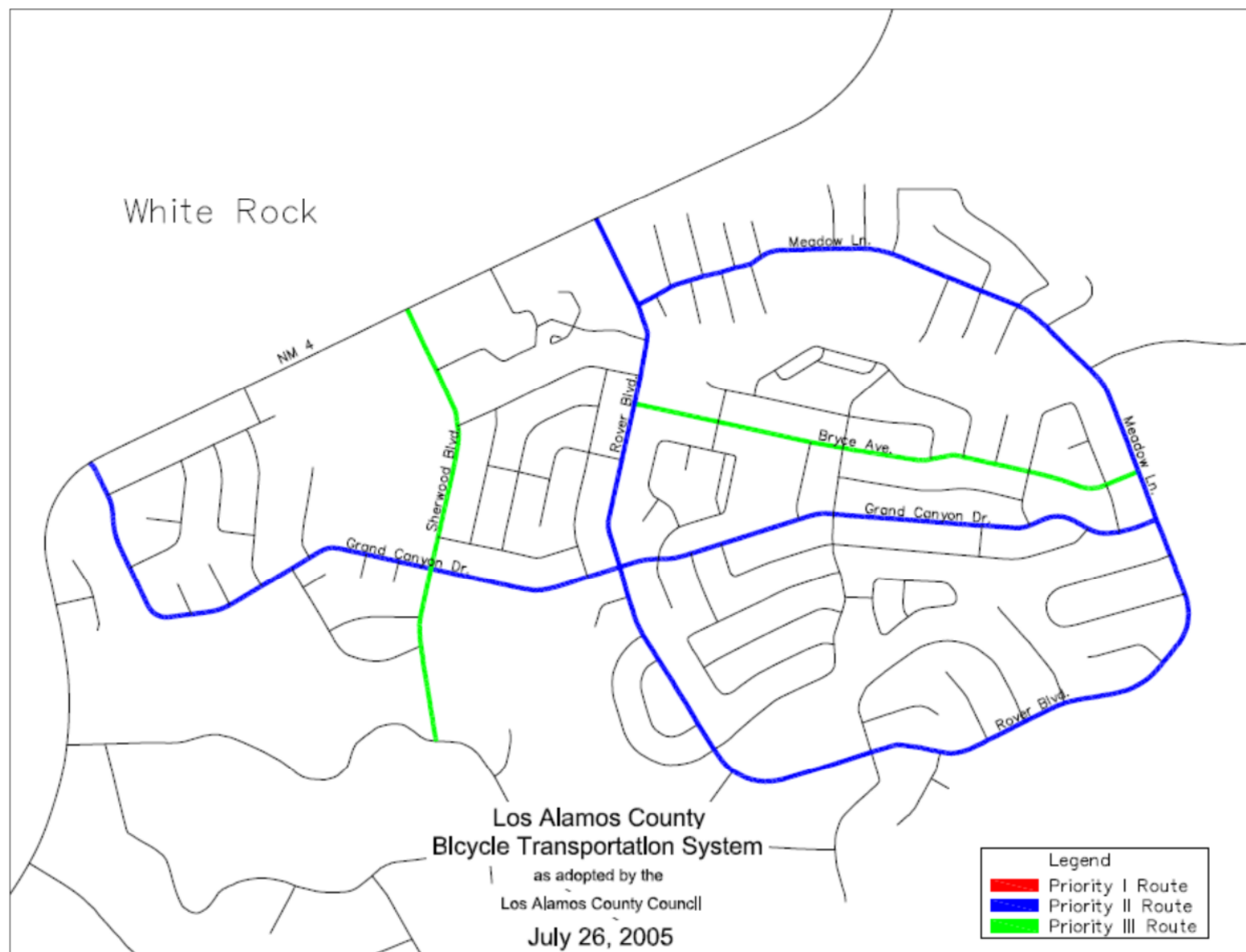
from 1000 questionnaire responses from households representing all age and neighborhood groups, the Bike Survey found that there is a strong desire for safe and favorable bicycle and pedestrian infrastructure throughout Los Alamos County. Over two-thirds of the respondents favor some combination of on-road and off-road bicycling improvements. Safety concerns were by far the greatest response noted by both recreational and commuter bikers with Diamond Drive, Trinity Drive, and Pajarito Road being cited as particularly dangerous routes.

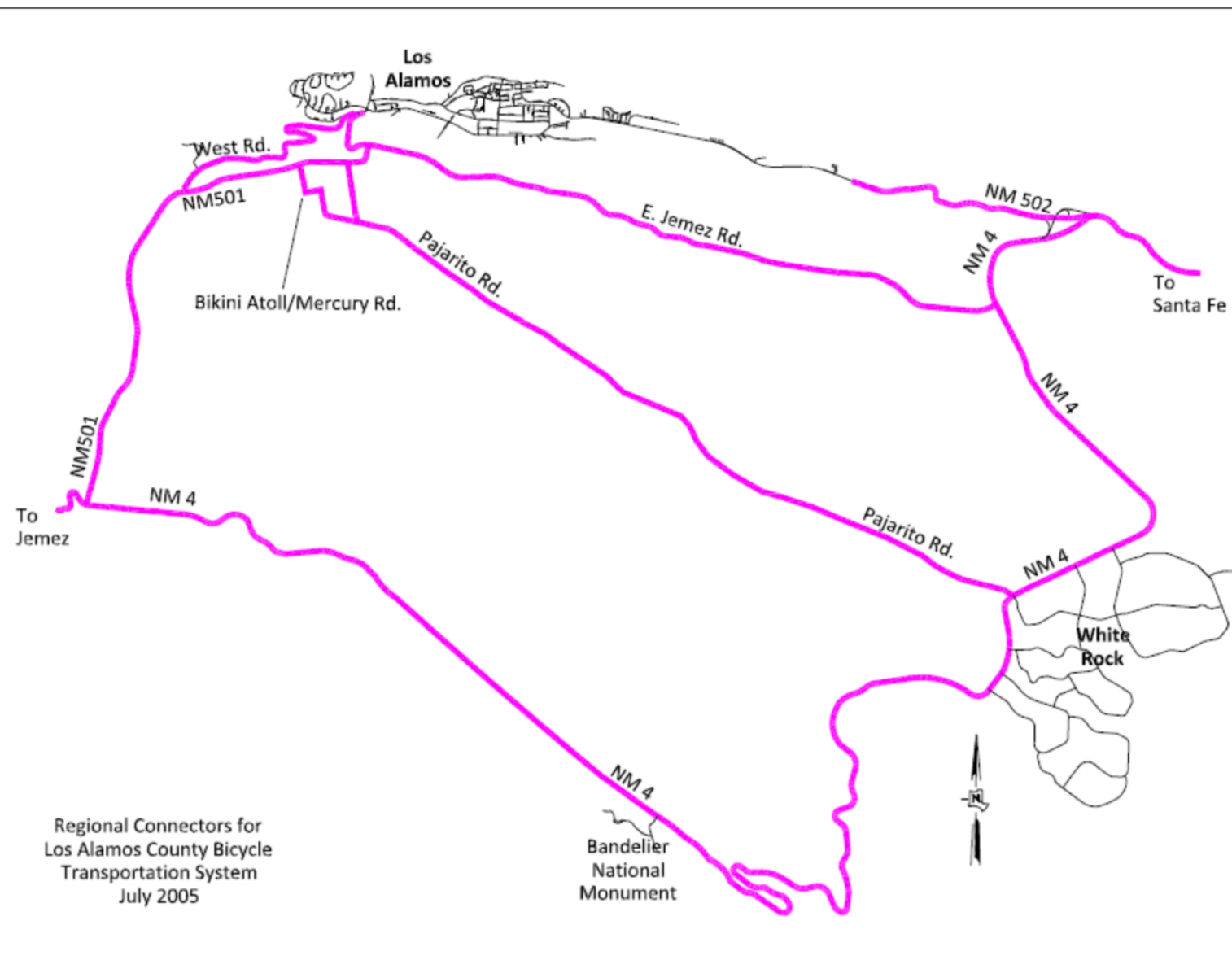
Drawing on these polls, numerous public meetings and internal deliberations regarding the best match of Los Alamos' infrastructure with our desire to provide safe and efficient *bicycling as transportation*, the Bicycle Subcommittee submitted its recommendations, unanimously, to the full Transportation Board for consideration at its April 2005 meeting. The above motion is the Transportation Board's motion regarding bicycle routings. Our mission is simple: that our transportation system should connect cyclists from their homes to their destinations (schools, downtown, place of employment) in a bicycling friendly manner. Therefore, these routes were chosen to connect residential communities to destinations. Particular attention was taken to improving collectors and arterials (and to the extent possible, encourage regional connectivity on State and LANL routes) since these often have high traffic flows and sometimes lack shoulders or bike lanes. Equally important, we focused on roads surrounding our schools (approximately within a one mile radius for non-bused children) in order to address "Safe Routes to School" concerns.

A more comprehensive vision statement ([Creating a Bike and Walk Friendly Los Alamos](http://www.labikes.org/bsc/labikeplan.asp)) from the Bicycling Subcommittee can be found online at the following location: <http://www.labikes.org/bsc/labikeplan.asp>.









INCORPORATED COUNTY OF LOS ALAMOS RESOLUTION NO. 10-32

**A RESOLUTION ON THE POLICY FOR THE DESIGN OF PUBLIC
STREETS AND RIGHTS-OF-WAY IN LOS ALAMOS COUNTY**

WHEREAS, the Los Alamos County Council has established six (6) main Strategic Goals, three (3) of which are "Enhance Environmental Quality and Sustainability", "Improve Transportation and Mobility", and "Diversify the Economy/Revitalize White Rock and Los Alamos Downtowns"; and

WHEREAS, the Council has established a series of Strategic Objectives to carry out these goals, including objectives to "Incorporate smart growth concepts", "Pursue community-wide independence from hydrocarbon energy sources", "Promote and expand regional transit organization", "Develop a Transportation Master Plan", and "Improve downtowns by attracting at least \$30 million of private investment and making available \$6 million of public funds"; and

WHEREAS, recent advances in the practice of traffic engineering and urban planning have developed new "best practices" for the design of streets that better accommodate the needs of private vehicles, transit riders, pedestrians, cyclists, and those with disabilities, while enhancing safety and convenience for all users; and


WHEREAS, a consistent policy on the development of streets and rights-of-way in the County that supports consideration of all modes of transportation during the design process will help to achieve Council's three aforementioned Strategic Goals.

NOW, THEREFORE, BE IT RESOLVED by the Council of the Incorporated County of Los Alamos that the "Policy for the Design of Streets and Rights-of-Way in Los Alamos County" (Attachment "A") shall be adopted as the official policy of the County.

PASSED AND ADOPTED this 9th day of November, 2010.



**COUNCIL OF THE INCORPORATED COUNTY
OF LOS ALAMOS, NEW MEXICO**



**Michael Wismer
Council Chair**

ATTEST:



**Janet Foster
Los Alamos County Clerk**

ATTACHMENT "A"

**Policy on the Design of Public Streets and Rights-of-Way
in Los Alamos County**

1. Purpose and Vision

The purpose of this policy is to ensure that in the process of designing new streets and rights-of-way or redesigning or reconstructing existing ones:

- 1.1. Street and right-of-way design and land use decisions are mutually reinforcing, to create effective synergy between streets and rights-of-way and land uses.
- 1.2. A comprehensive approach to street and right-of-way planning and design provides sufficient capacity and safe and comfortable travel for expected levels of motorists, bicyclists, pedestrians, transit riders, and operators of other evolving modes of transportation, such as low speed vehicles.
- 1.3. Street and right-of-way design provides transportation choices while promoting safety, health, economic vitality, environmental sustainability, and livability throughout the community.
- 1.4. Street and right-of-way designs incorporate published engineering and best planning practices.

2. Applicability

2.1. This policy along with other related plans, codes, and regulations shall apply to the design of all new and rebuilt streets, roads, sidewalks, and similar paved public rights-of-ways. The policy does not apply retroactively to streets and rights-of-way that otherwise are being resurfaced or repaired.

2.2. All potential streets, rights-of-way and intersection elements to be considered under this policy are subject to context and appropriateness of surrounding and future land uses. Certain constraints such as lack of right-of-way, or topography may prohibit the use or require refinement of design element options.

2.2.1. Aspects of this policy may be waived if cost of accommodation is excessively disproportionate to the need or probable use.

2.2.2. A well defined process for granting exceptions will be developed that includes review by senior level department heads in DPW and Community Planning with concurrence by their respective Boards and Commissions. This policy shall also be taken into account when considering future codes and regulations.

3. Implementation

3.1. This policy establishes the goals for street, right-of-way, and intersection design guidelines that will be part of the Comprehensive Transportation Plan for Los Alamos County.

3.1.1 Guidelines for cross-sections, speeds, functional and aesthetic design elements for new and reconstructed streets and rights-of-way, including the design components that create the desired character of various streets or street segments will be set appropriately considering the overall function of the street or right-of-way in the context of surrounding land uses.

3.1.2 Street and right-of-way design guidelines will include street and intersection design elements and their intended purpose, as well as outline the approach to evaluating the tradeoffs among competing users and uses of the street right-of-way.

3.1.2 Developers and designers shall document how elements of this policy were taken into consideration during design and provide justification for elements recommended by or appropriate to the project and its surrounding land uses but not included in the recommended design, subject to County review and acceptance.

3.2 The requirements for development review and approval currently required by code should be updated as needed to implement this policy.

3.2.1 The Los Alamos County Public Works Construction Standards and current design manuals will be revised and updated in a periodic manner consistent with the evolution of best practices. The Director of Public Works will be responsible for this process. Reference should be made to existing design guides, such as those issued by AASHTO, state design standards, and the Americans with Disabilities Act Accessibility Guidelines.

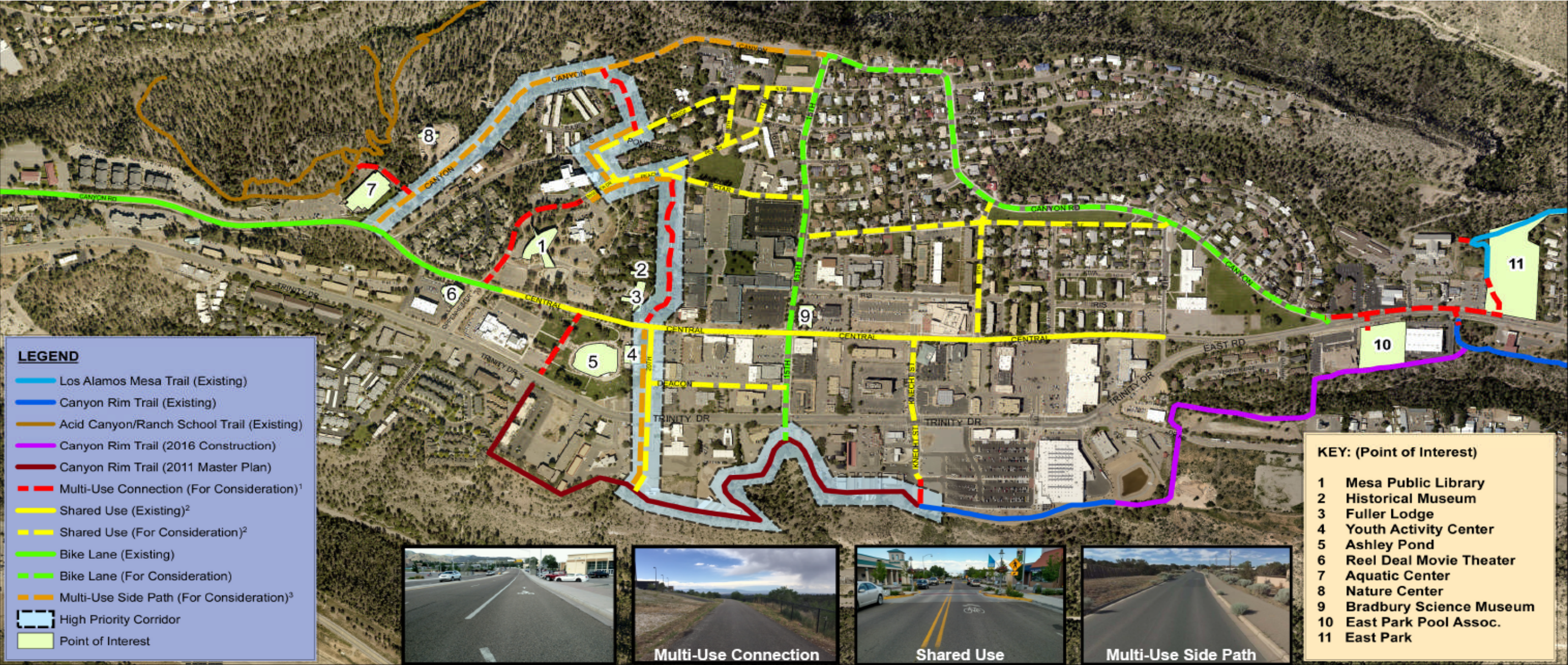
3.2.2 The County's Development Code should be updated as necessary.

3.3 This policy shall be incorporated into existing and future transportation related documents.

3.4 The public will be informed and involved during all stages of the planning and design process to ensure that the perspectives of all stakeholders are heard and seriously considered.

DRAFT

Exhibit C: Los Alamos Bicycle & Pedestrian Routes Map (Priority Corridor)



¹**Multi-Use Connection (Path)** – A bikeway physically separated from motor vehicle traffic by an open space within an independent right-of-way. Multi-use paths may be used by pedestrians, skaters, wheelchair users, joggers, and other non-motorized users. Most multi-use paths are designed for two-way travel.

²**Shared Use** – A lane of traveled way that is open to both bicycle and motor vehicle travel.

³**Multi-Use Sidepath** – A path located immediately adjacent and parallel to a roadway. Multi-use sidepaths may be used by pedestrians, skaters, wheelchair users, joggers, and other non-motorized users. Most multi-use side paths are designed for two-way travel.

Los Alamos Bicycle & Pedestrian Routes

N

Date: 8/10/2016

0 350 700
Feet

LOS ALAMOS

Exhibit D: White Rock Bicycle & Pedestrian Routes Map

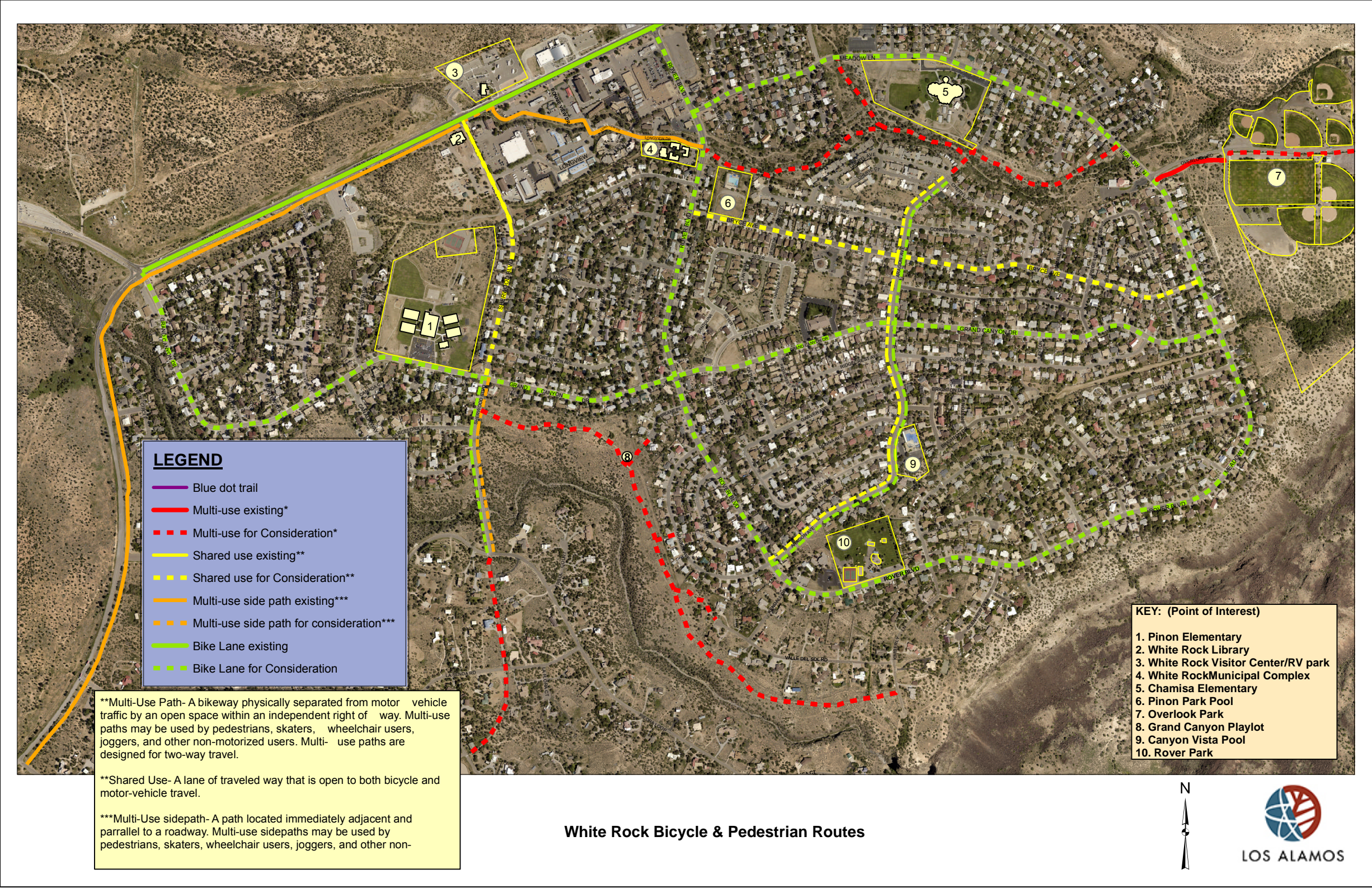


Exhibit E: Bandelier Plan: Multi-Use Trail

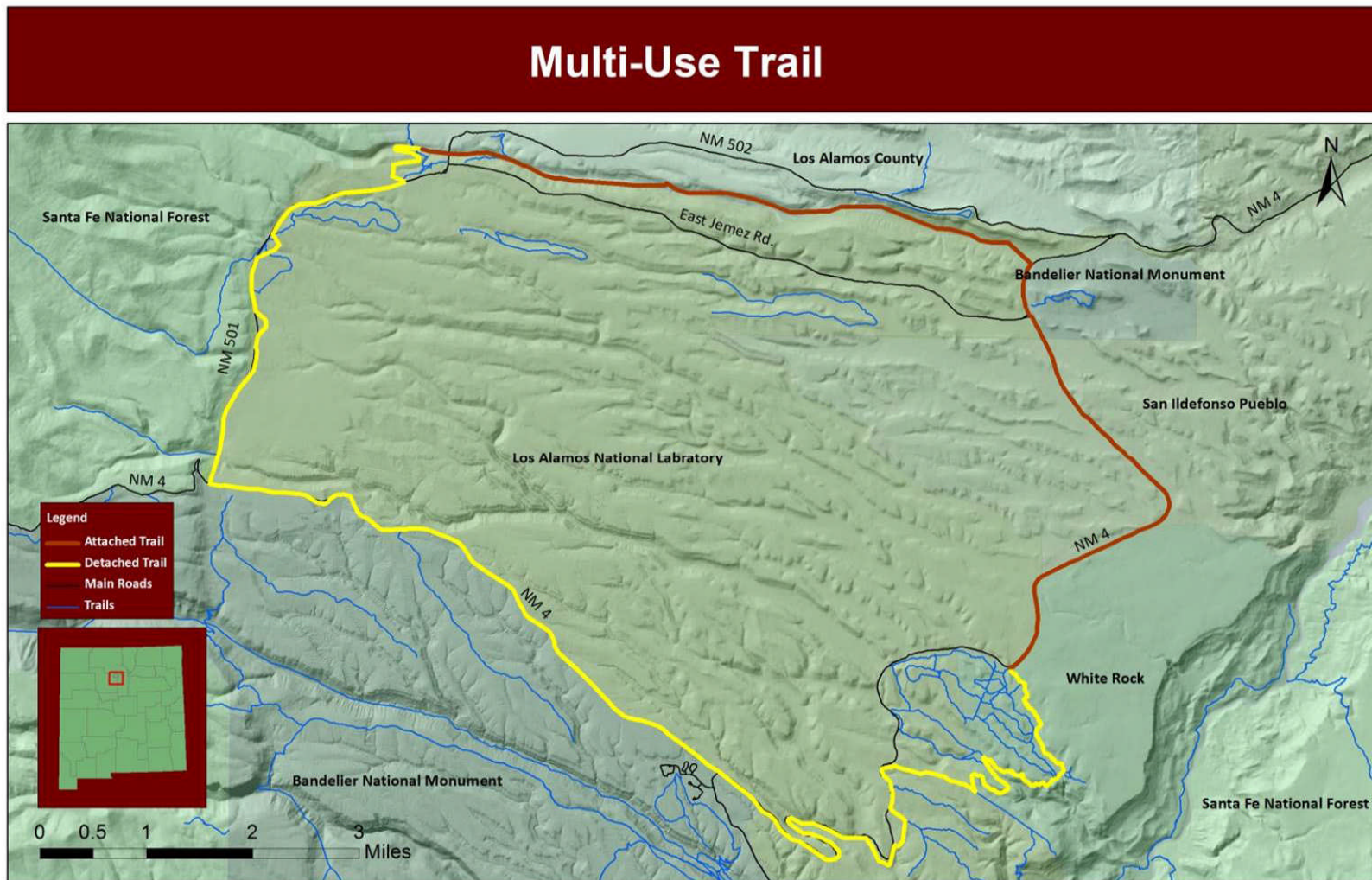


Exhibit F: Los Alamos County Trails Network

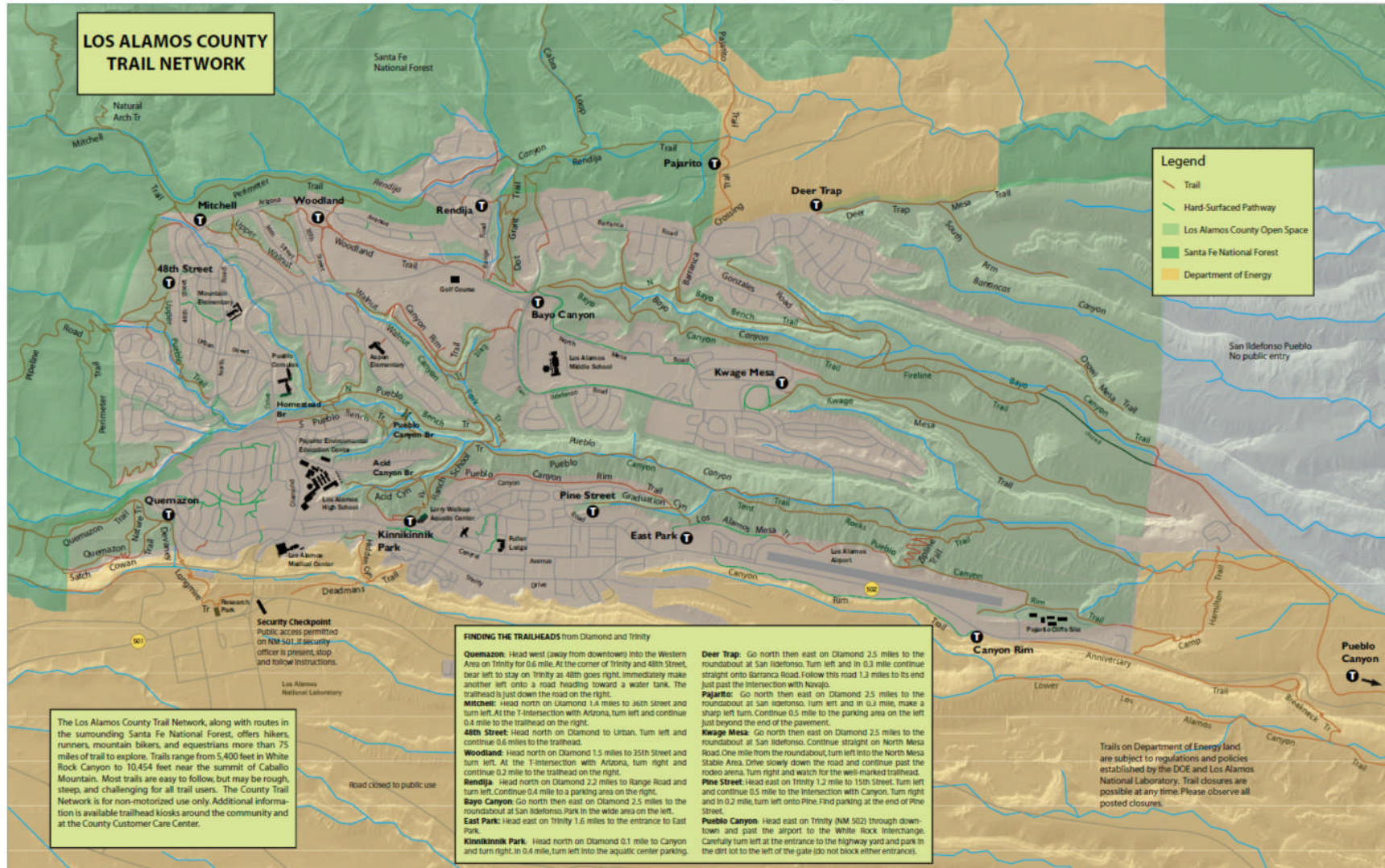


Exhibit G: Bike Month Proclamation



Exhibit H: Comprehensive Plan (Exhibit 38): Needed Trail Connections Map

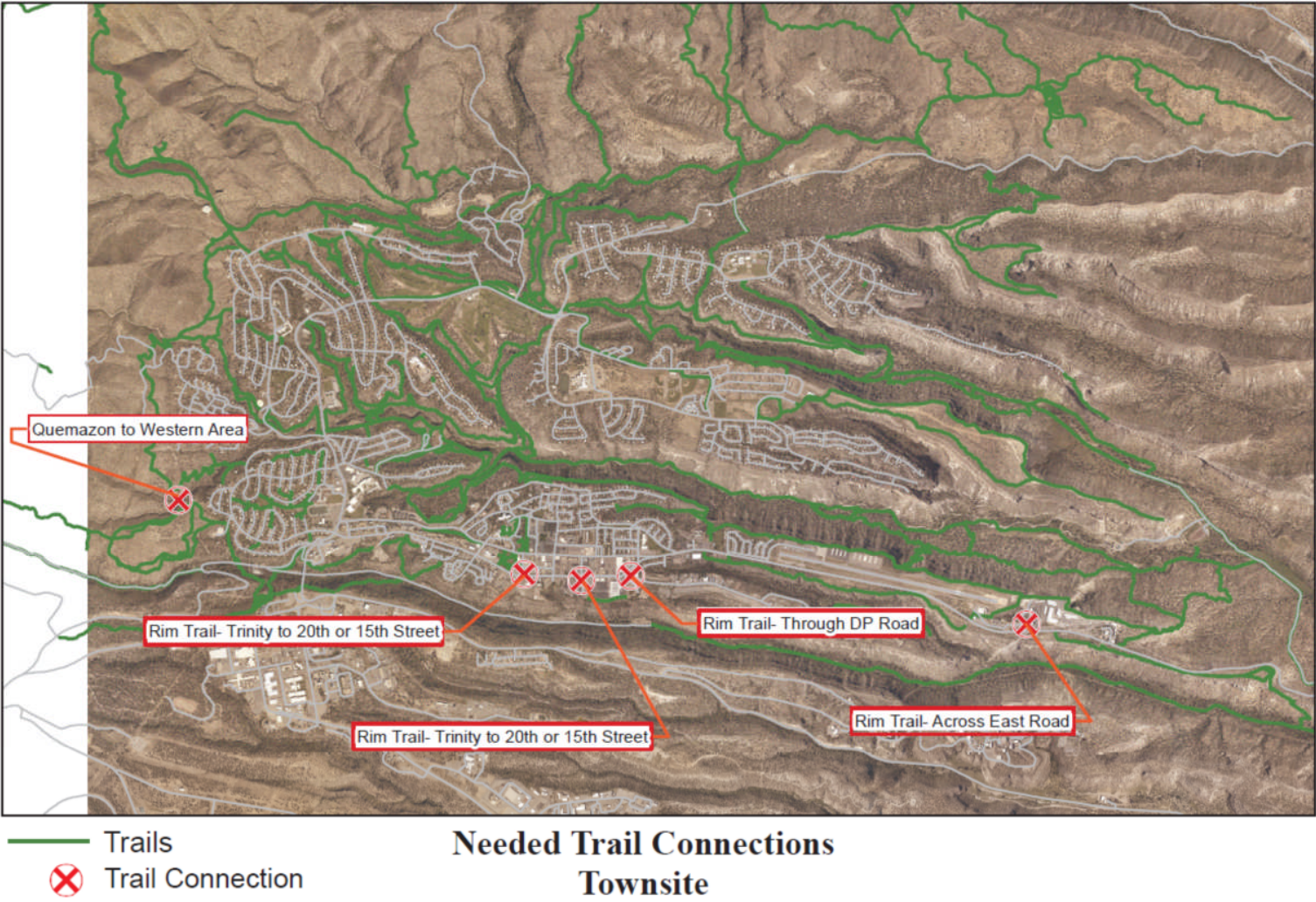


Exhibit I: Public Meeting List

- Planning & Zoning meeting – March 29, 2017
- Transportation Board Meeting – April 6, 2017
- Parks & Recreation Board Meeting – April 13, 2017
- White Rock Public Meeting – April 27, 2017
- Transportation Board Meeting – June 1, 2017
- County Council Work Session – June 13, 2017
- County Council – June 27, 2017

Exhibit J: Open Forum Survey Questions and Results

Bicycle Transportation Plan Survey

Open Forum April 13 – May 8, 2017

The following are the questions as asked on the online survey and number/percentages of responses. For questions asking for more than one answer a number of responses is given.

1. If you or anyone in your household ride a bicycle, for what purpose?

a. For transportation	2.2%
b. For recreation or exercise	35.1%
c. All the above	62.7%
2. How often do you use a bicycle?

a. Daily	28.0%
b. Weekly	43.2%
c. Monthly	13.1%
d. Rarely	15.7%
3. If you rarely ride a bicycle, why?

a. Not convenient	12
b. Don't feel safe biking	59
c. Time constraints	27
d. No direct route to take	27
e. Other	25
4. How far on an average daily roundtrip do you travel on your bicycle?

a. ¼ mile	2.7%
b. ½ mile	2.7%

- | | | |
|----|------------------|-------|
| c. | 1 mile | 3.6% |
| d. | More than 1 mile | 91.0% |
5. Do you utilize the transit system and bicycling in combination to travel?
- | | | |
|----|-----|-------|
| a. | Yes | 17.9% |
| b. | No | 82.1% |
6. What is your most common bicycle route?
- Diamond Drive -- 35
- Northern neighborhoods to Downtown or LANL -- 31
- Recreational Trails -- 28
- White Rock -- 26
- Bandelier Loop -- 21
- Downtown -- 20
- Canyon Rim Trail -- 16
- LANL -- 15
- Canyon Road -- 14
- NM 4 -- 12
- LANL (Back Gate) -- 11
- Trinity Drive -- 8
7. Please rank the changes, if any, would you like to see your local government make in your community for bicyclists to encourage more bicycle use?

1. Improve existing paths, roads, sidewalks
 2. More on-street bicycle lanes
 3. More multi-use paths
 4. Increase bicycle education
 5. Increase safety police presence
 6. Don't allow bikes on sidewalks
8. Is it safe or dangerous to ride a bicycle in your community or does it depend?
- | | |
|--------------|-------|
| a. Safe | 18.6% |
| b. Dangerous | 14.3% |
| c. Depends | 67.1% |
9. If you answered dangerous or it depends on the previous question, why do you feel it is dangerous to ride a bicycle in your community? What are your top three concerns?
- | | |
|--|-----|
| a. Traffic/Congestion | 56 |
| b. Fast Moving Traffic | 91 |
| c. Distracted Drivers/Riders | 121 |
| d. Few bike lanes or bike paths | 101 |
| e. Drivers/riders don't obey traffic laws | 55 |
| f. Lack of enforcement | 8 |
| g. Streets not clean or clear of debris | 41 |
| h. Not sure how to move safely from starting point to destination (lack of available bicycle transportation network map) | 26 |
10. What changes in the system or environment would increase your cycling habits? Choose all that apply.
- | | |
|--|-----|
| a. More bicycling facilities (Bike lanes, paths, etc.) | 189 |
| b. Mapped routes available | 51 |
| c. Safer on street routes | 131 |
| d. More enforcement | 26 |
| e. Bicycle safety education | 29 |
| f. Bicycle parking facilities available | 59 |
| g. Other | 48 |
11. What specific improvements, facilities or routes would you like to see to improve the bicycling experience in Los Alamos County?
- 161 respondents answered this question, below is a tally of improvements, facilities or routes they find would improve the bicycling experience in Los Alamos:

1. Bicycle route on NM4/linking White Rock with Los Alamos – 50
2. More Multi-use trails in general – 25
3. Signal Timing/Enforcement/signing & markings – 21
4. Road maintenance (clean bike lanes/maintenance of existing facilities) – 19
5. Bike Facilities on LANL property (including crossing Omega bridge and access of Pajarito Road) -- 15
6. Bicycle Route on Trinity Drive – 12
7. Extension of Canyon Rim Trail from Coop to Medical Center -- 12
8. More bike lanes – 10
9. Bike lanes or off-street path through downtown and on Central Avenue – 9
10. Multi-Use Trail to Bandelier – 8
11. More bicycle facilities (integrates network throughout the County) – 7
12. Bicycle Facilities from neighborhoods further away from town (more direct routes, spanning canyons) – 6
13. Separation of bike lanes from vehicle lanes – 6
14. Bicycle Education – 4
15. Transit connections/bike rack use on all buses – 3
16. Bicycle Parking – 3
17. Bicycle Lanes on Canyon – 2
18. Bike Rentals – 1
19. Add bike lanes to 15th Street -- 1
20. Mapping – 3
21. Safe Routes to schools – 3
22. Traffic Calming – 2

23. Crossings of Trinity Drive – 1

12. What is your age group?

a. Under 18	0.4%
b. 19-25	2.1%
c. 26-40	25.4%
d. 41-60	44.5%
e. 61-70	17.8%
f. 70 or over	9.7%

References

Supporting & Related County Reference Documents

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County of Los Alamos

Staff Report

June 01, 2017

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:

Index (Council Goals):

Presenters:

Legislative File: 9476-17

...Title

Public Works Staff/Project Update - May 2017

...Attachments

A - Public Works Update - May 2017

In the Works....

Public Works Update – May 2017

Administration Division

2017 Bond Projects

Voters Reject Recreation Bond By 486 Votes



The ballot question failed by 486 votes. There were 3,446 ballots for the bond and 3,932 ballots against it. A total of 7,383 ballots were returned to the County Clerk's Office of the more than 13,000 registered voters. Council Chambers was crowded this evening as adults and children awaited the results. The room emptied, mostly in silence, after County Clerk Naomi Maestas made the announcement.

Congratulations to the Graduates!



Jon Bulthuis, Alipio Mondragon, James Barela and Pete Mondragon proudly display their hard-earned Los Alamos County Leadership Academy certificates. The graduation was held on May 18, 2017.



Congratulations, we are very proud of you!

Employee Recognition Picnic



BEST SALSA CONTEST

Salsa contest, gunny sack races, watermelon and pie eating contests, are just a few activities employees participated in at the Public Works Department Annual Employee Recognition Picnic held on May 17, 2017.

1st Place – Derrick Voight
2nd Place – Robert Woodall
3rd Place – Paul Sena



Transportation Board

The Transportation Board meets the first Thursday of the month at 5:30 p.m. Meetings are held at 1000 Central Avenue, Room #110. The Transportation Board is working to fill one vacancy.

Airport Division

State Aviation Conference

David Ploeger was named Airport Manager of the Year.



At the 2017 Annual Meeting of the New Mexico Airport Managers Association (NMAMA) held in Ruidoso, May 10 -12, Los Alamos Manager, David Ploeger, was named New Mexico Airport Manager of the Year. This award goes to the airport manager that does an outstanding job in managing the airport and advancing aviation safety at his/her airport. Criteria includes administrative expertise, maintaining a safe and efficient airport, general upkeep of airport, staff and management interface (internal and external), and involvement in the local airport community.

The New Mexico Airport Managers Association Awards were first given out in 2000 at the Airport Managers Association Annual Conference and Trade Show. Prior to the conference, the NMDOT – Aviation Division and a member of the New Mexico Airport Managers Association discussed the nominees and winners in each category.

Nominees this year were Jim Talbert, Alamogordo White Sands Regional Airport, Mike Lewis, Farmington Four Corners Regional Airport, and David Ploeger, Los Alamos Airport.

Please join us in congratulating David Ploeger as 2017 Airport Manager of the year.

Fence Project

Delta Airport Consultants has begun the design of the fence project and it is expected that the design will be completed later this summer. The FAA grant has been delayed due to the funding constraints placed on the FAA by the continuing resolution under which they had been funded. Congress has now passed another continuing resolution that funds the FAA through the end of FY 2017. The FAA has stated that we can expect to receive the grant later this fiscal year. Construction of the fence is presently scheduled to be funded by the FAA and State in FY 2018.

New Hangars

The hangar manufacturer submitted a set of plans for the hangar which have been approved by the County building inspectors. The manufacturer has been informed of the approval and can now begin to fabricate the building. They have stated this process will take approximately 14 weeks to complete. The building materials should be delivered on site in either late August or early September. We expect the construction of the building to take approximately 30 days.

Custodial Division

The Custodial Division supported 238 events during the month of May.

The Division will begin transitioning over to a “Green” cleaning program beginning in June.

New tables were purchased for Fuller Lodge events and additional chairs were purchased for Council Chambers to accommodate overflow attendance.

Engineering & Project Management Division

Fire Station 3

Architectural design work is nearing completion and includes a more substantial reroofing, as well as a new wall system, window replacement and HVAC system modifications to better insulate and control the temperature in the bunkrooms. It was stated last month that the project has been postponed until Fiscal Year 2020 due to funding reductions. However, staff has worked through the project list and re-prioritized tasks so the project is now scheduled to be completed in FY2018. The plan is to have design work completed in May so that the project can advertised and be awarded in late July or early August.

Fire Station 4

The Fire Station 4 HVAC replacement project consists of replacing the rooftop units with combination heating and AC units, replacing the existing boiler with a more efficient unit, removing floor tile and abating some asbestos mastic (glue). This project was awarded at the May 2nd County Council meeting to CAC, Inc. with a Notice to Proceed date of June 5. It is anticipated that construction will extend into October.

A second project at Fire Station 4, the shower replacement project is currently in progress, by contractor Allied 360. Crews have one shower unit 60% complete. In addition, new counter tops will also be installed in the shower areas. This work is anticipated to be completed in June.

Mesa Library HVAC Improvements

The current system is an evaporative cooling system, while a less expensive system to install and operate, it does not provide adequate cooling during times of high (30% plus) humidity. The system itself is limited in its cooling capacity due to its original design. The design consultant evaluated several system options which included an initial and life-cycle cost analysis. This evaluation resulted in a system selection to proceed to the design phase.

This project has been postponed until Fiscal Year 2019. While this sounds like a 2-year postponement, it's about a 15-month delay as the plan is to advertise in March/April 2018 and award the 1st Council meeting in July 2018 (Fiscal Year 2019).

In the meantime, the Fire Alarm panel which was part of the project is being advertised in March/April 2017 as it was badly damaged in a power surge and needs to be replaced now as a Life-safety issue. The cost for this is estimated at \$150k.

Youth Activity Center Remodel



Interior improvements have been completed at the Youth Activity Center. The project was completed at the end of April with the Youth Activity Center moving in on May 1. A re-opening celebration is being planned, date to be determined.



North Mesa Improvements Project Phase 1



Construction began on May 1 with an anticipated completion date of August 10, 2017.

The Project consist of roadway improvements, which includes asphalt, paving, curb, gutter, sidewalks, ADA curb ramps, drive pads and drainage structures on Camino Uva (from San Ildefonso to the cul-de-sac) and Camino Durasnilla (from San Ildefonso to Camino Uva).



The Contractor is currently working on Camino Uva from the Cul-de-sac to Camino Cereza with curb & gutter, drive pads, sidewalk, and ADA curb ramps. The Contractor is scheduled to complete Camino Uva by July 1, the first milestone date.

20th Street Extension Project

The project was advertised April 9, with a non-mandatory pre-bid meeting held on April 18. The bid opening was held for May 3, with award at the June 6, County Council Meeting. Construction is

scheduled to begin in July with an anticipated completion of October 2017. The project will consist of roadway and utility improvements, which includes asphalt paving, curb, gutter, sidewalks, ADA curb ramps, drive pads and drainage structures. The utility improvements include gas, water, sanitary sewer and electrical distribution system improvements supplemental to the development of the 20th Street Extension corridor infrastructure.

Canyon Rim Trail Phase 3

The County's consultant has begun work for easement acquisition and preliminary design services for the portion of trail between Knecht Street and 20th Street. A kickoff meeting was held on May 9 and survey work was started on May 18. The survey work was conducted using a drone, permission was granted by the FAA in conjunction with NNSA and LANL security. Further topographic land survey will be conducted at the site and drainage design work for potential alignments is underway.

Canyon Rim Trail Underpass

In November 2016, an application was submitted to the NMDOT by way of the Regional Transportation Planning Organization for Transportation Arterial Program (TAP) funding for an underpass of the Canyon Rim Trail at the trailhead near Camino Entrada. On April 26, the NMDOT planning staff informed County staff that a decision was made to award Los Alamos County our entire request in the amount of \$2,340,000 (including the 14.56% local match). The funding is for federal fiscal year 2018 design funds and 2020 construction funds.

Bicycle Transportation Plan



The Bicycle Transportation Plan Subcommittee has been meeting on a biweekly basis and continues to provide feedback as the Bicycle Transportation Plan takes shape. The subcommittee has suggested, as a public process, that presentations of the plan be made to the Planning & Zoning Commission, Parks & Recreation Board and the Transportation Board, these presentations have been given with positive feedback at each presentation. An electronic survey is currently on the County Open Forum web page to solicit feedback on the county's bicycling

habits, this survey will close on May 8th. Public Works staff will present the plan to the Transportation Board at their June meeting for recommendation to County Council for approval. If recommendation is made, the subcommittee and staff intend to schedule the Plan for the County Council Work Session on June 13th and then the June 27th County Council meeting for approval.

Bike to Work Day

The community ride planned for Friday, May 19 was cancelled due to inclement weather and will be re-scheduled in the near future.

Future Projects...

- NM 4/East Jemez Rd. (Truck Route) Intersection: Staff continues to work with DOE, NMDOT, and Army Corps of Engineers to program, design and construct intersection upgrades to improve capacity and safety.
- NM 502 Reconstruction, Knecht St. to Tewa Loop: Staff continues to coordinate with NMDOT on this state lead project scheduled to begin this summer. NMDOT held a project bid letting on April 28, 2017, only one bid was submitted and unfortunately the bid was \$4 million over budget.

Environmental Services Division



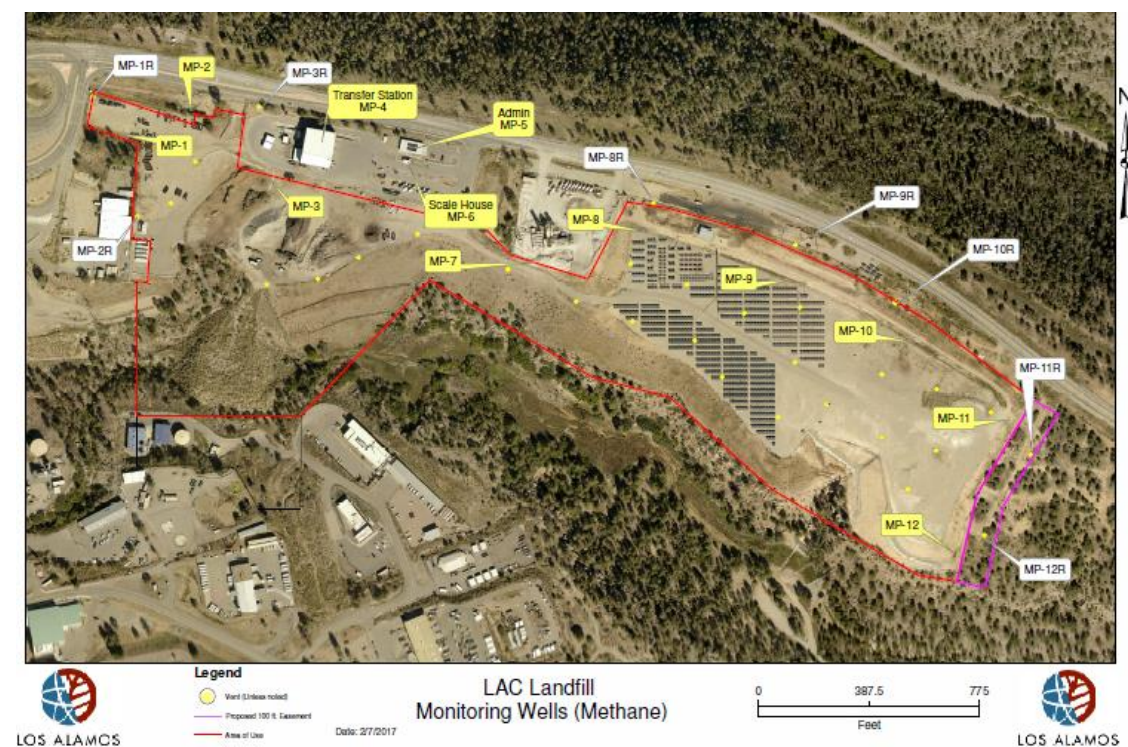
2017 Spring Quarterly Brush Collection Schedule

The Los Alamos County Council unanimously approved changes to the Brush Collection Program, which has resulted in brush being collected separately from bulk items. As part of the 2017 spring quarterly brush collection, Environmental Services has collected approximately 37.85 tons of brush.

Los Alamos County Landfill

Gas Update

This is a summary of results for April 2017 methane monitoring for the Los Alamos County closed landfill.



1. The LFG vents ranged in methane concentration from 38.2 (LFG Vent – 7) to 60.8 (LFG Vent – 2) percent gas in air.
2. The gas probe readings for the methane probes ranged in methane concentration from 1.0 (MP-12) to 38.7 (MP-8) percent gas in air.
3. The gas probe readings for the MP probes located at the landfill boundary ranged in methane concentration from 0.0 (MP-8R and MP-9R) to 7.8 (MP-10R) percent gas in air. In addition to MP-11R, MP-10R also exceeded the LEL.

4th Annual Clean Up Los Alamos Day



Environmental Services would like to thank all the volunteers who participated in the 14th annual Clean Up Los Alamos Day on Saturday May 13th. It was a great success again this year with 339 participants collecting trash and brush around the Los Alamos and White Rock area. The county collected approximately 10.5 tons of solid waste and 156 residents utilized the Eco Station and Overlook Convenience Center Saturday for free disposal. The event wrapped up with an appreciation luncheon hosted at Ashley Pond, with hamburgers and hot dogs provided by David's Dogs. Environmental Services staff would like to

thank LANB, Coca-Cola, and Los Alamos County who sponsored the event.

Facilities Division

Mesa Public Library – access control has been completed.

Fire Station 4 – Move access control and camera panels out of day room into bay area, install electrical for stove in annex building, and install temporary sink in annex building.

Municipal Building – painting the perforated metal throughout building.

White Rock Complex – fence along south side of complex has been repaired.

Fleet Division

A new unit has arrived for the Police Department.



CDL Exams

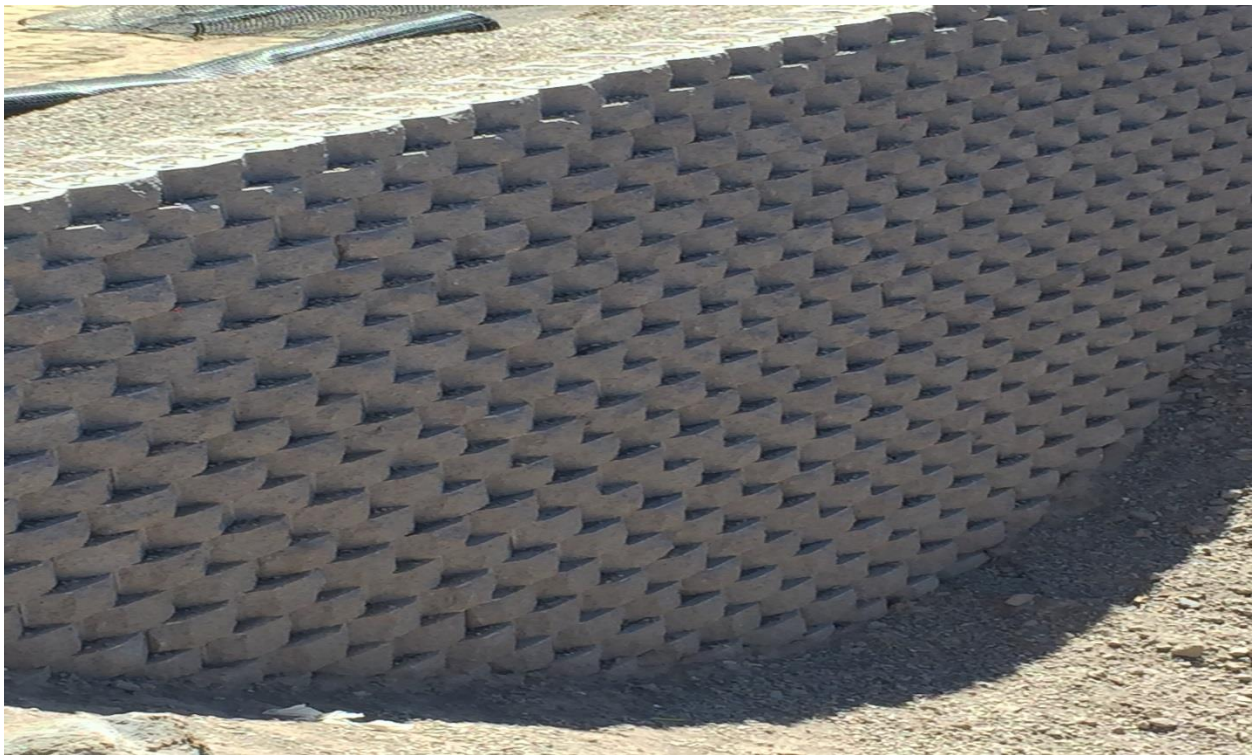
During the month of May Chris Sena provided CDL testing for four employees from Transit who completed and passed their Class B, P rating to operate transit buses and four employees from the Department of Public Utilities who passed their Class A rating.

Mechanic at Work



Raul Lujan, Fleet Mechanic II repairs a drive shaft.

Traffic & Streets Division



Enviroworks, LLC is the vendor who was awarded the Landfill Project that is partially funded by FEMA. Above are images of the Mechanically Stabilized Earth, MSE wall 95% complete.



Crew members were dispatched to respond to a traffic accident at the intersection of East Jemez (truck route) and NM 4 where a traffic signal warning beacon was knocked down. LAPD was unable to reach NMDOT dispatch to respond to the incident.

During the month of May, the Streets Division lost another employee who moved on to the private sector. Robert Lopez left at the end of April. This makes 2 Streets crew members that have moved on (Mario Herrera who retired in March). They were both Senior Equipment Operators. Since they left, we have promoted two drivers within the Streets Division to a Senior Equipment Operator positions, Matthew Salazar and Joseph Trujillo. Congratulations!



Matthew Salazar



Joseph Trujillo



Street crews are seen working on Nugget Street where they removed and replaced a section of sidewalk.

Transportation Safety Specialist, David Archuleta has retired after 18 years of service with the County. We will miss David and all the help he has given the County over the years. Congratulations David!



Joseph Blea will be replacing David Archuleta as the new Transportation Safety Specialist. Joseph started out as a temporary employee under Traffic and Streets as a Traffic Electrician I. Congratulations Joseph!



Traffic electricians assisted facilities by lifting a motor to the roof of the Judicial Center.



Traffic electricians installed lighting at the Airport.

The light pole was knocked down earlier this month by high winds.

Work Request – a resident called in to report a streetlight on Village Place that was blocked by a pine tree. She asked that the light be repositioned instead of trimming the tree. Crews were successful in repositioning the light.





Crews have been busy replacing signs throughout the county.

Transit Division

The Transit Division (Atomic City Transit - ACT) provided service to Leadership Los Alamos for their graduation ceremony on May 10, 2017. Congratulations Leadership Los Alamos Class of 2017!

Bandelier Shuttle Service



Bandelier Shuttle service began on Mother's Day, May 14, 2017 with thirty (30) minute service on the week days and fifteen (15) minute service on the weekends. The service will continue through October 15, 2017.

Bus Shelters



Summer time is coming soon and Jonathan Henley has been busy getting our bus shelters repaired and cleaned. New glass panels have been ordered and installed at Navajo & Los Pueblos in Barranca Mesa.

We will be continuing to identify bus shelters that need repair and assure the work is done as soon as possible.



Atomic City Transit and Avail Technologies have teamed up on the kick off meeting to bring Automatic Vehicle Annunciators (AVA) to the bus service. Annunciators will provide both visual and audio announcements of the next stop as well as general notices in the near future. Stay tuned for installation dates.