Pima Regional Trail System Master Plan

August 9, 2010

Pima Regional Trail System Master Plan

August 9, 2010

prepared for:

City of Tucson Parks and Recreation

and

Pima County Natural Resources,
Parks and Recreation

Saguaro, Tucson Mountain Park

Executive Summary

The Pima Regional Trail System Master Plan Update is a trail system plan based on respectful mutual accommodation—all users share all paths and trails unless there is a safety issue or technical limitation. Only motor vehicle users are not permitted on the trail system. The Update is a result of a planning process that included analysis of existing and potential trail routes, public meetings, Advisory Group input, city and county park commission presentations, and City Council and County Board of Supervisors presentations.

The goal of the Update is to expand the trail system both internally to the urban areas of the area's jurisdictions and to explore new opportunities in the outlying areas. To do this, the Plan builds on the efforts of the previous Master Plan, further exploring the urban context of downtown Tucson, identifying opportunities for trail facilities that might not meet the criteria for what is considered a standard trail, but nonetheless are important in making system connections.

The updated trail system consists of 853 miles of existing and proposed trails, paths, greenways, river parks, bicycle boulevards, and enhanced corridors that connect regional destinations, parks, schools, and preserve areas. In addition, there are 1,422 miles of singletrack level trails. New trail segments range from small segments that infill the trail system to close gaps to long segments that criss-cross the southern area of Tucson where development is just beginning. The trail system includes trails parks, trailheads, and boundary access points to increase user access to the system. Detailed design standards will guide the development of future improvements, ensuring that the trail facilities in Pima County are consistent so users can safely and confidently find their way through the system.

The Plan is organized in four main sections: **Background, System Features, Master Plan**, and **Implementation**.

Background: Covers the history of trails planning in Pima County, recent trends in trails planning and the benefits of trails, the planning process and what issues were identified by the public.

System Features: Describes the unique elements of the Pima Regional Trail System.

Master Plan: Reviews the vision and goals of the project, the main and supporting elements of the plan, facility standards, and descriptions of regional facilities.

Implementation: Includes a list of possible actions and recommended funding sources for building the facilities.

It should be noted that this is a living document. Growth and development will continually provide new opportunities and challenges for trail system improvements. Each project should be considered on a case-by-case basis and each project will need to be adjusted to the physical constraints of the site and adjacent properties. Projects are not deliberately prioritized. Each one is important to the overall system and should be constructed or improved when the opportunity arises.

Acknowledgements

City of Tucson Parks and Recreation Department

Glenn Hicks
Howard Dutt
Jane Duarte
Julie Parizek

Pima County Natural Resources, Parks and Recreation

Steve Anderson
Greg Hagen
Jennifer Psillas

Advisory Group

Bill Adamson, Green Valley Area
Linda Anderson-McKee, Urban Trails Coalition
Melissa Antol, City of Tucson Department of Transportation
Ann Audrey, City of Tucson, Office of Conservation and Sustainable Development
Tim Bolton, AZ State Land Department
Sue Clark, Pima Trails Association
Albert Elias, City of Tucson Urban Planning and Design Department
Nancy Ellis, Town of Oro Valley Parks and Recreation
Tom Ellis, Town of Marana
Tami Emmett, USFS, Coronado Forest
Dave Erchull, Tucson Mountain Riders
Mark Flint, Pima County Natural Resources, Parks and Recreation
Jim Glock, City of Tucson Department of Transportation
Joanne Hershenhorn, City of Tucson, Urban Planning and Design
Jan Johnson, Pima County Parks and Recreation Commission
Jim Jordan, Green Valley
Ainsley Legner, Town of Oro Valley Parks and Recreation
Joe Linville, City of Tucson Development Services
Joan Lionetti, Tucson Clean and Beautiful/Trees for Tucson
Bob Love, NPS, Saguaro National Park
Ronald Lumm, Southern Arizona Riders
Zach MacDonald, Sonoran Desert Mountain Bicyclists/Tucson-Pima County Bicycle Advisory Committee
Rick Mellegard, US Bureau of Reclamation
Francisco Mendoza, BLM/TFO
Louis Mindes, Tucson Mountain Riders
John Norris, Estanda
Irene Ogata, City of Tucson
Chris Poirier, Pima County Planning
Hank Rowe, Tucson-Pima Bicycle Advisory Committee
Richard Salaz, South Tucson Planning and Zoning Director
Bev Showalter, County Line Riders of Catalina
Debbie Summers, Town of Sahuarita
Jim Terlep, Southern Arizona Hiking Club
Tom Thivener, City of Tucson Department of Transportation
Gabe Thum, Pima Association of Governments
Ken Ventura, Town of Sahuarita
Edward Wachter, Tucson Inline Sk8 Club
Matt Zoll, Pima County Bike and Pedestrian Coordinator

Report Prepared By

HDR Engineering, Inc.

COFFMAN STUDIO, LLC

McGann and Associates

Table of Contents

Executive Summary v
Acknowledgements vii
Table of Contents ix
Acronyms and Glossary xiii
Background 1
A. Introduction 1
B. History of Trail Use and Trail Planning in Eastern Pima County 2
C. Purpose and Need 3
D. Trends 4
E. Benefits of Trails 7
Health and Exercise 9
Experiencing Nature 9
Reduction in Automobile Use 9
Quality of Life 10
Enhancing Natural Habitats 10
Natural Buffers 10
Preserving and Interpreting History 10
Increased Property Value 10
Promote Economic Development 11
Promote Tourism 11
F. Planning Process 11
Core Planning Team 11
Project Advisory Group 11
Project Focus Groups 12
Planning Group 12
Public Meetings and Coordination with Other Jurisdictions 12
Document Review 13
G. Major Issues Identified by the Public 14
Retrofitting the Tucson Central Core 14
"Trailsportation" 14
Consistent Trail Standards 15
Creating New Opportunities 15
Access 15
Accessibility 16
System Features 19
A. The Regional Trail System Features 19
Trails of National Significance 19
The Urban Loop 22
Trails in Natural Resource Areas 22
Dense Urban Fabric 29
Master Plan 33
A. Vision and Goals 33
Vision 33
Goals 33

B. Guiding Principles 34
Natural Resources 34
Cultural Resources 34
ADA Compliance and Opportunities for All Users 35
Sustainability and Green Infrastructure Integration 35
Consistent Trail Standards 36
Health and Fitness 36
"Trailsportation" Concept 36
Prudent Development 36
C. Trail System Elements 36
Main Elements 37
Supporting Elements 39
User Needs Accommodation 43
D. Standards 45
Trails 47
Singletrack Trails 51
Paths 55
River Parks 59
Greenways 61
Enhanced Bicycle/Pedestrian Corridors 65
Bicycle Boulevards 66
Trails Parks 67
Trailheads, Entry Nodes, and Boundary Access Points 68
Crossings 76
Signs 82
Pedestrian Districts 85
Pedestrian Activity Areas 86
E. Facilities 87
Trails 87
Paths 91
River Parks 97
Greenways 99
Enhanced Bicycle/Pedestrian Corridors 110
Bike Boulevards 113
Trails Parks 114
Trailheads, Entry Nodes, and Boundary Access Points 122
Singletrack Trails 143
Implementation and Funding 163
A. Action Plan 163
Strategies 163
Projects 165
B. Funding Options and Opportunities 166
Bond Funding 166
Developer Contributions 166
Regional Transportation Authority 166
Transportation Enhancements Grants 166
Starr Pass Environmental Enhancement Fee (EEF) 167
Regional Flood Control District Levy 167
U.S. Army Corps of Engineers 167
U.S. Bureau of Reclamation/Central Arizona Water Conservation District 167
Federal Agency Cost-Share Programs 168
Arizona Heritage Fund 168
Land and Water Conservation Fund (LWCF) 168
Demonstration Project Dollars 168
General Fund 168

Donations 168
Special District 169
Volunteer Opportunities 169

Appendices 171

A-1: Pedestrian Latent Demand Assessment 171
A-2: Maintenance Standards 173
A-3: City of Tucson List of Bicycle Boulevard Projects 177
A-4: Document Review 178
A-5: Pima County Projects List 193
A-6: Feature Numbers Cross Referenced to 1996 Plan 198

Acronyms and Glossary

AAA	American Automobile Association
ADA	Americans With Disabilities Act
ADOT	Arizona Department of Transportation
AFB	Air Force Base
AASHTO	American Association of State Highway and Transportation Officials
BAP	Boundary Access Point
BLM	Bureau of Land Management
BOR	Bureau of Reclamation
CAP	Central Arizona Project
CAWCD	Central Arizona Water Conservation District
EEF	Environmental Enhancement Fee
EPCTSMP	Eastern Pima County Trail System Master Plan 1989, 1996
EPNG	El Paso Natural Gas
FHWA	Federal Highway Administration
GIS	Geographic Information System
GPS	Global Positioning System
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Traffic Engineers
LWCF	Land and Water Conservation Fund
MAG	Maricopa Association of Governments
MUTCD	Manual on Uniform Traffic Control Devices
NCA	National Conservation Area
NRPR	Natural Resources, Parks and Recreation (a division of Pima County)
PAG	Pima Association of Governments
R&PP	Recreation and Public Purposes Act (a BLM acronym)
RCA	Resource Conservation Area
RFCD	Regional Flood Control District
ROW	Right-of-way
RTA	Regional Transportation Authority
SAFETEA	Safe, Accountable, Flexible and Efficient Transportation Equity Act
TE	Transportation Enhancement
TH[S], TH[L]	Trailhead Small, Trailhead Large
THE[S], THE[L]	Trailhead with Equestrian Facilities Small, Large
TMP	Tucson Mountain Park
UA	University of Arizona
USDA	United States Department of Agriculture

Abutment	Structure at either extreme end of a bridge that supports the superstructure (sill, stringers, trusses, or decks) composed of stone, concrete, brick, or timber.
Access	The opportunity to approach, enter, or make use of public lands.
Access Points	Designated areas and passageways that allow the public to reach a trail from adjacent streets or community facilities.
Accessible	A term used to describe a site, building, facility, or trail that complies with the Americans with Disabilities Act (ADA) Accessibility Guidelines and can be approached, entered, and used by people with disabilities.
Aesthetics	Relates to the pleasurable characteristics of a physical environment as perceived through the five senses of sight, sound, smell, taste, and touch.
Alignment	The layout of the trail in horizontal and vertical planes. The bends, curves, and ups and downs of the trail. The more the alignment varies, the more challenging the trail.
Amenity	Any element used to enhance the user's experience and comfort along a trail.
At-Grade Crossing	A trail crossing a roadway on the same elevation. Ideally, a safe at-grade crossing has either light automobile traffic or a traffic signal that can be activated by trail users.
Backcountry	An area where there are no maintained roads or permanent buildings, just primitive roads and trails.
Barricade	A portable or fixed barrier having object markings, used to close all or a portion of the trail right-of-way to traffic.
Bike Lane	A portion of a roadway that has been designated by striping, signing, and pavement markings for the preferential or exclusive use of bicyclists.
Bollard	A barrier post, usually 30 to 42 inches in height, used to block vehicular traffic at trail access points. Should be installed in odd numbers (one or three). Also an electric light post found alongside trails.
Clearing	Removal of windfall trees, uproots, leaning trees, loose limbs, wood chunks, etc. from both the vertical and horizontal trail corridor.
Connectivity	The ability to create functionally contiguous blocks of land or water through linkage of similar native landscapes; the linking of trails, greenways, and communities.
Crosswalk	Any portion of a roadway distinctly indicated for pedestrian crossing by lines or other markings on the surface.
Cultural Resource	The physical remains of human activity (such as artifacts, ruins, burial mounds, petroglyphs, etc.) having scientific, prehistoric, or social values.
Debris	Any undesirable material that encroaches on a trail and hinders the intended use.
Double Track	Double-track trails accommodate a four-wheel vehicle or side-by-side travel. Also see Single Track.
Drainage	The way in which water flows downhill and/or off the trail.
Drosscapes	Drosscapes are large tracts of land, often on the peripheries of cities and beyond. They include contaminated former industrial sites, mineral workings, garbage dumps, container stores, polluted river banks, sewage works, and expanses of tarmac used for airport parking lots and military compounds. The word was coined by Harvard University's department of landscape architecture.
Easement	Grants the right to use a specific portion of land for a specific purpose or purposes. Easements may be limited to a specific period of time or may be granted in perpetuity; or the termination of the easement may be predicated upon the occurrence of a specific event. An easement agreement survives transfer of land ownership and is generally binding upon future owners until it expires on its own terms.
Encroachment	Unauthorized use of trail or greenway right-of-way or easements as for signs, fences, buildings, etc.
Erosion	Natural processes (water, wind, ice, or other physical processes) by which soil particles are detached from the ground surface and moved downslope, principally by the actions of running water (gully, rill, or sheet erosion). The combination of water falling on the trail, running down the trail, and freezing and thawing, and the wear and tear from traffic create significant erosion problems on trails.
Equestrian	Pertains to horses, horsemen, horsemanship or the act of riding on horseback.

Grade	The vertical distance of ascent or descent of the trail expressed as a percentage of the horizontal distance, commonly measured as a ratio of rise to length or as a percent. For example, a trail that rises 8 vertical feet in 100 horizontal feet has an 8% grade. Grade is different than angle; angle is measured with a straight vertical as 90° and a straight horizontal as 0°. A grade of 100% would have an angle of 45°.
Graffiti	Any writing, printing, marks, signs, symbols, figures, designs, inscriptions, or other drawings that are scratched, scrawled, painted, drawn, or otherwise placed on any surface of a building, wall, fence, trail tread, or other structure on trails or greenways and which have the effect of defacing the property.
Habitat	A place that supports a plant or animal population because it supplies that organism's basic requirements of food, water, shelter, living space, and security.
Maintenance	Repair, improvements, or other work that is carried out on or near a trail to keep a trail in its originally constructed serviceable condition or to improve the safety and sustainability of the site. Usually limited to minor repair or improvements that do not significantly change the trail location, width, surface, or structures.
Open Space	Areas of natural quality, either publicly or privately owned, designated for protection of natural resources, nature-oriented outdoor recreation, or trail-related activities. In urban settings areas of land not covered by structures, driveways, or parking lots.
Park	Any area that is predominately open space with natural vegetation and landscaping used principally for active or passive recreation.
Pedestrian	Any person traveling by foot, or any mobility-impaired person using a wheelchair, whether manually operated or motorized.
Rail-Trail (Rail-to-Trail)	A multi-purpose, public path or trail (paved or natural) created along an inactive railroad corridor.
Shared-use	Shared-use paths are facilities designed for travel by a variety of nonmotorized users, including bicyclists, pedestrians, skaters, runners, and others.
Shoulder	The side or edge of the trail; the side or edge of a rock. The paved portion of a highway, which is contiguous to the travel lanes, allowing motor vehicle use in emergencies. They can also be for specialized use by pedestrians and bicyclists.
Sight Line (Sight Distance)	The visible and unobstructed forward and rear view seen by a trail user from a given point along the trail.
Single Track/ Singletrack	A narrow trail wide enough for one user or single file travel. Also see Double Track.
Slope	Rising or falling natural (or created) incline of the land, as shown on contour maps. Generally refers to the hillside (land) and not the trail, as trail "slope" is called the grade.
TOUCAN	The TwO GroUps CAN cross (TOUCAN) system was designed to provide a safe crossing for two groups - pedestrians and bicyclists. TOUCAN systems are placed at locations of heavy bicycle and pedestrian crossing activity and along roadways that are prioritized for non-motorized uses, sometimes known as "Bike Boulevards." An added benefit to the TOUCAN signal system is that motorized traffic is not allowed to proceed through these signals, decreasing the number of cars on neighborhood streets, and enhancing the neighborhood's quality of life. A TOUCAN can be activated only by bicyclists or by pedestrians. Both use a push button to activate the signal. Bicyclists respond to an innovative bicycle signal and use a special lane when crossing. Pedestrians get a standard WALK indication and have a separate, adjacent crosswalk. The system uses a standard signal for motorists. (www.dot.tucsonaz.gov)
Vandalism	Malicious destruction or defacement of someone else's property.
Vegetation	Plant life; growing plants.

Fantasy Island Trails Park

Background

In this chapter
The importance of trails in and around Pima County and their history

A. Introduction

The *Pima Regional Trail System Master Plan* is intended to serve as a blueprint for the development of a high quality, interconnected, multi-modal, regional trail system in eastern Pima County. The plan is an update of the 1989 and 1996 *Eastern Pima County Trail System Master Plans*.

The preparation of this plan was a collaborative effort involving local citizens, Pima County, the cities of Tucson and South Tucson, and the towns of Marana, Oro Valley, and Sahuarita. Also participating were representatives of federal and state land management agencies.

This Master Plan report includes:

- A vision for trails within the community
- The goals and specific principles for trail system development
- Trail system map
- Trail development standards
- Action Plan

The main elements of the proposed regional path and trail system are:

- Trails
- Singletrack Trails
- Paths
- River Parks
- Greenways
- Enhanced Bicycle/Pedestrian Corridors
- Bicycle Boulevards
- Trails Parks

The supporting elements are:

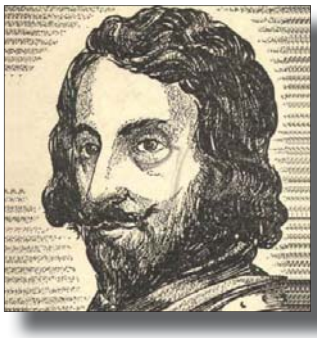
- Trailheads, Entry Nodes, and Boundary Access Points
- Crossings
- Signs
- Pedestrian Districts
- Pedestrian Activity Areas

Each of these elements and supporting elements are described in more detail in the Master Plan section of this report.

For the purposes of this document and a growing industry standard:
Paths = paved surface (concrete, asphalt, or similar)
Trails = unpaved surface (natural or improved granite type surface)

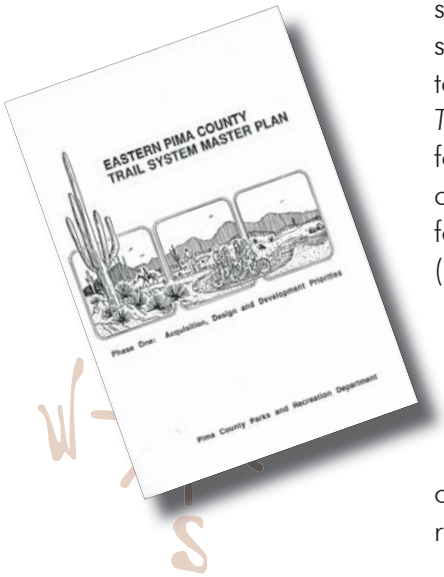
B. History of Trail Use and Trail Planning in Eastern Pima County

The Pima County area is blessed with a rich and diverse trails heritage that few communities can match. That heritage dates back thousands of years to the ancient peoples who originally settled and occupied this area. They created and used trails for transportation, spiritual purposes, exercise, recreation, and even dispute resolution, with the winner of a running contest prevailing in the dispute.



The Spanish exploration of the region also contributed significantly to the area's trails heritage. Beginning with Coronado's early exploration of this area in the 1540s, the Spanish made major contributions to the area and its trails. One significant figure was Juan Bautista de Anza, whose expedition, at the direction of the Viceroy of New Spain to establish the first overland route from Mexico into Alta California, resulted in the settlement of northern California and the creation of what is now the San Francisco Bay Area and the Presidio. Today, the Juan Bautista de Anza National Historic Trail commemorates the route of that historic expedition through Pima County.

Pima County's trails heritage continued with the modern settlement of the area in the 20th Century and the creation of large tracts of protected natural open space preserves, including the beginnings of the Coronado National Forest in 1908; establishment of the Tucson Mountain Park in 1928; and the Saguaro National Monument in 1933 and 1961 (later elevated to National Park status in 1994). Pima County's first formal recreational trails were located within these preserves.



Local trail advocates have been encouraging trail planning in Pima County since the late 1950s. The Southern Arizona Hiking Club, founded in 1958, signified a growing public interest in acquiring and protecting trail access to public lands. The 1970s saw the preparation of a *Trail Access Plan for Tucson*, which helped set the stage for more comprehensive projects to follow. Other groups, such as Pima Trails Association, founded in 1987, convinced the Pima County Board of Supervisors to provide funding for the creation of the *Eastern Pima County Trail System Master Plan* (EPCTSMP). This group recognized the Master Plan as a tool to help protect the community's recreational trails, which at that time were being lost to development at an alarming pace. The EPCTSMP was formally adopted in 1989, and updated in 1996. The EPCTSMP became the community's original model for the development of the interconnected regional trail system and the principal resource for the protection of trails, not to mention the model for the development of an excellent regional trail system.

The new *Pima Regional Trail System Master Plan Update* (this document) provides the most current update to the 1996 EPCTSMP and will guide decision makers and planners as they move to aggressively secure needed resources and monies to continue providing trail facilities for the community. This new Master Plan will provide the community with a truly regional trails plan that encompasses the entire Tucson metropolitan area made up of Pima County, the cities of Tucson and South Tucson, and the towns of Marana, Oro Valley, and Sahuarita.

C. Purpose and Need

Pima County has changed considerably since the adoption of the original Master Plan in 1989. The population of Pima County has increased from approximately 600,000 in 1989 to in excess of 1,000,000 at the beginning of 2008.

One plans not places, or spaces, or things...one plans experiences..
John Ormsbee Simonds
in *Landscape Architecture*

New public land acquisitions are ongoing, in large part as a result of Pima County's adoption of the *Sonoran Desert Conservation Plan*. This plan was initiated in 1998 and, in December 2001, Pima County incorporated the *Sonoran Desert Conservation Plan* into its comprehensive land use plan. The proposed conservation land system encompassed 77,000 acres in eastern Pima County in 2008.

The 1996 EPCTSMP does not adequately address integration of the Master Plan between local jurisdictions. The planning process implemented and described later in this Master Plan addresses this need, and includes participation by all jurisdictions within the planning area.

The trail standards included in the 1996 EPCTSMP are incomplete and inadequate, due largely to the changing demographics and the phenomenal growth Pima County is experiencing. Today, the number of people using trails is greater than ever, generating a need for more trail space within existing corridors. The new Master Plan includes complete, up-to-date trail standards designed to meet the growing population and a multitude of needs. Adoption of these standards by all local jurisdictions will provide consistent development and improved safety along the entire regional trail system.

A Good Trails Experience
Create a trail system that is more than just a way to get from one point to another; create a trail system that is a journey to enjoy

The 1989 and 1996 EPCTSMP included a comprehensive inventory of traditional, non-motorized trail corridors intended to serve hikers, equestrians, and mountain bikers, and was accompanied by a wide range of recommendations regarding how the corridors could be secured to facilitate the development of an interconnected non-motorized regional system. The plan did not include information regarding the design of individual trail corridors, the growing need for multi-modal trail opportunities, integration of the regional trail system into Tucson's central

core, or address a range of other matters presently considered important in the development of a regional trail system.

Some of these important matters include, first, that residents have identified a need to reduce automobile traffic thereby improving air quality and reducing global warming. Trails can help by providing opportunities for alternate modes of transportation within trail corridors. Second, trail development should be integrated with community conservation efforts. Lands acquired as part of the *Sonoran Desert Conservation Plan* provide significant opportunities to expand and improve the regional trail system while primarily conserving valuable habitat and protecting the community's special and unique character.

New forms of trails-based recreational demand are resulting in the development of trails parks located close to where people live. Residents have expressed interest in trails as a community feature that enhances their quality of life. They have demonstrated a willingness to pay for these features by approving bonding and other forms of funding (such as the Regional Transportation Authority (RTA) program, approved in May of 2006) to develop a regional trail system. A 1997 phone survey, conducted by AZ Opinion for the City of Tucson, also indicated residents' willingness to pay for outdoor green space that had community-wide benefits.

D. Trends

The popularity of trails has been increasing for a long time and it appears it will continue to grow. For example, just over twenty years ago, a few abandoned rail corridors had been converted to long-distance trails; today, nearly 14,000 miles of rails-to-trails conversions are in service around the United States.

In an effort to understand the changing trail needs, a study of trends in trail development was conducted as part of this report. Several cities were identified in the stakeholder kick-off meeting as possible "leading edge" trail planning communities to contact. They included Boulder, Colorado; the state of Colorado; the state of Florida; Scottsdale, Arizona; Austin, Texas; San Diego County, California; Davis, California; and Indianapolis, Indiana. Six of these jurisdictions were contacted and several of the trail planning trends implemented by these entities are provided below. A full report of the interviews is available from the City of Tucson Parks and Recreation Department.

Grade-separated Roadway Crossings

In Boulder, Colorado, grade-separated crossings are built as a matter of course rather than the exception. The Boulder Plan includes trail/bikeway

underpasses and overpasses as routine infrastructure improvements with 75 underpasses in-place, and an additional 95 grade-separated crossings planned. The City works with flood control and federal enhancement monies to fund their projects. Their trails are identified on their Comprehensive Trails Plan Map as well as their Web site. In addition to the City's Comprehensive Trails Plan Map, the city has also adopted a Greenways Master Plan that focuses on riparian corridors.

Application: Boulder's willingness to routinely provide grade-separated crossings for their trail and bikeway improvements is a goal the Pima Regional Trail System Master Plan will try to achieve to decrease the number of at-grade roadway crossings by non-motorized users.

GIS Data Bases

The state of Colorado is in the process of preparing a State Trails Master Plan which will include documenting over 40,000 miles of trails in a Geographic Information System (GIS) trails data base. The state is coordinating with multiple agencies including the USDA Forest Service, the Bureau of Land Management, and local entities to encourage cooperation among local cities, counties, and federal land management agencies.

Current Trail Issues

American Trails, a national trails advocacy organization, identifies five primary issues in trails planning, advocacy and development:

- **Health**. Trails promote mental, social, spiritual, and physical fitness through everyday activities that can combat the current health crisis affecting our society.
- **Community**. Trails help build "community" by creating a green infrastructure of trails and greenways in neighborhoods and new developments within 15 minutes of every American's home or workplace. Local trail systems are being connected to regional, state, and national trail systems enhancing access to numerous local and regional destinations from schools to major employment centers.
- **Active Transportation**. Trails provide alternative modes of travel that have the potential to carry a significant part of the transportation load and thereby lessen dependence on foreign oil and reduce CO2 emissions contributing to climate change, all while making the trail user healthier and more active.
- **Youth and Trails**. Using trails help children develop life-long habits of good health. Sharing the pleasures of being on the trail is an important way to help children mature into adults who become good stewards of the land. Educational and recreational programming along trails provides constructive activities for children while bringing families together.
- **Partnerships.** Trails funding, planning, construction, and maintenance are bringing together strategic partners representing agencies, different trail user groups, volunteers, developers, private landowners, utility companies, and businesses. These partnerships create a diverse coalition of stakeholders who value consensus building and sustainable long-term relationships.

Application: Pima County has begun collecting GIS alignments for many regional trails in the regional trails plan. The Pima Regional Trail System Master Plan promotes the incorporation of the entire regional trail system into a comprehensive GIS data base and encourages multi-jurisdictional input to the data base.

Internet-Based State Trail System

The state of Florida Department of Environmental Protection has developed the Cross Florida Greenway Trail. This innovative plan uses Internet technology to present information about the trail system to potential users. The State has over 6,000 miles of corridor identified. They view the state trails plan similar to the level of the interstate highway system, with state trails providing the main trail network, and regional, county, and city trail systems providing local linkages.

Application: The Pima Regional Trail System Master Plan promotes the incorporation of the entire regional trail system into the Pima County MapGuide Internet Web site.

Customer Service

The city of Austin, Texas utilizes multiple technologies including global positioning system (GPS), GIS, and the Internet to increase efficiency in trail design within their community. The Austin City Park System includes 234 parks and over 50 miles of trails. All of the trails and parks information has been collected via GPS and entered into GIS by staff. The resulting GIS information is used by both staff and recreation users and includes database information from surrounding jurisdictions. Local homeowner associations, utilities, and the general public all share in this information. Austin city staff will make custom maps for customers on a walk-in and e-mail request basis and are continually updating the files so they are always current.

Application: The Pima Regional Trail System Master Plan promotes incorporation of the entire regional trail system into a comprehensive GIS data base and the incorporation of that database of the regional trail system into the Pima County MapGuide Internet Web site where it can be easily accessed and updated.

Alternate Modes

The city of Davis, California may not be the first city to have a bike lane but they are the first to lay claim to it. Their bike system is 40 years in the making and boasts a 50/50 on-street/off-street network of bike lanes, with 15 to 18 percent of their commuters biking to work. The relatively flat terrain of the area, mild climate, and the network of bike paths and lanes contribute to the high number of bicycle commuters. Tucson and Pima County have the first two and are working toward the latter.

Application: The Pima Regional Trail System Master Plan promotes commuter use of the trail system by not only cyclists, but also by other non-motorized commuters such as in-line skaters, walkers, joggers, and users with physical disabilities. All trail users are encouraged to commute to work via the regional trail system.

Rails-to-Trails

The city of Indianapolis, Indiana has one of the busiest and most popular rails-to-trails programs in the nation, boasting more than 1.3 million users last year. The Cardinals Greenway Rails-to-Trails system is an extensive, well designed, award winning, and well-established trail system that follows the old Monan rail line between Chicago and Indianapolis. Other trails in the city are mostly in greenways or along waterways. The city is also planning an east/west rails-to-trails project on an old PA rail line.

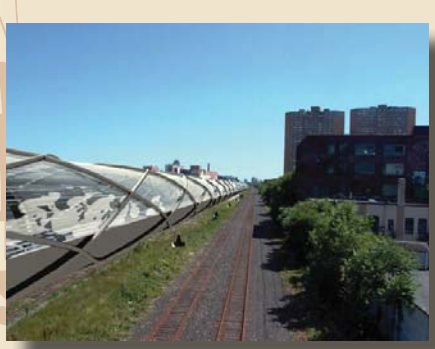
Application: The Pima Regional Trail System Master Plan includes the El Paso and Southwestern Greenway, formerly the El Paso and Southwestern Railroad right-of-way, the Esmond Station railroad bed on the old alignment of the Southern Pacific Railroad, and the newly designed CAP Trail, which follows the alignment of the Central Arizona Project Canal through Pima County. As additional abandoned rights-of-way are identified and made available, the Master Plan will continue to incorporate them into the regional trail system.

E. Benefits of Trails

Public trails have become increasingly popular over the past several decades, a trend borne out by surveys conducted in the preparation of parks and recreation master plans in this region and throughout the United States. They have become key elements of a community's quality of life and have proven themselves worth the investment. A 2001 survey of Omaha's recreational trails found that 81 percent of respondents felt the trail's proximity would have a positive effect or no effect on the ease of sale of their homes. Sixty-four percent of respondents indicated that the trail positively influenced their decision to purchase their home (*http://flagstaffbiking.org/loop-trail/economic-benefits*).

In Casa Grande, Arizona, the results of a survey for the city's 2008 Trail System Master Plan, indicated that "walking and biking trails" were the outdoor recreational facilities that respondents most wanted to see constructed in the community. Additionally, walking and biking trails were the facilities that the survey respondents were most willing to fund. There are many excellent reasons other than recreation for communities

What's New in Trails

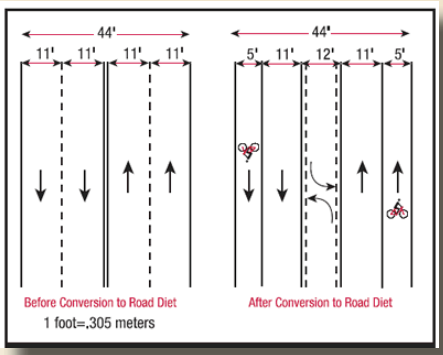


Velo City - Toronto

Elevated bikeways are completely enclosed in tubes for all-weather cycling. Tubes are separated by direction to create dynamic air circulation, creating natural tail winds. The idea is actually not new. In 1965, New York City mayoral candidate William F. Buckley, Jr. proposed elevated bikeways running the length of Second and Seventh Avenues. It was called the 'Buckley Bikeway'.

Land Bridge - Florida

The land bridge is a 52-foot wide, 200-foot long structure over Interstate 75. Specially designed structural beams support the weight of fieldstone walls and tons of topsoil for irrigated planters landscaped with native vegetation. The idea for the bridge came from the Netherlands, where similar wildlife overpasses are called "ecoducts."



Road Diets

Road dieting is a term that developed in the late 1990s to describe narrowing wide streets to be leaner and more productive by reducing the number and width of vehicular lanes and adding bicycle and pedestrian facilities. The typical diet candidate is a four-lane road carrying 12-18,000 auto trips per day. They can also be roads that have safety issues, are essential bicycle routes, historic streets, and scenic roads. This is one more method to emphasize non-vehicular mobility and increased human health over the need to accommodate increasingly more vehicles.

to make this investment, from improving residents' health and community air quality, to lessening dependence on the automobile as a sole means of transportation. The following ten reasons, although not investigated in depth, begin to illustrate many of the benefits of a regional trail system for Pima County.

Health and Exercise

Trails are great, low impact recreational opportunities that don't require special equipment to use and enjoy. They provide great opportunities to get out and exercise, contributing to the community's fitness and health. This is particularly important as the area's population continues to have issues with weight control, childhood obesity, and related diseases. A few minutes or a few hours on a recreational trail helps relieve the stresses of modern life. Trails offer terrific opportunities to spend quality time and interact with family members, friends, and neighbors. In an increasingly busy world with seemingly endless demands, trails provide an important mechanism to re-connect with the most important people in everyone's lives through recreation.

Health and Exercise

Although some health benefits seem to begin with as little as 60 minutes (1 hour) a week, research shows that a total amount of 150 minutes (2 hours and 30 minutes) a week of moderate-intensity aerobic activity, such as brisk walking, consistently reduces the risk of many chronic diseases and other adverse health outcomes. *(Physical Activity Guidelines for Americans, US Dept. of Health and Human Services, 2008)*

Experiencing Nature

Trails make it possible for people to experience firsthand the wonders of the natural world. Trails take users to places with incredible views and natural features not found anywhere else. As such, they are a gateway to another world. They provide an outdoor classroom, offering opportunities to teach respect and appreciation about the natural and cultural worlds, and develop stewardship of the natural environment. A well-planned and sensitively designed trail system can provide opportunities for the public to enjoy and learn about the protected open space their tax dollars help protect and, in the process, develop a constituency for the conservation of natural landscapes. Before any new facility is planned in a natural area, the benefits of the trail should be weighed against the impacts it could have on the environment and wildlife.

Reduction in Automobile Use

Trails offer opportunities to get from one place to another without using an automobile. A well-developed pathway system will provide all-weather paved access for commuter bicyclists, roller bladers, and hikers wishing to reach their places of employment or do their shopping. Encouraging

Benefits of Trails

- Health and Exercise
- Experience Nature
- Reduce Automobile Use
- Quality of Life
- Enhance Natural Habitats
- Natural Buffers
- Preserve and Interpreting History
- Increase Property Value
- Promote Economic Development
- Promote Tourism

people through education and outreach to get out of cars and find other ways to get to their destinations lessens pollution and improves air quality. Trails are important elements of Safe Routes to School programs, allowing students to bicycle and walk safely between their homes and schools, off-street and out of traffic's way. They also provide a safe means for both younger and older citizens to enjoy bicycling and walking away from the dangers of on-street traffic.

Quality of Life

Trails enhance a community's livability and its quality of life. The Pima Regional Trail System has become part of our unique "brand" as a community, helping to make the region well known around the state and beyond. It has become part of what makes Pima County and its municipalities unique and special.

Enhancing Natural Habitats

The development of trail corridors and greenways can encourage the restoration of wash corridors associated with trails. These restored washes can help create additional, albeit not pristine, habitat for wildlife in areas where such habitat didn't exist, or was severely constrained.

Natural Buffers

Trail corridors can provide a natural buffer between sensitive and critical habitats and rapidly encroaching development. They provide land managers a tool for directing public access around, and sometimes through, sensitive and critical habitats in a way that allows the public to enjoy these resources without damaging them.

Preserving and Interpreting History

The development of trails in certain historic corridors helps protect these corridors and their significance to the community. Local examples include: the 230-year old Juan Bautista de Anza National Historic Trail along the west bank of the Santa Cruz River; the 100-year old El Paso and Southwestern Rail Corridor, which will become a downtown greenway; and the Esmond Station Rail Corridor on Tucson's far east side, home to the worst rail disaster in the history of Arizona.

Increased Property Value

Research has shown that living in the vicinity of a recreational trail, such as a river park or greenway, can increase property values in the area, in some cases up to six percent more valuable, depending on the property's proximity to the trail corridor.

Healthy Air

Motor vehicle emissions represent 31 percent of total carbon dioxide, 81 percent of carbon monoxide, and 49 percent of nitrogen oxides released in the U.S. *(The Green Commuter, a publication of the Clean Air Council)*. A short, four-mile round trip by bicycle keeps about 15 pounds of pollutants out of the air we breathe. (*WorldWatch Institute) (League of American Bicyclists*)

Promote Economic Development

Top employers know that communities with outstanding recreational trail opportunities offer higher quality of life, making it easier to attract and retain well-qualified personnel. A great trail system enables economic development authorities to "sell" the community to potential employers, making Tucson and the surrounding communities more competitive in the global market.

Promote Tourism

Trails are a proven tourism draw. Tucson's incredible year-round weather and unique natural setting have drawn international tourists to this area for decades. Most of the once famous "dude" ranches have given way to world-class resorts. Several of the areas top resorts are located adjacent to hiking routes in the Catalina, Rincon, Santa Rita, Tucson, and Tortolita mountain ranges that ring the Tucson basin. Many of these resorts cater to eco-tourists and offer activities that include horseback trail rides, mountain biking, hiking, trail running, and more.

Increased Property Value

57 percent felt that living near a trail would make their homes easier to sell (*The Effect of Greenways on Property Values and Public Safety, Colorado State Trails Program, 1994*)

Promote Economic Development

The National Park Service report indicated that San Antonio's Riverwalk accounted for $1.2 billion in annual spending (*Economic Values of Greenways, Trails, and River Protection, National Park Service, 1990*)

F. Planning Process

The commitment of the jurisdictions participating in the planning process to transparency and thorough public participation led to the development and execution of an extensive public participation process for the update to the *Pima Regional Trail System Master Plan*. The public participation process included the following key elements:

Core Planning Team

The first step taken in the planning process for this document was the creation of a Core Planning Team consisting of the Trails Coordinator from the City of Tucson Parks and Recreation Department, the Trails Coordinator from the Pima County Natural Resources Parks and Recreation Department, and the consulting team of HDR Engineering, Inc., Coffman Studio, L.L.C., and McGann & Associates, Inc. The team's responsibilities included overall project coordination and planning. The Core Planning Team met for the first time in June of 2007 and then on an ongoing basis until the planning process was completed.

Project Advisory Group

A Master Plan Advisory Group was selected to assist with technical input and direction, and to provide overall project review in the planning process. The Advisory Group consisted of the Core Planning Team along with the bike and pedestrian coordinators from the City of Tucson, Town of Oro Valley, and Pima County Departments of Transportation,

as well as representatives from Town of Oro Valley Parks and Recreation, Pima Trails Association, Urban Trails Coalition, Tucson Urban Planning and Design, the Tucson Office of Conservation and Sustainable Development, Pima County Planning, the National Park Service, Bureau of Land Management, U.S. Forest Service, U.S. Bureau of Reclamation, the Southern Arizona Hiking Club, the Sonoran Desert Mountain Bicyclists, Tucson Clean and Beautiful, Tucson Saddle Club, County Line Riders, and the Tucson Inline Sk8 Club. The Advisory Group met for the first time in the summer of 2007, reviewed the draft in the summer of 2009, and met in the fall of 2009.

Project Focus Groups

Special focus groups were identified to solicit input from a wide cross-section of trail users including: river park users; equestrians; mountain bikers; trail runners; urban core users; users with physical challenges, and hikers. A focus meeting was held with each of these user groups over a three-month period. In addition, a series of working group meetings were held with members of the trail-using public, parks, and trail planners from the local jurisdictions, and a number of federal and state agency representatives to solicit special assistance in updating the Master Plan's Trails Map.

Planning Group

A special Planning Group, made up of professional planners from various City of Tucson departments, met in August and November of 2007, and January 2008, to deal specifically with the special challenge of retrofitting trails into Tucson's central core. City department representation included: Office of Conservation and Sustainable Development, Department of Transportation, Development Services, Urban Planning and Design, and Parks and Recreation.

Public Meetings and Coordination with Other Jurisdictions

A series of three public open houses was held in October of 2007 at different locations within the City of Tucson (Southwest Metro, Northwest Metro, and Midtown Metro). Local citizens were invited to attend and provide input on any subject of trails-related interest. The meetings were announced via fliers and a press release.

After a draft of the Regional Trail System Map was completed, an additional public open house was held in the November 2009 to present the draft *Pima Regional Trail System Master Plan*. Comments related to the Draft Master Plan were solicited. Adjustments to the plan were made

based on the input received. The meeting was announced via fliers and a press release.

Presentation of the final *Pima Regional Trail System Master Plan* was made to the Parks and Recreation Commissions of each of the local jurisdictions in eastern Pima County in mid-2010. The plan was then presented to elected officials from the City of Tucson and Pima County, also in mid-2010.

Document Review

In the preparation of the Pima Regional Trail System Master Plan, a wide range of planning documents were reviewed to ensure consistency. The planning documents reviewed include:

- *Fantasy Island Master Plan (2006)*
- *Houghton Area Master Plan (2005)*
- *City of Tucson Parks and Recreation Ten-Year Strategic Service Plan (2006)*
- *Urban Landscape Framework (March 2008)*
- *Oro Valley Trails Task Force Report* (2002)
- *Pima-Tucson Trails: The Next Five Years* (1992)
- *Pinal County Trails Plan (2005)*
- *Rincon Valley/Southeast Subregional Plan* (2004)
- *Rincon Valley Subregional Trails Plan* (1998)
- *The El Paso & Southwestern Greenway Concept Plan* (2005)
- *Growth and Development in Southeast Tucson* (2004)
- *U.S. Army Corps of Engineers plans – Tres Rios del Norte* (2006)
- *U.S. Army Corps of Engineers plans – Santa Cruz River, Paseo de las Iglesias Final Feasibility Report* (2006)
- *Town of Marana Transportation Plan* (from the 2003 General Plan)
- *Green Valley Community Plan (2006)*
- *Sahuarita 2002 General Plan, Recreation and Open Space Element*
- *Sahuarita 2008 Parks, Recreation, Trails and Open Space Master Plan*

Document review notes are attached in Appendix A-4 of this report. In addition to these documents, additional reports and maps of projects in the Pima County area were considered.

G. Major Issues Identified by the Public

Using information gathered during the planning process, the Core Planning Team categorized the comments received into the following, non-prioitized, issues:

Retrofitting the Tucson Central Core

Comments from the public consistently state the Master Plan needs to retrofit the existing regional trail system into the Tucson central core by providing a system of trail connections from existing residential neighborhoods, employment centers, schools, city parks, and commercial areas located within the City of Tucson, and extend them to the existing regional trail network surrounding the city. This "gap" was apparent in the most recent plan, the 1996 EPCTMP.

Public comments received on this topic

"More trails in the urban core…few trails in Tucson"

"Opportunity to access and enjoy trails in a natural resource setting close to home"

"Trailsportation"

The term "trailsportation" has been coined by authors of this plan to encompass two regional trail planning needs. The first is the need for the trail system to accommodate the widest possible range of uses and users. The second is the need to develop a trail system that is integral to the community's infrastructure by providing opportunities to move through the community without an automobile. "Trailsportation" incorporates both of these needs with an extensive system of paved paths and unpaved trails, located within common trail corridors, and designed to accommodate the widest cross-section of users possible, while connecting them to parks, schools, residential neighborhoods, shopping and entertainment areas, employment centers, regional destinations, neighboring communities, and natural and preserve areas.

Public comments received on this topic

"River Park accommodation of all users, particularly horses on top of the bank"

"Make regional trail system a part of the metro green infrastructure system"

"Develop a true "alternate modes" system that does not put people in traffic"

"Opportunities to ride bikes away from traffic

Major Issues Identified by the Public

- Retrofitting the Tucson Central Core
- "Trailsportation"
- Consistent Trail Standards
- Creating New Opportunities
- Access
- Accessibility

– a functional regional shared-use path system throughout the community"

Consistent Trail Standards

The public identified the need to develop trails consistently throughout the region. The Master Plan should include one set of development standards that identifies all trail types, trail access, trailhead design, trail and pathway widths, trail corridor widths, construction materials, and signage. One set of common standards should be developed and utilized by all jurisdictions.

Public comments received on this topic

"Trail standards—need to have them, and shared by all…"

"Uniformity of the regional trail system---path widths and signage, etc.".

"Signage and trail markers needed everywhere".

Creating New Opportunities

The Fantasy Island Trails Park was the first trails park in the region and was the result of a grass-roots effort to preserve a popular mountain biking area located close to where local users lived. It proved so popular that there are more trails parks proposed throughout the metropolitan area in this plan. Trails parks are just one of the opportunities noted to improve the trail system. Others included:

Public comments received on this topic

"Trail corridors—all of them—on Map Guide"

"Better maps – have a map for the whole system available to the whole community"

"Land bridge for the CAP Trail"

"Dedicated equestrian parks"

"Trails on all non-sensitive open space owned by the public—particularly ranch conservation areas, mountain parks, and more"

"More singletrack trails, particularly in natural resource areas"

Access

Public input has emphasized the Pima Regional Trail System needs to be designed to provide safe and convenient access from neighborhoods, employment centers, schools, and commercial shopping areas to the regional trail system.

Public comments received on this topic

"Finish Anza Trail", "Finish Arizona Trail", "Develop CAP Trail"

"Access to public lands"

"River parks need to be more substantial---wider and greener"

"Invest in infrastructure where needed to resolve connectivity issues"

"More trailheads and better access to local, state and public lands around Tucson"

"The UA athletes would really like it if we could complete the "core loop" around the metro area. They would definitely use it"

"Need more trails (per trail runners, equestrians, mountain bikers, hikers in public mtgs.)"

"Acquiring rights-of-way"

Accessibility

Public input indicated the regional trail system should provide safe and convenient access to the regional system for the widest range of users possible, including those with physical challenges.

Public comments received on this topic

"ADA compliance"

"More trails opportunities for physically-challenged users – more Feliz Paseos type parks"

"The UA athletes use the river park system, the David Bell bike path at Reid Park, the Old Spanish Trail Bicycle and Pedestrian Path, and pathways in Marana and Oro Valley for training purposes. All are usable for their purposes, even though the David Bell path at Reid Park gets crowded at times, making it hard to use"

"Having water and restroom facilities at the trailhead access points of the river parks and pathways system would be helpful for wheelchair users"

"Picnic areas would also be used, and need to be modified to ensure ADA accessibility"

"The wheelchair users are pleased that the "walking against traffic' pattern that was recently discontinued on the Rillito pathway is no longer in use. It was confusing for pathway users and caused problems"

"Having more maintenance to keep glass, dirt, and rocks off the path system would be helpful (glass is particularly a problem on the Aviation bike path). The tires on the competition chairs are a bit delicate and cost $70 each, and are easily punctured. Potholes are also a significant impediment for wheelchair-based pathway users. It was suggested to install signs that would encourage users to "report potholes" to help speed up maintenance activities"

"One problem occasionally encountered along the Santa Cruz

corridor is wild dogs…they sometimes chase the chair users"

"Having the asphalt mix on the river park system be as smooth as possible would be preferred by chair users. Rougher mixes are harder on tires and users, and less enjoyable to use"

"The greater the width of the pathways, the better. Provides more room for all users, and is safer. Wheelchair users like the Divided Urban Pathway cross-section…helps eliminate conflicts and creates a nicer river park corridor"

"Consider creating accessible park nodes along the river park system, such as basketball courts that can be used by wheelchair users with runoff areas or aprons behind the basketball poles and short fences that can catch the balls so they don't have to be chased down"

"Avoid allowing thorny trees in close proximity to the river park… branches from these trees get on the pathway occasionally and can puncture tires"

"Install more signs suggesting that pedestrians stay to the right. When chair and bike users approach a pedestrian and warn them of the approach by saying "on your left," the pedestrians tend to move or jump left, which can cause a conflict"

"The underpasses under bridges on the Rillito are narrow and dangerous…wider underpasses, and maybe mirrors where indicated, would be appreciated and make them safer, as would better signage that said "slow" or "caution"

"A speed limit might be helpful to keep speeding cyclists from causing conflicts. Consider "control your speed" signs in lieu of speed enforcement"

N
W
e
S

System Features

In this chapter

Descriptions of features that make the Pima Regional Trail System exceptional

A. The Regional Trail System Features

Pima County, Tucson, South Tucson, Marana, Oro Valley, and Sahuarita all have bragging rights to some of the most beautiful scenery in the country. There are many aspects and elements in the region that combine to create a unique setting for trails that is found in few other places. They include:

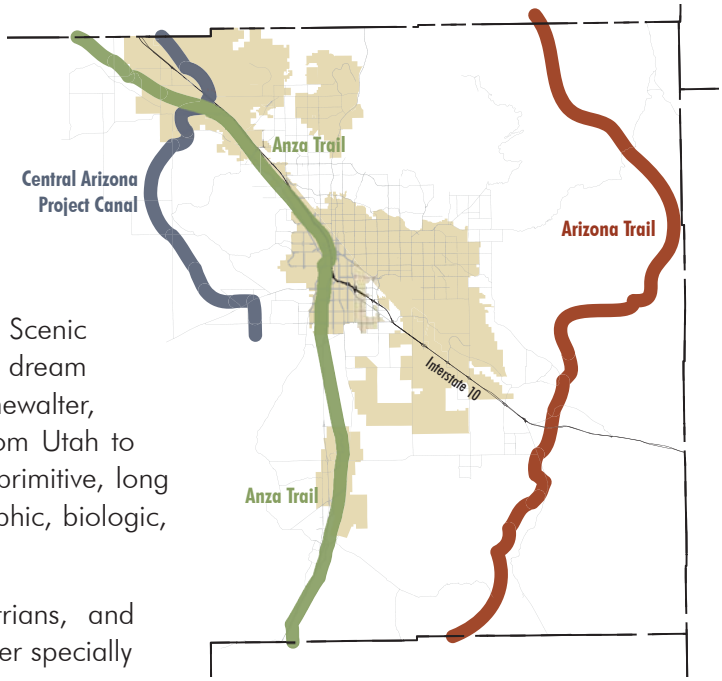
- Three Trails of National Significance
- A trails loop that surrounds the central city core
- Thousands of acres of preserve areas with multiple trails
- Dense urban fabric
- A shared use system
- Year round access

National Trails System Act

The 1968 National Trails System Act (P.L. 90-543) created the National Trails System to provide outdoor recreation opportunities and to promote the preservation of access to the outdoor areas and historic resources of the nation. There are four categories of trail: recreation, scenic, historic, and connecting (side) trails.

Trails of National Significance

Trails of National Significance are trails that have received formal national recognition under the National Trails System Act (P.L. 90-543) as either of historic, scenic, or recreational importance. Pima County has something that few communities can boast: three nationally-significant trails in close proximity to the metropolitan area—the Anza Trail (historic), CAP Trail (recreational), and Arizona Trail (scenic). The completion of these trails will make a major contribution to the development of the regional trail system.



Arizona Trail National Scenic Trail

Arizona's preeminent long-distance scenic trail is the Arizona Trail, a non-motorized, shared-use trail that has been under development since 1985 and received National Scenic Trail designation in March 2009. Originally the dream of Flagstaff teacher and hiking enthusiast Dale Shewalter, the trail stretches 817 miles across Arizona, from Utah to Mexico. The Arizona Trail is intended to be a primitive, long distance trail that highlights the state's topographic, biologic, historic, and cultural diversity.

The trail's primary users are hikers, equestrians, and mountain bicyclists (outside of wilderness or other specially

Arizona Trail

managed areas), but opportunities will also exist for cross-country skiers, snowshoers, joggers, and pack stock users. The trail is made up of 43 "Passages" from 11 to 35 miles in length. As of early 2010, more than 785 miles had been signed and were open to the public.

In Pima County, the Arizona Trail passes through land of several agencies, both federal and county: the Santa Catalina Ranger District of the Coronado National Forest (65 miles); Saguaro National Park (4 miles); unincorporated Pima County; Colossal Cave Mountain Park; the Cienega Creek Natural Preserve; and the Nogales Ranger District of the Coronado National Forest. In June of 2004, the Pima County Natural Resources, Parks and Recreation Department purchased 21.2 miles of perpetual right-of-way for the Arizona Trail from the southern boundary of Saguaro National Park to the Lakes Road in the foothills of the Santa Rita Mountains. Construction on this segment of the trail was initiated and called the Cienega Corridor Construction Project. From the fall of 2004 through the spring of 2008, 27 miles of trail were constructed using entirely volunteer labor. Other plans that reference the Arizona Trail are: *Arizona Trail Management Plan (Arizona State Parks, 1995), 1997 Pima County Bond Program (1997), Pima County Comprehensive Plan (2001), and Pima Regional Trails Plan (2010).*

Central Arizona Project (CAP) National Recreation Trail

Central Arizona Project Canal

A trail along the Central Arizona Project canal was first envisioned by Pima County Parks and Recreation in the mid-1980s, which led to the execution of a 50-year recreational development agreement between Pima County and the Bureau of Reclamation, the developer of the canal, in 1986. Since that time, the trail's first trailhead facility has been constructed at the corner of Sandario and Mile Wide roads and another trailhead will be constructed a short distance north of Tangerine Road in 2010.

A master plan for the 60-mile segment of the CAP Trail that passes through Pima County was initiated in 2002, but was placed on hold when issues arose between Pima County and the Central Arizona Water Conservation District (CAWCD) about where the trail will be located. Pima County's preference is to have the trail located on top of the CAP's protection dike, to take advantage of the already-constructed natural surface "trail" there and the expansive views it provides. This trail option is capable of supporting the vehicles used in routine canal surveillance. The CAWCD would prefer to keep trail users on the western "downslope" side of the canal, which is considerably less desirable from a scenic and quality-of-experience perspective. The CAP Trail Master Plan was completed in 2009, and implementation of the trail will begin when the CAWCD agrees to site the trail on top of the protection dike.

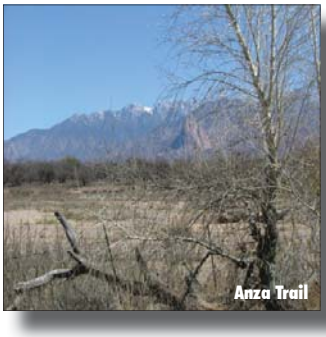
The CAP Trail was designated as a National Recreation Trail by the U.S. Secretary of the Interior in 2003. Other plans that reference the CAP National Recreation Trail are: *Pima County Comprehensive Plan (2001), CAP Trail Master Plan (Pima County (2009), and Pima Regional Trail System Master Plan (2010).*

Juan Bautista de Anza National Historic Trail

Pima County's most important historic trail route is the Juan Bautista de Anza National Historic Trail, which passes through Pima County on the west side of the Santa Cruz River. The trail is named for Spanish explorer and military officer Juan Bautista de Anza and commemorates the 1,200-mile overland route he followed in 1775-76 while leading an expedition to establish a presidio and mission at what is now San Francisco Bay. The Anza Trail was designated a National Historic Trail by the United States Congress in 1990.

Development of the Anza Trail has been underway in Pima County since 1990. In the Tucson metropolitan area, the trail coincides with existing segments of the Santa Cruz River Park, although those segments need to be expanded to the Divided Urban Pathway configuration to properly accommodate the Anza Trail, which requires its own ten-foot wide natural surface path according to the Board of Supervisors-adopted Anza Trail Master Plan. The existing segments of the Santa Cruz River Park along the west bank have been fitted with "Juan Bautista de Anza National Historic Trail" signs.

Development of the Anza Trail and related facilities is also underway in the Green Valley area. In 2007, a five-mile segment of the trail was finished on Pima County's historic Canoa Ranch property, as a result of a federal Transportation Enhancements (TE) grant administered by ADOT. In addition, a bridge was constructed over Drainageway #7 on the Haven Golf Course in 2006 adding to the trails continuity. Also in 2006, a new trailhead was constructed along the east side of Abrego Drive in the northeast corner of the Santa Rita Springs development. Pima County Parks, Real Property and Cultural Resources staff are presently working to assemble a corridor more than ten miles in length for the Anza Trail in the Green Valley area using easements and fee property dedicated or acquired since the early 1960s, and intend to develop a continuous segment of the Anza Trail through the Green Valley and Sahuarita area. Other plans that


Anza Trail

reference the Anza Trail are: *Pima County Comprehensive Plan (2001), Juan Bautista de Anza National Historic Trail Master Plan (Pima County, 2004), and Pima Regional Trail System Master Plan (2010).*

The Urban Loop

The Pima Regional Trail System includes a framework of significant trail corridors that include the Santa Cruz, Rillito, and Pantano River parks, the Houghton Road Greenway, and the Julian Wash Greenway. These five interconnected corridors form a continuous "Loop" surrounding the City of Tucson's central core. Many of the other trails within the Pima Regional Trail System connect either directly or indirectly to the Urban Loop. Each of the five trail corridors that form the Urban Loop include a path and trail. The Santa Cruz, Rillito, and Pantano River parks include a path and trail on both sides of the river where possible.

Santa Cruz River Park

Path and trail both sides.

Rillito River Park

Path and trail both sides.

Pantano Wash

Path and trail both sides.

Houghton Road Corridor

Path and trail east side of road.

Julian Wash Greenway

Path and trail vary from side to side and are sometimes split, one on each side.

Trails in Natural Resource Areas

Pima County's first recreational trails were located within the community's protected open space preserves, the creation of which dates back to the early 1900s with the establishment of the Coronado National Forest in 1908. Tucson and Pima County

are fortunate that open space conservation occurred in earnest in the region in the 20th Century, because it set the stage for an extensive and varied trails network. Tucson was inducted into the American Hiking Society Trail Town USA Hall of Fame in 1996 and has been a League of American Bicyclists Gold Level Bicycle Friendly Community since 2004. Visitors come from around the world to enjoy the scenery and trail opportunities in the Coronado National Forest, Tucson Mountain Park, Saguaro National Park, Catalina State Park, and more. These preserves have become a key element of the quality of life for area residents.

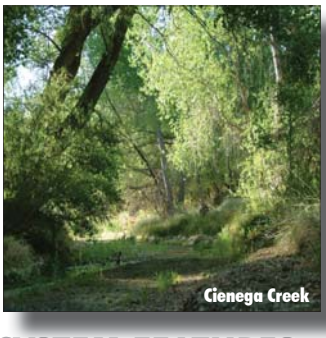
Natural Resource Areas with Existing Trails

Catalina State Park

The 5,511-acre Catalina State Park is located in the western foothills of the Santa Catalina Mountains within the boundaries of the Coronado National Forest. The Park, managed by Arizona State Parks in cooperation with the National Forest Service, offers approximately 12 miles of trails open to hikers, equestrians, and mountain bikers. The park is a special favorite of horseback riders and includes an equestrian center with horse rig parking, a corral, and other equestrian facilities. The 8-mile long, 50-Year Trail begins in the park, as do the Sutherland and Romero Canyon trails, which provide access to the forest's Santa Catalina Ranger District trail system and the Pusch Ridge Wilderness Area.

Cienega Creek Natural Preserve

The 4,151-acre Cienega Creek Natural Preserve, located approximately 25 miles southeast of Tucson, was established by Pima County in 1986 to protect the creek's sensitive and increasingly rare riparian ecosystem, as well as to promote natural aquifer recharge and provide flood protection for downstream Tucson. The Preserve will continue to expand, per the 1994 management plan, using funding from the Pima County Regional Flood Control District and future Pima County Open Space Bond programs.


Cienega Creek

A management plan prepared for the Cienega Creek Natural Preserve in 1994, and updated in 2010, identified a number of possible new trail alignments. To date, the only formal trail that has been developed is the Arizona Trail, which was sited through the Preserve in 2001-2002 and

constructed in 2004-2005 as a part of the Arizona Trail Cienega Corridor Construction Project. Public access into the Preserve is carefully controlled to help protect its pristine riparian characteristics. Up to 50 hikers per day are allowed into the Preserve with a permit secured from the Pima County Natural Resources, Parks and Recreation Department. Arizona Trail users are allowed to pass through the Preserve without a permit. Three trailhead facilities presently exist at the Preserve: a primitive access point at the northern end of the Preserve immediately south of Colossal Cave Road; the Davidson Canyon Trailhead located approximately 1,800 feet west of Cienega Creek south of Marsh Station Road; and the Three Bridges parking area located at the northwest corner of the Cienega Creek and the historic 1921 Marsh Station Road Bridge. Other plans that reference Cienega Creek Natural Preserve are: *Cienega Creek Management Plan (1994), Pima County Comprehensive Plan (2001), and Sonoran Desert Conservation Plan (2001).*

Colossal Cave Mountain Park

Colossal Cave Mountain Park

Colossal Cave has been a recreation destination for both local residents and visitors since the late 1800s, and has been a formal County mountain park since 1991. The park is best known for the tourist attraction from which it draws its name, but this very scenic 2,200-acre property also offers outstanding recreational trail opportunities for hikers, mountain bikers, and equestrians. The park's primary trail feature is its three-mile long segment of the Arizona Trail, which was constructed in 2005-2006 and passes through the park on a north-south alignment. A network of equestrian trails, most constructed over time by the park's horseback ride concessionaire, also exists and is in need of rerouting and maintenance. Other plans that reference Colossal Cave Mountain Park are: *Colossal Cave Mountain Park Master Plan (1998), Pima County Comprehensive Plan (2001) and Sonoran Desert Conservation Plan (2001).*

Coronado National Forest

Southern Arizona is home to one National Forest, the 1,792,000-acre Coronado National Forest. The forest, named for the Spanish explorer Francisco Vasquez de Coronado, consists of five ranger districts, two of which are located in Pima County—the Santa Catalina and Nogales ranger districts.

The 262,000-acre **Santa Catalina Ranger District** is situated immediately north and east of Tucson and is the Forest's smallest unit; however, it attracts the largest number of visitors because of its immediate proximity to Tucson. The District encompasses the Santa Catalina Mountains, including 9,157-foot Mount Lemmon and a large portion of the Rincon Mountains. The District is home to more than 400 miles of backcountry roads (195 miles) and trails (212 miles) open to hikers, equestrians,

mountain bikers, and, in some areas, off-highway vehicle enthusiasts. Highlights of the District include a 65-mile section of the Arizona Trail; the hiking trails in the front range of the Catalinas and Rincons (Pima Canyon, Finger Rock, Pontatoc, Ventana, Milagrosa and Agua Caliente canyons); the Sabino Canyon Recreation Area; Redington Pass (a favorite riding area for mountain bicyclists); and numerous high country trails such as the Aspen Draw, Butterfly, and Marshall Gulch.

The Santa Catalina Ranger District is served by several Pima County-managed trailhead parking facilities (Pima Canyon, Finger Rock, Ventana), which is representative of the access partnership that exists between the Forest Service and Pima County Natural Resources, Parks and Recreation Department. Other plans that reference Coronado National Forest Santa Catalina Ranger District are: *Coronado National Forest Management Plan (2005), Pima County Comprehensive Plan (2001), and Sonoran Desert Conservation Plan (2001).*

The 370,000-acre **Nogales Ranger District**, the Coronado National Forest's third-largest unit, is located south of Tucson and encompasses most of the Santa Rita Mountains. Its backcountry roads (350 miles) and trails (125 miles) offer excellent opportunities for hikers, equestrians, and mountain bikers. The Nogales Ranger District is home to the Elephant Head mountain bike route, which begins southeast of Mount Hopkins and winds around the western Santa Rita Mountains foothills to Madera Canyon, and a key segment of the Arizona Trail, which passes through Kentucky Camp, an abandoned mining settlement established in the late 1800s. The Nogales District portion of the Arizona Trail is presently unfinished. Approximately 11.5 miles remains to be constructed between the Lakes Road on State Trust Land, about three miles outside the Forest, and Oak Tree Canyon, within the Forest. Construction of this key segment is slated to occur in 2009-2010. Other plans that reference Coronado National Forest Nogales Ranger District are: *Coronado National Forest Management Plan (2005), Pima County Comprehensive Plan (2001), and Sonoran Desert Conservation Plan (2001).*

Empire-Cienega Resource Conservation Area

The Empire-Cienega Resource Conservation Area is a 42,000-acre preserve located in southeastern Pima County, south of Interstate 10 and east of State Highway 83 and approximately 50 miles from Tucson. The Resource Conservation Area (RCA) is located within the 142,800-acre Las Cienegas National Conservation Area (NCA), which was established on December 6, 2000. Both the RCA and NCA are managed by the Tucson Field District Office of the U.S. Bureau of Land Management.

The RCA/NCA is home to the historic 19th Century Empire Ranch, and encompasses the rolling grasslands of southeastern Pima County

and a segment of Cienega Creek, as well as a number of trails listed on the original *Eastern Pima County Trail System Master Plan*. Other plans that reference Empire-Cienega Resource Conservation Area are: *Coronado National Forest Management Plan (2005), Sonoran Desert Conservation Plan (2001), and Empire-Cienega Resource Conservation Area Management Plan (2004).*

Ironwood Forest National Monument

The Ironwood Forest National Monument was created by Executive Order in May 2000 by President Clinton. It encompasses approximately 129,000 acres of Sonoran Desert land northwest of Tucson and west of the Avra Valley, and includes portions of the Silverbell, Waterman, Roskruge, and Sawtooth mountain ranges. The concept for this preserve was developed by the planning staff of the Pima County Natural Resources, Parks and Recreation Department, and is administered by the U.S. Bureau of Land Management. The monument's resources are significant and include mountains ranging from 1,800 feet to 4,200 feet in elevation and archeological resources listed on the National Register of Historic Places. Several endangered and threatened species live in the monument, and the desert bighorn sheep living in the region are the last viable population indigenous to the Tucson basin. Ragged Top Mountain, a regional landmark and favorite hiking destination, is the biological and geological crown jewel of the Monument.

The Park has an existing system of backcountry roads and trails that are open to hikers, mountain bikers, and equestrians. The creation of the Ironwood Forest National Monument provided the impetus to extend the Regional Trail System through the Avra Valley and to the eastern edge of the Preserve, subsequently connecting the monument and its trail system to the rest of the Tucson metropolitan area. Other plans that reference Ironwood Forest National Monument are: *Pima County Comprehensive Plan (2001), Sonoran Desert Conservation Plan (2001), and Ironwood Forest National Monument Management Plan (2008).*

Saguaro National Park

Saguaro National Park was established as a National Monument by President Hoover in 1933 and was upgraded to National Park status by Congress in 1994. The park consists of two units located approximately 30 miles apart: the 67,293-acre Rincon Mountain District on the east side of the Tucson Basin and the 24,034-acre Tucson Mountain District on the west side of the metro area. A new General Management Plan has been prepared for the Park that will include trails plans for both districts.

The **Rincon Mountain District,** home of the park's administrative headquarters, takes in most of the Rincon Mountains. In 1976, Congress designated 57,930 acres of the district as federally-designated wilderness

area. The Rincon Mountain District presently offers over 100 miles of recreational trails for hikers and equestrians, some of which begin on the desert floor and climb high into the Rincon Mountains (the Douglas Spring and Tanque Verde Ridge trails). A two and one-half-mile section of the Cactus Forest Trail inside the District's paved loop drive is accessible to mountain bicyclists and was the first shared-use single-track trail open to mountain bikes in any U.S. National Park. The Arizona Trail passes through the backcountry of the park. Its southern end will be relocated to connect with the northern end of Pima County's section of the trail, which has been constructed to the southern border of the park's east expansion area. Other plans that reference Saguaro National Park Rincon Mountain District are: *Pima County Comprehensive Plan (2001), Sonoran Desert Conservation Plan (2001), and Saguaro National Park General Management Plan (2008).*

The **Tucson Mountain District,** established by President Kennedy in 1961, abuts the northern edge of Pima County's Tucson Mountain Park and offers approximately 50 miles of trails for hikers and horseback riders. Mountain bikers are presently confined to the District's system of dirt roads. The Pima County-maintained El Camino del Cerro Trailhead provides access to the park's popular Sweetwater Trail.

Santa Rita Experimental Range

The Santa Rita Experimental Range was created in 1903 and was administered by the U. S. Forest Service until 1987 when the management of the property was transferred to the University of Arizona College of Agriculture. The Range is located approximately 35 miles south of Tucson at the northwestern corner of the Santa Rita Mountains, and consists of 53,159 acres of Arizona State Trust Land. The property is composed primarily of long, gently sloping alluvial fans, and ranges in elevation from 2,900 feet at its northwestern corner to approximately 5,000 feet in the southeast. According to the University of Arizona, the Santa Rita Experimental Range was founded to study range recovery from drought and overgrazing, as well as sustainable grazing practices. Livestock grazing has been studied by university and government scientists at the site for over 80 years. Public recreational trail access is not presently allowed on the property because of the site's primary research mission, but should the range's mission or access policy change in the future, the range's existing informal system of dirt access roads and trails should be tapped for a recreational trail system, particularly for equestrians.

Tortolita Mountain Park

In 1986 and 1987, Pima County acquired 3,056 acres of land using 1986 Open Space Bond funding to establish Tortolita Mountain Park. The Park is now more than 4,000 acres, but is poised to grow considerably when

several large parcels of BLM and Recreation and Public Purposes Act (R&PP) land, totaling more than 2,000 acres, are added to the Park. The 1997 and 2004 Open Space Bonds also included funding to acquire Arizona State Trust Lands that will expand the Park to the east and west.

Because the majority of the Park's land base is located in the middle of the mountain range, little on-the-ground work has been accomplished to develop a functional trail system. However, the Town of Marana has constructed 15 miles of trails in and around Wild Burro Canyon using 2004 Open Space Bond Funds, including Wild Burro Canyon Trail, Alamo Spring Trail, Upper Javelina Trail, Wild Mustang Trail, and the Cochise Spring Trail. A new public trailhead facility will be constructed by the Town in 2010 adjacent to the Ritz-Carlton resort.

Recreation and Public Purposes Act

In 1954, Congress enacted the Recreation and Public Purposes Act (68 Statute 173; 43 United States Code 869 et. seq.). This law is administered by the Bureau of Land Management. The act authorizes the sale or lease of public lands for recreational or public purposes to State and local governments and to qualified nonprofit organizations. Examples of typical uses under the act are historic monument sites, campgrounds, schools, fire houses, law enforcement facilities, municipal facilities, landfills, hospitals, parks, and fairgrounds. (*www.blm.gov*)

In addition, Pima County has prepared a master trails plan for the park that encompasses Pima County's existing holdings; the Town of Marana's 2,400-acre Tortolita Preserve; the undeveloped lands within the park's 1997 Board-adopted 21,035-acre master plan expansion boundary; and the expansion boundary identified in Pinal County's 2007 *Open Space and Trails Plan*. Other plans that reference Tortolita Mountain Park are: *Tortolita Mountain Park Master Plan (1997), Pima County Comprehensive Plan (2001), Sonoran Desert Conservation Plan (2001), and Tortolita Mountain Park Trail System Master Plan (2008).*

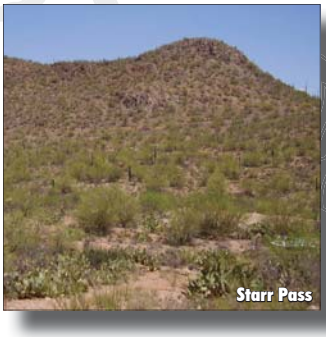
Tucson Mountain Park

Tucson Mountain Park (TMP) was created by the Pima County Board of Supervisors in 1929. It now encompasses approximately 24,000 acres of Sonoran Desert open space and includes a shared-use trail system with approximately 62 miles of trails. The park's trails vary in condition from good to excellent. Several sections of the park's major trails, some of which began life as doubletrack jeep trails, are in need of rerouting to improve their safety and sustainability.

A new management plan for TMP was completed in the late spring of 2008. The plan reconfigured the park's trail system and identified several new trail segments for future construction. One of these segments is a new link from the planned Ajo Highway Ecoduct to the Starr Pass Trail, which will link TMP's trail system to the new trail system in the Robles Pass Trails Park. The plan calls for a realignment of the Cougar Trail in the northern part of the TMP, much needed signs for the park's trail system, and additional land acquisitions to insulate the park from encroaching development.

Public access to TMP has improved markedly in recent years with the construction of several new trailhead parking facilities, including the Starr Pass Trailhead (44 cars and five horse rigs), the 36th Street Trailhead

(22 cars and four horse rigs), the Sarasota Trailhead (22 cars), and the improvement of the existing Camino de Oeste Trailhead from four unimproved parking spaces to 14 spaces in a parking lot on the west side of the road near its southern terminus. Other plans that reference Tucson Mountain Park are: *Sonoran Desert Conservation Plan (2001), Pima County Comprehensive Plan (2001), and Tucson Mountain Park Management Plan (2008).*



Dense Urban Fabric

The highly developed, urbanized core of Tucson provides both a challenge and an opportunity for finding creative ways to link urban residents to the vast trail, cultural, and natural resources within and around Tucson. Within this urban area are various street and alley types with a range of speeds and character; a diverse mix of land uses, building heights, and densities; and an array of historic sites, neighborhoods, and destinations from universities to medical centers. Parks and schools help to anchor neighborhoods. Buses, trolleys, bike lanes, and soon a modern streetcar provide some alternative transportation choices to vehicle use. What is typically not here are the traditional non-motorized facilities such as paved paths and unpaved trails. Some corridors exist for these more traditional uses, like the El Paso and Southwestern Greenway. However, in order to comfortably and conveniently move about on foot or bike, other non-traditional facilities must be considered to provide linkages in this urban setting. Alleys, streets, drainage corridors, and railroad corridors are the resources to consider to make these needed connections. The level of detail for determining all possible alleys and small drainages as non-motorized routes is beyond the scope of a regional plan. However, as shown in the figure on this page, linking several small routes can provide access from a neighborhood to a regional facility.

Because many of the traditional natural trails and pathways in the urbanized areas either no longer exist, are not in a form that can be easily and/or safely used, or may not be under public ownership, it is often necessary to retrofit a system of alternative non-motorized routes into the built, urban environment. Ideally, the urban network will be linked to the traditional trail system located outside of the more urbanized areas; it should also be designed so that users can easily switch between the motorized and non-motorized networks.

Latent Demand

Latent demand is a methodology of analyzing which routes pedestrians would be most likely to use if vehicular traffic were not an impediment.

Latent Demand for Trails in Tucson's Urban Core

Providing new trail connections from Tucson's urban core area to the surrounding regional trail network was addressed, in part, by the use of a latent demand analysis. Since trails and paths historically tend to follow significant landscape features, they provide only a portion of the region's non-vehicular mobility routes. In the urbanized areas, the ability to move about easily without a vehicle depends upon an interconnected system of sidewalks or pedestrian routes that provide links between where people are and where they want to go. Current development standards typically require that sidewalks be constructed with new development, but more can be done to facilitate pedestrian travel in the metro Tucson area.

Recent studies have been conducted in the metro Tucson and Phoenix areas to assess where pedestrian systems would be most utilized, i.e., where the demand is greatest. The Pima Association of Governments (PAG) *Regional Pedestrian Plan - July 2000*, identified several Pedestrian Area Designations, including Pedestrian Districts, Activity Corridors, Activity Centers, and Transit Routes. Assessing or predicting where these pedestrian areas are located was done through a Pedestrian Latent Demand Assessment. Logically, in areas where there are concentrations of existing or potential pedestrians, the pedestrian environment should be enhanced to encourage even more use of alternative transportation modes, such as multi-use trails and paths.

Mathematical models have also been used by PAG, as well as the Maricopa Association of Governments (MAG), to determine Pedestrian Latent Demand. The Pedestrian Latent Demand Model estimates pedestrian activity along segments of roadway corridor based upon the frequency and proximity of adjacent trip destinations (attractors), such as parks, schools, employment centers, and trailheads, and origins (generators), such as residential neighborhoods. The results are not surprising: areas of highest population density with the greatest mix of uses have the highest pedestrian latent demand, while areas with the lowest density and single land uses have the lowest latent demand. The models often quantify what seems both inherently reasonable and predictable.

For the purposes of this planning process, a more simplified and intuitive approach was used to determine latent demand in the urban core area. The Pedestrian Latent Demand Assessment process was used to match recommended pedestrian accommodations to anticipated levels of pedestrian activity (also see Appendix A-1), and this formed the basis for identifying where pedestrian system elements should be implemented.

Singletrack Trail

Master Plan

In this chapter

Vision and Goals
Guiding Principles
Trail System Elements
Standards
Facilities List

A. Vision and Goals

Vision

In August of 2007, Charles Flink, a well-known trails designer and speaker, gave a presentation on national trail trends, specifically on trails in Pima County. Road diets and land bridges were just two of the trends he discussed. Based on his local observations, Mr. Flink identified two key areas for improvements: the need for uniform trail standards and the need to complete the river trail system. Based on the public meetings conducted for this study, input from local advocates, and assessments from recognized experts such as Mr. Flink, the resulting vision for the trails plan is:

> *Pima County envisions a safe, diverse trail system that provides outstanding recreation, fitness, and transportation opportunities for residents and visitors, including physically-challenged users, which contributes to the physical, health, and economic well-being of the community and overall quality of life.*

Goals

The goals of this plan are the same as those from the 1989 and 1996 EPCTSMP. They are summarized as follows: provide a trails network throughout the region; expand the system to connect recreation lands; extend trails into urbanized areas where they are lacking; accommodate all users; and co-locate trails with other community facilities. Additional goals to achieve a trail system that will be widely used and embraced include:

- Create connectivity between homes, schools, jobs, and commerce.
  - Extend trails into areas that have no connection to the system.
  - Increase connectivity between trails, creating loops that provide a range of options and experiences.
  - Develop a trails network that connects to other modes of travel (bus system, transit system).
- Increase opportunities for interpretive experiences.
  - Increase educational outreach through the use of kiosks, trail-walking, and nature guides.

This plan envisions...

...a trail system that is of the highest quality and serves as a model for other communities in the country.

Mission

...provide access to the trail system within 15 minutes walking distance of the majority of Pima County residents...

  - Continue to acquire land for wildlife corridors and wetlands that can include interpretive trails about the environment.
- Encourage a wider range of involvement and use of the Trail System from the community.
  - Improve trail signs and mapping so the trail system is easier to navigate.
  - Increase the amount of information provided to the public (marketing) so that this amenity is visible to all interested users.
  - Increase the number of trailheads (access) to the system.
- Improve safety measures throughout the trail system.
  - Increase informational signs along the trail system to educate users about the appropriate measures and rules to follow on multi-use paths/trails.
  - Maintain and improve the condition of paved paths.
  - Support the creation of a volunteer corps to help staff operations and maintenance shortfalls.

The mission of the updated Pima Regional Trail System Master Plan is to provide access to the trail system within 15 minutes walking distance of the majority of area residents. Equally important is to develop a system of interconnected trail facilities that effectively link communities, parks, schools, destination attractions, and open spaces within the greater Tucson Metropolitan area.

B. Guiding Principles

To achieve the primary goal of developing the *Pima Regional Trail System Master Plan*, the following principles were embraced:

Natural Resources

The Pima Regional Trail System Master Plan is committed to improving native vegetation and wildlife habitat located in and adjacent to trail corridors. Wide trail corridors should be encouraged to provide ample room for both a trail and wildlife habitat. A design function for all corridor development should be providing habitat for wildlife. In addition, all new development should be required to contribute to the metropolitan area's green infrastructure, thus ensuring the enhancement of existing vegetative and wildlife habitat and providing additional open space in the community. Water harvesting techniques should be incorporated throughout the corridors to conserve water and promote healthy habitats.

Cultural Resources

The Pima Regional Trail System Master Plan is committed to the protection and preservation of valuable cultural resources located in and adjacent to trail corridors. Pima County has been home to human habitation for

thousands of years. The ancient peoples that first lived in the region left many important remnants of their settlements that remain to be discovered, and are being uncovered as new projects are implemented around the metropolitan area. More recent historical features, such as the downtown Presidio wall, are being uncovered, re-interpreted, and celebrated as key elements of Pima County and Tucson's past. These remnants of cultural heritage are important to researchers in their ongoing efforts to understand as much as possible about the peoples that came before, and the protection of these assets is critically important.

The jurisdictions participating in this planning process are committed to the protection of cultural resources, both ancient and historic. To assure the preservation of these resources, cultural resource surveys will be undertaken as a part of every project, consistent with the policies and approaches of each jurisdiction.

ADA Compliance and Opportunities for All Users

The Pima Regional Trail System Master Plan is committed to providing recreational trail opportunities for users of all abilities. Everyone, to the maximum extent feasible, should have the opportunity to share as many elements of the regional trail system as possible. While some of these elements may remain beyond reach, such as singletrack trails in extreme terrain, this Master Plan strives to ensure that the majority of elements are accessible.

What "accessible" means for the purposes of this plan is to be as consistent as possible with the Americans with Disabilities Act (ADA). One way to remove such barriers is to apply ADA-recommended design standards on a regular basis, not just to certain trail segments or trails parks. A real-world example is Feliz Paseos Universal Access Park (described later in this plan).

Sustainability and Green Infrastructure Integration

The Pima Regional Trail System Master Plan is committed to the concept of "sustainability." In recent years, the concept of sustainability has become an increasingly significant concern to individuals and organizations worldwide. Sustainable trail design accommodates existing and future uses without degrading the natural environment.

Guiding Principles

- Natural Resources
- Cultural Resources
- ADA Compliance and Opportunities
- Sustainability and Green Infrastructure
- Consistent Trail Standards
- Health and Fitness
- "Trailsportation"
- Prudent Development

Consistent Trail Standards

The Pima Regional Trail System Master Plan is committed to developing consistently throughout the region, utilizing one set of development standards for all jurisdictions. The development of an interconnected regional trail system will require consistent design and construction in order to provide seamless transition from one jurisdiction through another.

Health and Fitness

The Pima Regional Trail System Master Plan is committed to expanding human health. Providing for a variety of outdoor activities is beneficial to maintaining and improving human health.

"Trailsportation" Concept

The Pima Regional Trail System Master Plan is committed to accommodating the widest range of uses and users as well as providing opportunities for local citizens to move through the community without an automobile. The trail corridors described in this plan, such as the river parks, greenways, linear parks, and other shared-use facilities, to the largest extent possible, will be designed to provide a separated and divided unpaved trail adjacent to a paved path to offer trailsportation opportunities for all non-motorized user groups.

Prudent Development

The Pima Regional Trail System Master Plan is committed to developing a system at a rate and quality that can be sustained. The total system, as conceptually shown in this plan, is extensive and ambitious. However, as projects are selected for construction, the operation and maintenance costs should be calculated and set aside. If the new project can not be maintained when completed, it may be prudent to shelve the project until a future date. It is better to have fewer, well-maintained trails and paths than an extensive network of poorly maintained facilities.

C. Trail System Elements

Paths, trails, and their associated amenities are the connective, non-motorized transportation and recreation elements that tie the region's communities (Tucson, South Tucson, Marana, Oro Valley, and Sahuarita) and destinations together. These destinations can be local in nature, such as neighborhood parks, schools, and neighborhood shopping areas, or can be regional destinations such as national parks and forests, River Parks, downtown Tucson, emerging community cores, the University of Arizona, and major employment and shopping areas.

Trails and paths are generally located within parks, open space areas, along drainage features, railroad and utility corridors, and adjacent to vehicular routes. They are located and designed for all types of users with various levels of abilities. Trailheads and access points are located to maximize residents' ability to easily and safely access the path and trail system. Enhanced crossings along path and trail routes will minimize users' potential conflicts with vehicles and improve their safety and comfort.

The Pima Regional Trail System at its most basic level is an interconnected multi-modal network of paths and trails. The system philosophy is **respectful mutual accommodation**—all users share all paths and trails unless there is a safety issue or technical limitation. Only motor vehicle users are not permitted on the trail system. Path and trail surface material tends to be self-selecting for the type of use that will be attracted to either a trail or path. For instance, roller bladers prefer paved surfaces and equestrians prefer unpaved surfaces.

Trail System Philosophy

Respectful mutual accommodation - all users share all paths and trails unless there is a safety issue or technical limitation

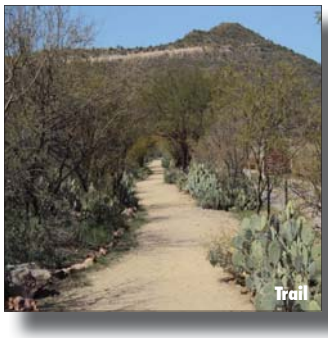
When complete, the system will be an interconnected network of corridors and destinations capable of providing high-quality recreation, fitness, and alternate transportation opportunities for multiple users including walkers, joggers, roller bladers, bicyclists, and equestrians. It should be remembered that the lists of elements and maps are not intended to be exclusive and exhaustive. Additional corridors or projects may be identified and added as opportunities arise, enhancing the overall system, or be subtracted as conditions are analyzed.

Following are short descriptions of Main and Supporting Elements followed by more detailed standards and finally, descriptive lists of all facilities by type.

Main Elements

Trails

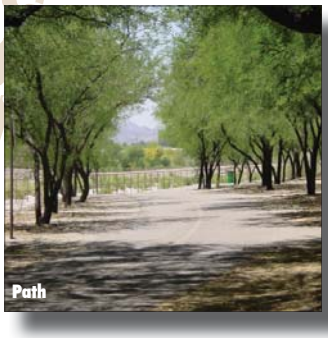
Trails are used by multiple user groups such as mountain/recreational bicyclists, walkers, runners, hikers, equestrians, and others who prefer a soft, natural surface rather than a hard paved surface. Trails connect local and regional destinations and neighborhoods within a larger trail network. They are located in all types of situations: along roadways, washes, utility corridors, and within small and large open space areas. They may be used by small maintenance and emergency response vehicles.



Singletrack Trail

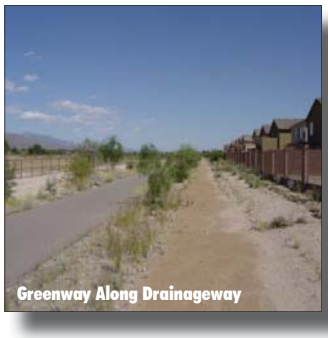
Singletrack Trails

These trails are predominantly located within preserved open space, washes, mountainous areas, non-developed, or protected areas. However, they are also located wherever a narrow trail is desired, including in urban and suburban areas. They are built with greater sensitivity to the existing natural environment and are therefore narrower than the 8-foot trail used in more developed parts of the system, but still should accommodate multiple user groups who prefer an unpaved surface. Singletrack Trails should be no wider than they need to be, with two to three feet being the recommended width range.


Path

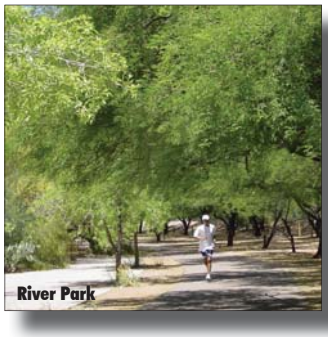
Paths

This paved facility is used by bicyclists, pedestrians, joggers, strollers, wheelchair users, in-line skaters, other non-motorized users, and anyone wanting a smooth and consistent surface. Paths are signed for various users, are ADA accessible (when less than five percent grades), and may also be used by small maintenance and emergency response vehicles. Paths include an adjacent four-foot unpaved shoulder on one side to provide greater options for the diversity of non-motorized users from roller bladers, who prefer a paved surface, to joggers, who prefer an unpaved surface.


Greenway Along Drainageway

Greenways

Greenways are a corridor that typically features a path and trail, preserved native vegetation and/or landscape plantings, and pedestrian amenities. Greenways typically follow washes or drainageways but can also be adjacent to roads. If the greenway is along a wash, the path and trail can be together on one side (equivalent to the Divided Urban Pathway) or one on each side of the wash. Greenways are similar to River Parks except that right-of-way width is less, features are less extensive, and at-grade crossings of streets are more common.


River Park

River Parks

River Park corridors have a separated and divided path and trail on both sides of the river, offering the maximum opportunities for non-vehicular transportation. This separated and divided path/trail combination is equivalent to the Divided Urban Pathway shown in the current Pima County and City of Tucson standards.

Enhanced Bicycle/Pedestrian Corridor

Enhanced Bicycle/Pedestrian Corridors are a special designation for areas where the ability to link regional and community destinations via non-vehicular transportation modes needs to occur on city streets in denser, mixed-use areas. Enhanced Bicycle/Pedestrian Corridors

generally follow existing local or collector streets that carry a relatively low volume of automobile traffic. They are intended to enhance safety and be attractive corridors that encourage bicycle and pedestrian use. Essential improvements include continuous bicycle lanes and continuous sidewalks with ramps. Landscape plantings, street furniture, transit shelters (where appropriate), and public art should also be included along these corridors. Tucson's Mountain Avenue was developed as a prototype for this type of corridor.

Bike Boulevard

Bike Boulevards are corridors that typically follow a local street or streets with a low volume of automobile traffic. Local automobile traffic is allowed on these streets but traffic controls are designed to give priority to bicycles. Features such as TOUCAN crossings (see Glossary and page 82 for information on TOUCANs) signaling systems are used at intersections where appropriate. Bike boulevards are predominantly a transportation improvement and are usually funded using transportation dollars; however, they are discussed in this plan because they are a valuable component of the trail system so should also be considered for trails funding.

Trails Parks

Trails Parks are large, primarily desert open space properties located in the developed or developing areas of the region to provide convenient access to trails-focused recreation. Trails parks contain multiple looped trails and a variety of trail experiences and amenities. Locating trails parks in developed areas provides convenient access to trails for a large number of users.

Supporting Elements

Trailheads, Entry Nodes, and Boundary Access Points

There are several types of improved access points which ensure public access to the path and trail network while enhancing safety and user experiences. Most importantly, the overall success of a trail/path system largely depends on the ease with which people can access the facilities, either by walking, riding or biking from home or by driving to convenient, safe, and well-equipped trailheads.

Plan Elements

Main Elements

- Trails
- Singletrack Trails
- Paths
- Greenways
- River Parks
- Enhanced Bicycle/Pedestrian Corridors
- Bicycle Boulevards
- Trails Parks

Supporting Elements

- Trailheads, Entry Nodes, and Boundary Access Points
- Crossings
- Signs
- Pedestrian Districts
- Pedestrian Activity Areas

The types of access points in the Pima Regional Trail System are Trailheads, Entry Nodes, and Boundary Access Points.

Standard Trailhead

Trailheads are located along all types and levels of trail and path corridors. They provide parking spaces, as well as non-vehicular access to local and regional destinations and open space areas. There are two proposed Standard Trailheads: large and small. They can be located within neighborhood, community, or trails parks or can be built as separate facilities. (See the Standards section for more information.) A Standard Trailhead provides trail and path users with convenient parking, informational signs, and other amenities associated with a jumping off point for the path and trail system.

Trailhead With Equestrian Facilities

There are two proposed sizes of Trailheads with Equestrian Facilities: large and small. These facilities provide features for equestrian uses as well as other trailhead parking and amenities. These facilities can be located along all classifications of unpaved trail corridors.

Neighborhood Equestrian Park and Trailhead

The combined Neighborhood Equestrian Park and Trailhead features a trailhead with additional equestrian amenities suitable for a park located in an equestrian neighborhood. Tucson's Ormsby Park's planned facility is an example of this type of park. Certain areas of Pima County currently have, or are likely to have, equestrian privileges where residents can keep horses on their property. This combined park and trailhead category provides trail access while also enhancing these areas by providing close-to-home facilities for riding and training horses, as well as serving as a location for small scale equestrian events and activities.

Entry Nodes

Entry Nodes are developed access areas along all types of path and trail corridors that serve to encourage and welcome neighborhood and local pedestrian, equestrian, and bicycle access to the path/trail system. They provide minimal amenities, most importantly trail system signs. They should be located at approximately one-quarter-mile intervals along corridors, a distance typically cited as a reasonable walking distance to a destination. Entry nodes typically do not include parking facilities, but could have up to five standard size spaces depending on needs and circumstances. Because there would be numerous nodes using this spacing recommendation, they are not mapped. A concept sketch is provided in the Trailheads,

Entry Nodes, and Boundary Access Points standards section.

Boundary Access Points

Boundary Access Points are the smallest, most basic entry point to the natural resource areas surrounding Tucson. They are generally a four-foot wide gap in the boundary fence with a low cross bar and small trail sign. Parking is not provided. The small fence gap and bar prohibit access by motorized vehicles.

Crossings

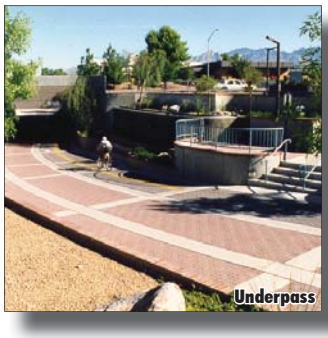
A critical aspect of any trail plan is how it interfaces with street, drainage, and utility infrastructure at crossings. Incorrectly addressing these crossings can create a sense of discomfort from users that would discourage them from using an otherwise well-connected trail system. Therefore, the points at which paths and/or trails overlap or intersect with streets, washes, rivers, and utility corridors require special attention.

The Master Plan identifies two crossings types:

- Grade-separated Crossings
- Enhanced At-grade Crossings

Grade-separated Crossings

Grade-separated crossings typically occur when a road bridges over a path or trail following a river or other linear corridor. Where possible, paths and trails should be routed to this type of crossing, where a bridge or culvert already exists, or where one is feasible in the future, especially where a trail crosses a major arterial. There are several types of grade-separated crossings that are discussed in more detail in the standards section of this chapter: Bridge Underpasses, Pedestrian Underpasses, Shared Bicycle/Pedestrian Bridge Overpasses, and Land Bridges.


Underpass

Enhanced At-grade Crossings

Where opportunities for grade-separated crossings are limited or nonexistent, and/or where heavy equestrian traffic is expected, special design considerations can be made for at-grade crossings. Special trail crossing treatments can create a greater sense of security, comfort, and convenience for equestrians, as well as all users. These treatments are considerably less costly than grade-separated crossings and provide a greater opportunity to be used more frequently. They can occur at street intersections, as well as mid-block crossings. Various options are detailed in the standards section.

Signs

There are several categories of signs that are typically associated with a trail system. They range from large-scale signs announcing entrances to parks and trailheads to small-scale feature ID or interpretive signs. A

coordinated system of wayfinding gives users needed information while providing opportunities for systemwide "branding" and education. Sign guidelines are provided at the end of the standards section.

Pedestrian Districts and Activity Areas

Since trails and paths tend mostly to follow significant physical features in the landscape, they provide only a portion of the region's non-vehicular mobility routes. In more urbanized areas, the ability to move about without a vehicle will depend upon an interconnected system of sidewalks and/or pedestrian routes. Current development standards typically require sidewalks be constructed, but more can be done, particularly in areas where high pedestrian traffic is expected. This plan builds upon the work done in the Pima Association of Governments *Regional Pedestrian Plan* (July 2000) which identified several pedestrian area designations: Pedestrian Districts; Activity Corridors; Activity Centers; and, Transit Routes. It also corresponds to the *Downtown Pedestrian Implementation Plan* (1996), a plan with projects and guidelines to create a pedestrian-friendly Downtown environment.

For this document, these four destinations were simplified to two and focused more on geographic areas or hubs, rather than pedestrian corridors. The two are:

- Level 1: Pedestrian Districts
- Level 2: Pedestrian Activity Areas

Within the urbanized areas of Pima County, it is recognized that certain areas generate high volumes of pedestrian activity due to, typically, unusually high concentrations of employment, commercial activity, residents, or city services. Two Pedestrian Districts, the University of Arizona and the Tucson City Center, were identified within the City of Tucson's urban core area. Pedestrian Activity Areas were identified in places that generated high employment and/or commercial activity. Several Pedestrian Activity Areas were identified within Tucson, as well as within each of the surrounding jurisdictions of South Tucson, Marana, Oro Valley, and Sahuarita.

A Pedestrian Latent Demand Assessment was used to predict where these pedestrian districts or activity areas are located throughout the region. This tool is a simplified version of models used to determine pedestrian latent demand which estimates potential pedestrian activity along segments of roadway corridor, based upon the frequency and proximity of adjacent trip destinations (parks, schools, employment and trailheads) and origins (residential). The model uses much of the same socio-economic data as that used in motor vehicle and transit travel forecasting, but with adjustments based on specific travel characteristics

of the pedestrian. The model assumes that there are no constraints to pedestrian travel other than distance, applying an "if you build it they will come" philosophy to determining potential pedestrian activity within an area.

Areas of highest population density and with the greatest mix of uses have the highest pedestrian latent demand and those areas with lowest density and single land uses have the lowest latent demand. In areas where there are great concentrations of existing or potential pedestrians, the pedestrian environment should be enhanced to encourage even more use of alternative transportation modes. See the Appendix for the pedestrian latent demand assessment matrix that was used to determine the Pedestrian Districts and Pedestrian Activity Areas. A general area's score is equated to guidelines associated with Pedestrian Districts and Pedestrian Activity Areas.

Level 1 Pedestrian Districts

- Downtown Tucson
- University of Arizona Campus

Level 2 Pedestrian Activity Areas

- Marana Central Business District
- Oro Valley Central Business District
- Sahuarita Central Business District
- South Tucson Central Business District
- Pima Community College East and West
- Park Place
- Williams Center
- Tucson Medical Center
- Kino Sports Complex
- The Bridges
- Tucson Mall
- Foothills Mall
- Arizona Pavilions

User Needs Accommodation

During this planning process, focus group meetings were held with a variety of users and interest groups. These meetings helped to clarify the particular needs and wants of the users. The following table describes the thought process used to ensure that all types of path and trail users are accommodated in the Pima Regional Trail System.

USER NEED ACCOMMODATION

User/Need	Paved Surface	Natural Surface	Long Distance (> 3 miles)	Grade Separations	Short Distance (< than 3 miles)	Natural Experience	Best Accommodation
Equestrians	☐	■	■	■	☐	◻	• Trails • River Parks trails • Singletrack Trails
Hikers	◻	■	◻	■	◻	■	• Singletrack Trails • Trails • 4-foot shoulder of path
Mountain Bikers	◻	■	◻	■	◻	■	• Singletrack Trails • Trails • 4-foot shoulder of path
Roller Bladers	■	☐	■	■	◻	◻	• ;Paths
Trail Runners	☐	■	■	■	◻	◻	• Singletrack trails • 4-foot shoulder of path
Walkers/Joggers	◻	◻	◻	■	◻	◻	• All facilities including Pedestrian Districts and Areas
Physically Challenged	■	◻	◻	■	◻	◻	• All paths and sidewalk facilities throughout region
Street Cyclists	■	☐	◻	◻	◻	◻	• All paths, Bike Boulevards, Enhanced Bicycle/ Pedestrian Corridor

KEY:
■ Preferred ◻ Acceptable ☐ Not Acceptable

D. Standards

The following standards were developed to provide the jurisdictions with a set of details, drawings, and tables that can be used to guide more consistent development of the regions' trails, non-motorized unpaved and paved paths, pedestrian areas, enhanced bicycle and pedestrian corridors, access areas, and special crossings. These facilities are intended to improve recreational opportunities and connectivity. They include those in parks, along drainage features, other open space areas and along vehicular routes. Detailed information is provided for individual facilities like a trail, as well as corridor width standards for combined facilities such as a Greenway or River Park, which combines both paved paths and unpaved trails within one corridor. Additionally, specific materials, widths, and clearances are identified. These standards do not, however, include specific standards for on-street bicycle facilities.

Current standards vary somewhat by jurisdiction. These proposed standards are recommended for use by all the jurisdictions, unless there are more restrictive standards that apply.

Paths and trails always occur within a particular setting. Therefore, in addition to standards for a path and/or trail, the "corridor standards" below identify the IDEAL SPATIAL RELATIONSHIPS of paths and trails to each other, to roadways, buildings, river edges, walls, fences, property lines, and other features. The recommended corridor width is a combination of the path and/or trail, available right of way (right of way width minus roadway pavement and median width), easements, tracts and/or setbacks. Every effort should be made to maintain these corridor widths to provide user safety and comfort, a respect for the environment, and respect for neighbors. It is likely that these recommended corridor widths can be accommodated within the available right of way and land already set aside for utility easements, building, and landscape setbacks.

Trail and path users are particularly sensitive to their adjacency to roadways. The corridor standards, therefore, strive to enhance the user's sense of security and comfort along roadways by increasing the setback between the road and trail/path where the roadways are widest, busiest and noisiest. Wider setbacks are preferred but adding on-street parking or vertical barriers such as railings or seatwalls can also provide the desired sense of security. Narrower setbacks are acceptable along quiet neighborhood streets. Therefore, the recommended corridor width will vary based upon the type of roadway and the type of trail/path. When available corridor widths are extremely narrow, the path and/or trail width should meet the standard and the landscape area standard should be reduced.

The Standards Section is organized as follows:

Main Elements

- Trails and Trail Corridors
- Singletrack Trails and Trail Corridors
- Paths and Path Corridors
- Path and Trail Corridors
- Enhanced Bicycle/Pedestrian Corridors
- Bicycle Boulevards
- Trails Parks

Supporting Elements

- Trailheads, Entry Nodes, and Boundary Access Points
- Crossings
- Signs
- Pedestrian Districts
- Pedestrian Activity Areas

Trails

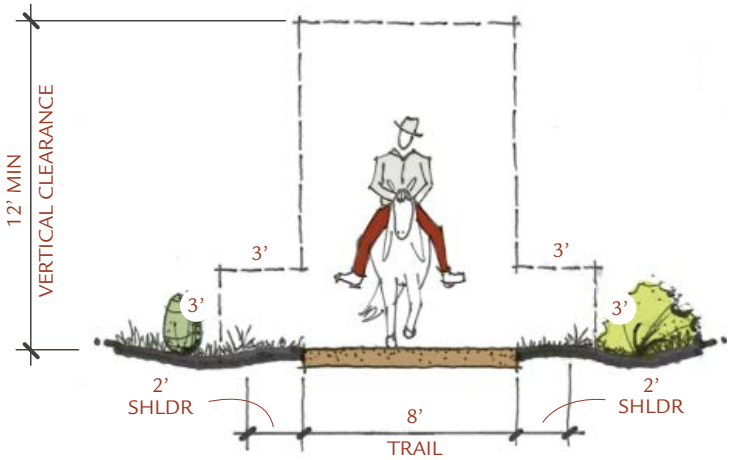
Trails are used by multiple user groups such as mountain/recreational bicyclists, walkers, runners, hikers, equestrians, and others who prefer a soft, natural surface rather than a hard paved surface. Trails connect local and regional destinations and neighborhoods within a larger trail network. They are located in all types of situations: along roadways, washes, utility corridors, and within small and large open space areas. They may be used by small maintenance and emergency response vehicles.

DESIGN CONSIDERATIONS

Sight Lines. Lay out trails to maximize visibility of approaching trail users, thereby increasing reaction time and minimizing conflicts.
Grades. Lay out trails to minimize extreme slopes and grade changes thereby allowing users to stay under control at all times. A variety of slopes creates a more interesting and positive experience.
Alignment. Vary the trail alignment to create an interesting variety of views and to avoid specimen plants.
Drainage. Provide drainage control techniques that avoid any drainage flow above or across a trail.
Setbacks. Landscape setback standards are expressed as minimums. They should be as wide as possible.
Plant Preservation. Care should be given during trail construction to preserve existing vegetation in place.
Landscape. Landscaping is an opportunity to highlight and enhance regional and local character, therefore, landscaping shall be native and/or near native. Water harvesting techniques should be integrated into design wherever possible. Refer to local jurisdictions for specific approved plant lists.
Transitions. For new and existing paths/trails, where they intersect with roads with or without bike lanes, provide pedestrian- and bicycle-friendly transitions between the two facilities such as a ramp or curb cut. Example, don't end a path/trail at a sidewalk with a drop-off and not provide a smooth transition to the sidewalk.

Width	Eight feet
Shoulder	Minimum two-foot soft/mowed/six-inch max. height herbaceous plants/native soil
Vertical Clearance	12-foot minimum
Side Clearance	No vegetation or obstacles within a three-foot high by three-foot wide space each side. Three-foot minimum to signs, benches, or any vertical element.
Thorny Plants	Minimum 10-foot clearance between trail edge and newly planted thorny plants. Align trail to avoid existing thorny plants wherever possible to minimize their removal.
Clearance to Trees	Minimum six feet (provide minimum ten-foot clearance between trees and sewer lines)
Valve Boxes	Install at least 5 feet from edge and flush with grade

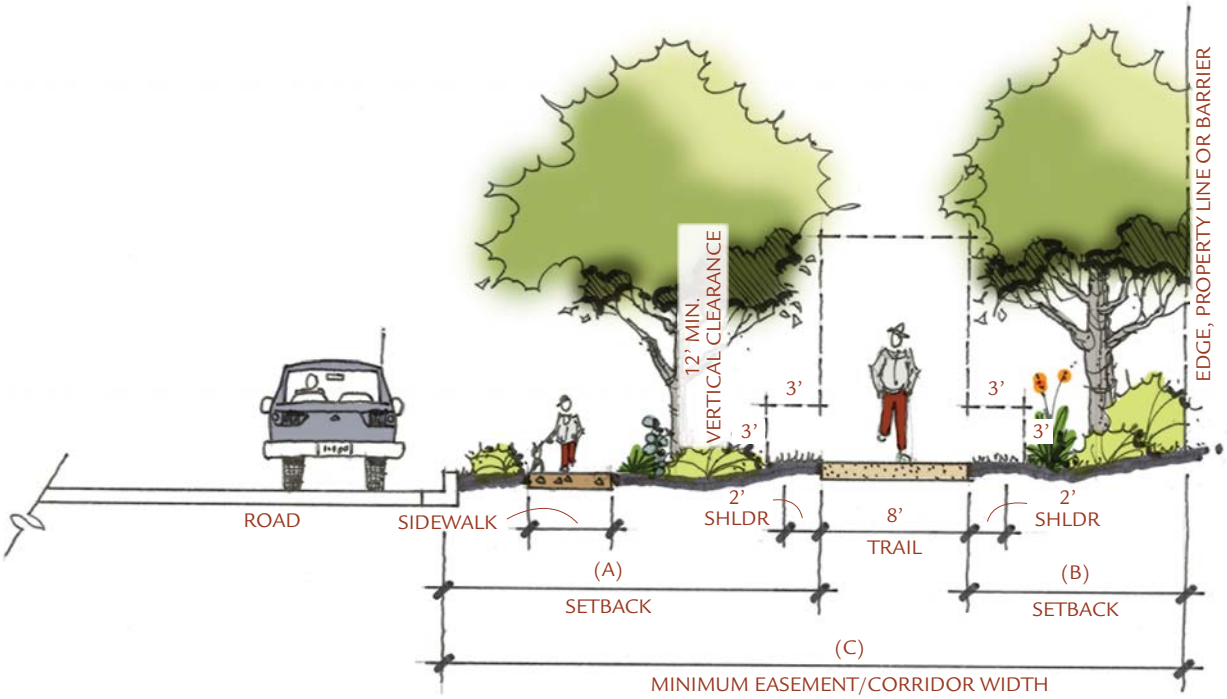
Turning Radius	12-foot minimum
Surface Material	Compacted (imported decomposed granite or native soil) to minimize skidding
Running Grade:	<5% = 1500′ 5-8% = 800′-1500′ 8-10% = 500′-800′ >10% = max 500′
Cross Slope	Two percent (5 percent maximum; 4 percent maximum at paved crossings)
Trees and Shrubs	Trees: One tree per every 15 feet along both sides of trail Shrubs: Two shrubs per tree
Barriers	New barriers shall be wildlife friendly, providing a minimum 18-inch gap between the bottom horizontal rail and finish grade.



Trail Corridor Adjacent to a Road

Transportation Classification	Minimum Setback From Edge of Road Pavement and Trail Edge[1] (A)	Trail Tread Width	Minimum Setback From Path Edge to Adjacent Barrier Edge or Property Line[2] (B)	Minimum Trail Easement/Corridor Width[3] (C) = (A) + 8' + (B)
Freeway/Expressway (over 55 MPH)	30'	8'	12'	50'
Major/Minor Arterial and Collector Street (30-55 MPH)	20'	8'	12'	40'
Local Street (25 MPH and under)	6'	8'	6'	20'

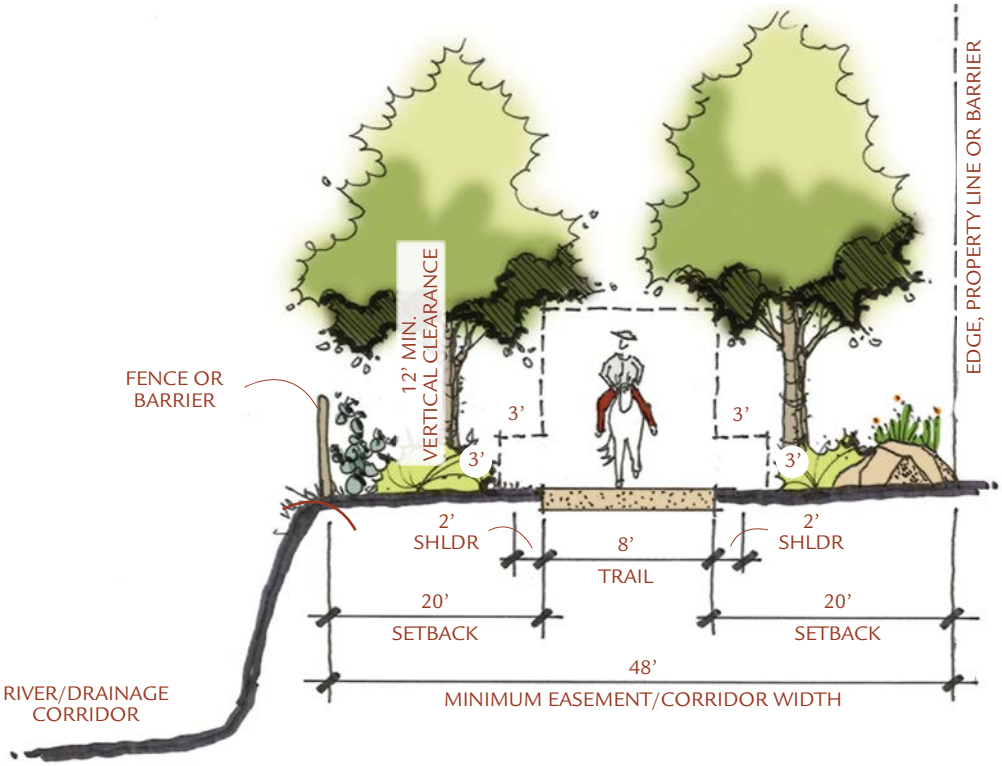
1. Includes two-foot shoulder, three-foot high by three-foot wide vegetation clearance and sidewalk if required.
2. Increase width as needed in areas of steep or difficult terrain to accommodate switchbacks, avoidance of obstacles, etc.
3. If minimum corridor width is not available, priority should be given first to providing the distance between the edge of road pavement and the trails, second to the distance from the trail edge to the adjacent barrier, edge or property line defined as a fence, wall, building, etc.



Trail Corridor Adjacent to a River or Drainageway

Trail Width	Setback From Trail Edge to Adjacent Barrier Edge or Property Line[1]	Minimum Trail Easement/Corridor Width[2] = 8' + (2 x 20')
8'	20'	48'

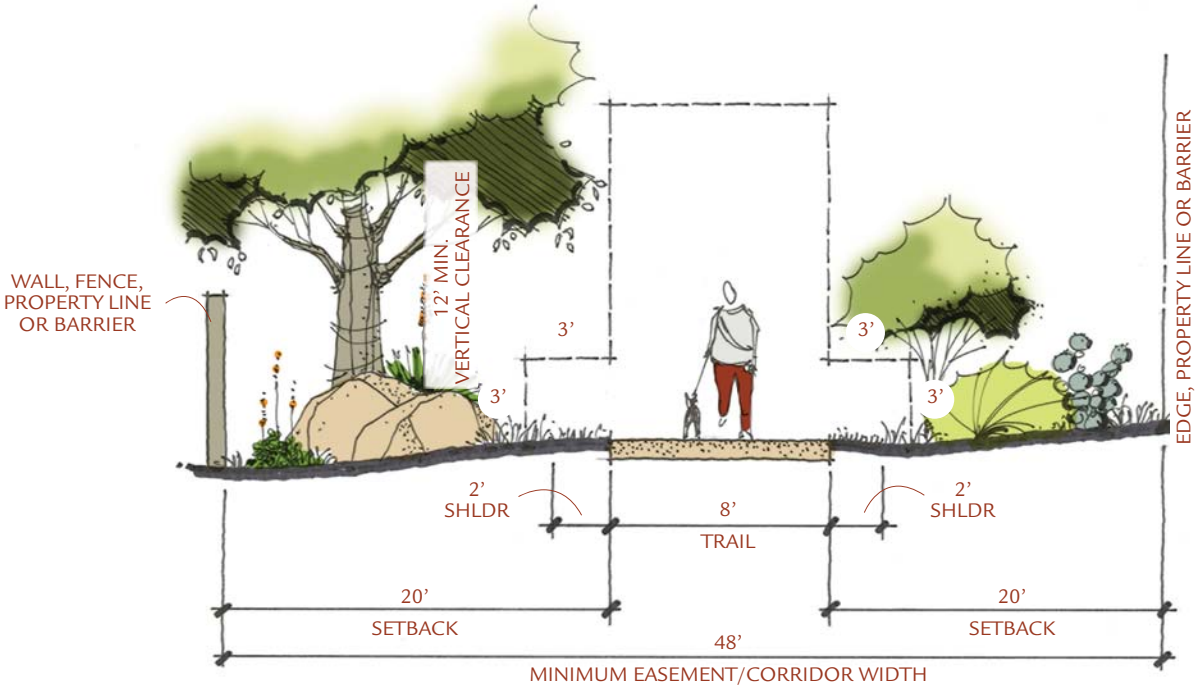
1. Includes two-foot shoulder and three-foot high by three-foot wide vegetation clearance each side.
2. Increase width as needed in areas of steep or difficult terrain to accommodate switchbacks, avoidance of obstacles, etc



Trail Corridor in an Open Space/Greenway (other than a River or Drainageway)

Trail Width	Setback From Trail Edge to Adjacent Barrier Edge or Property Line[1]	Minimum Trail Easement/Corridor Width[2] = 8' + (2 x 20')
8'	20'	48'

1. Includes two-foot shoulder and three-foot high by three-foot wide vegetation clearance each side.
2. Increase width as needed in areas of steep or difficult terrain to accommodate switchbacks, avoidance of obstacles, etc



Singletrack Trails

These trails are predominantly located within preserved open space, washes, mountainous areas, non-developed, or protected areas. However, they are also located wherever a narrow trail is desired, including in urban and suburban areas. They are built with greater sensitivity to the existing natural environment and are therefore narrower than the 8-foot trail used in more developed parts of the system, but still should accommodate multiple user groups who prefer an unpaved surface. Singletrack Trails should be no wider than they need to be, with two to three feet being the recommended width range.

DESIGN CONSIDERATIONS

Sight Lines. Lay out trails to maximize visibility of approaching trail users, thereby increasing reaction time and minimizing conflicts.

Grades. Lay out trails to minimize extreme slopes and grade changes thereby allowing users to stay under control at all times. A variety of slopes creates a more interesting and positive experience.

Alignment. Vary the trail alignment to create an interesting variety of views and to avoid specimen plants.

Drainage. Provide drainage control techniques that avoid any drainage flow above or across a trail.

Setbacks. Landscape setback standards are expressed as minimums. They should be as wide as possible.

Plant Preservation. Care should be given during trail construction to preserve existing vegetation in place.

Alignment. The best horizontal alignment (how a trail looks from above) includes simple curves rather than straight sections with sharp turns.

Passing Areas. When in steep terrain, incorporate passing areas of 5 feet wide by 10 feet long in natural openings in the landscape.

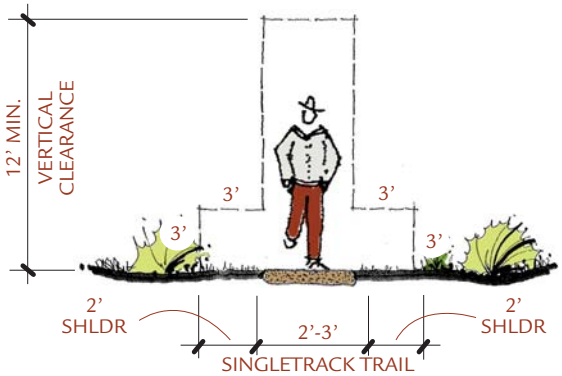
Switchbacks. Where more than one switchback is necessary to climb steep grades, minimize the physical and visual impact by not stacking switchbacks along a slope face; spread them out.

Landscape. Landscaping shall be native. Water harvesting techniques should be integrated into designs wherever possible.

Transitions. For new and existing paths/trails, where they intersect with roads with or without bike lanes, provide pedestrian- and bicycle-friendly transitions between the two facilities such as a ramp or curb cut. Example, don't end a path/trail at a sidewalk with a drop-off and not provide a smooth transition to the sidewalk

Width	Two to three feet
Shoulder	Minimum two-foot soft/mowed/six-inch maximum height herbaceous plants/native soil
Vertical Clearance	12-foot minimum
Side Clearance	No vegetation or obstacles within a three-foot high by three-foot wide space each side. Three-foot minimum to signs, benches, or any vertical element.
Thorny Plants	Minimum 10-foot clearance between trail edge and newly planted thorny plants. Align trail to avoid existing thorny plants wherever possible to minimize their removal.
Clearance to Trees	Minimum six feet (provide minimum ten-foot clearance between trees and sewer lines)
Valve Boxes	Install at least 5 feet from edge and flush with grade

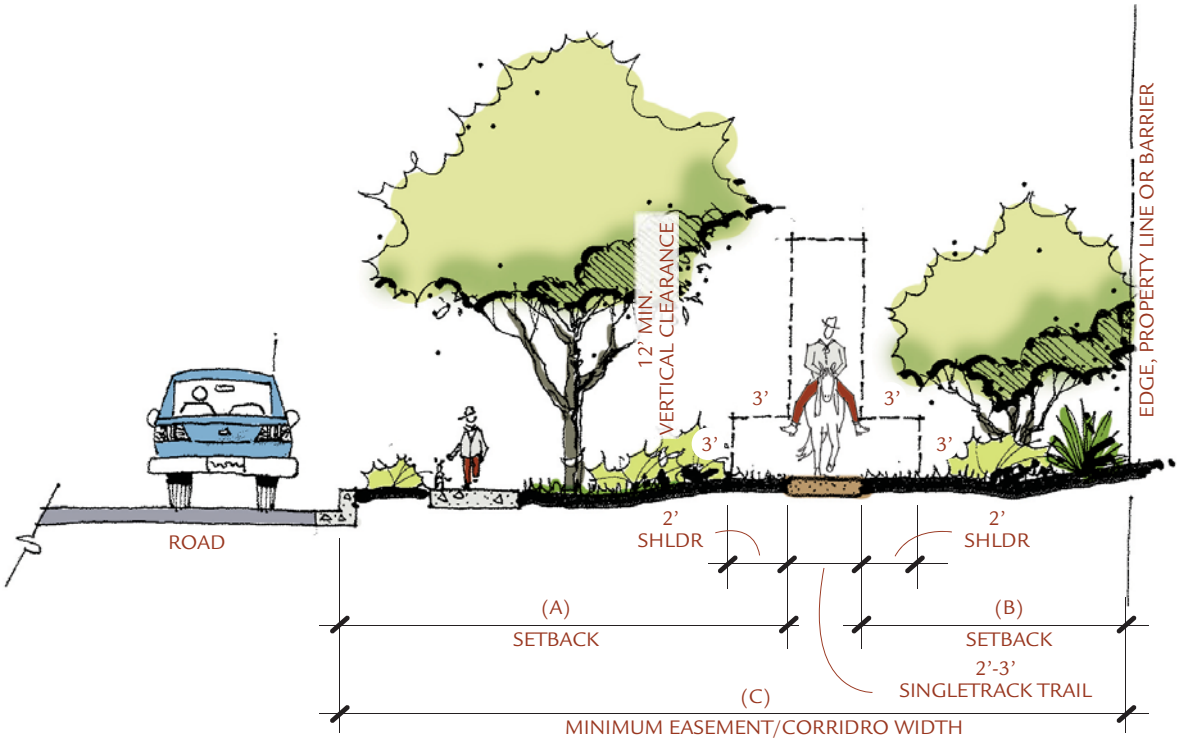
Turning Radius	Five-foot minimum
Surface Material	Compacted native soil
Running Grade	<5% = 1500' 5-8% = 800'-1500' 8-10% = 500'-800' >10% = max 500'
Cross Slope	Two percent (5 percent maximum; 4 percent maximum at paved crossings)
Clearance to Trees	Strive to maintain six feet between trail edge and tree trunk. Cut trees and shrubs back to the trunk. To create more visual interest and slow users down, don't cut all vegetation back exactly the same distance.
Barriers	New barriers shall be wildlife friendly, providing a minimum 18-inch gap between the bottom horizontal rail and finish grade.



Singletrack Trail Corridor Adjacent to a Road

Transportation Classification	Minimum Setback From Edge of Road Pavement and Trail Edge[1] (A)	Singletrack Trail Tread Width	Minimum Setback From Path Edge to Adjacent Barrier Edge or Property Line[2] (B)	Minimum Trail Easement/Corridor Width (C) = (A) + (2' to 3') + (B)
Freeway/Expressway (over 55 MPH)	30'	2'-3'	12'	44'-45'
Major/Minor Arterial and Collector Street (30-55 MPH)	20'	2'-3'	12'	34'-35'
Local Street (25 MPH and under)	6'	2'-3'	6'	14'-15'

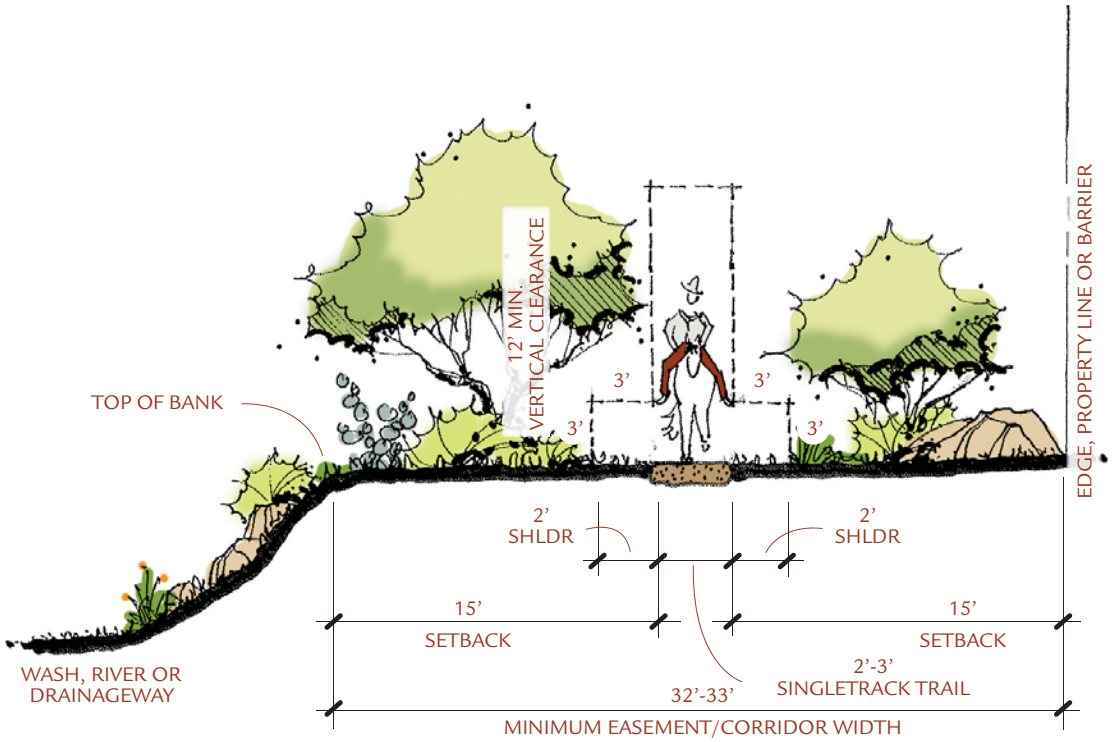
1. Includes two-foot shoulder, three-foot high by three-foot wide vegetation clearance and sidewalk if required.
2. Increase width as needed in areas of steep or difficult terrain to accommodate switchbacks, avoidance of obstacles, etc.



Singletrack Trail Corridor Adjacent to a River or Drainageway

Singletrack Trail Tread Width	Setback From Trail Edge to Top of Adjacent Barrier Edge or Property Line[1]	Minimum Trail Easement/Corridor Width[2] = (2' to 3') + (2 x 15')[2]
2'-3'	15'	32'-33'

1. Includes two-foot shoulder and three-foot high by three-foot wide vegetation clearance each side.
2. Increase width as needed in areas of steep or difficult terrain to accommodate switchbacks, avoidance of obstacles, etc.

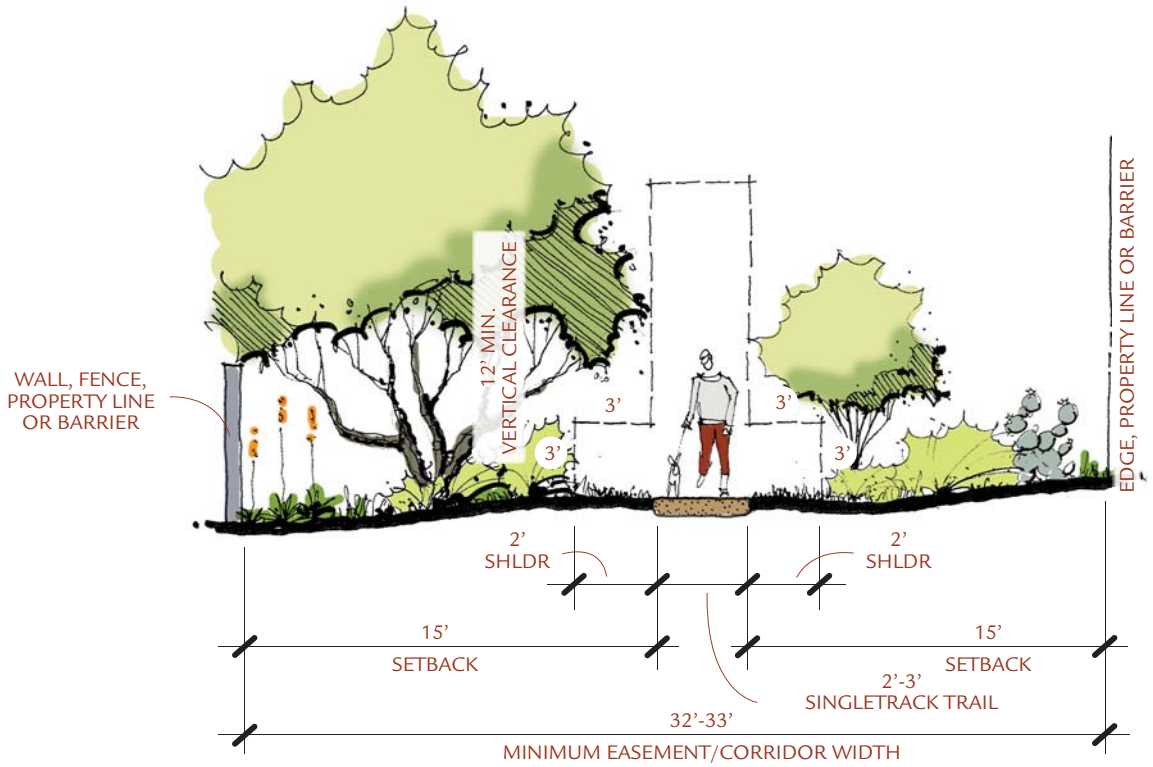


Singletrack Trails

Singletrack Trail Corridor in an Open Space/Greenway (other than a river or drainageway)

Singletrack Trail Tread Width	Setback From Trail Edge to Adjacent Barrier Edge or Property Line[1]	Minimum Trail Easement/Corridor Width[2] = (2' to 3') + (2' x 15')[2]
2'-3'	15'	32'-33'

1. Includes two-foot shoulder and three-foot high by three-foot wide vegetation clearance each side.
2. Increase width as needed in areas of steep or difficult terrain to accommodate switchbacks, avoidance of obstacles, etc.



Paths

This paved facility is used by bicyclists, pedestrians, joggers, strollers, wheelchair users, in-line skaters, other non-motorized users, and anyone wanting a smooth and consistent surface. Paths are signed for various users, are ADA accessible (when less than five percent grades), and may also be used by small maintenance and emergency response vehicles. Paths include an adjacent four-foot unpaved shoulder on one side to provide greater options for the diversity of non-motorized users from roller bladers, who prefer a paved surface, to joggers, who prefer an unpaved surface.

DESIGN CONSIDERATIONS

Corridor Width. Secure as broad a corridor as possible to enhance the user experience.

Landscape. Landscaping is an opportunity to highlight and enhance regional and local character, therefore, landscaping shall be native and/or near native. Water harvesting techniques should be integrated into design wherever possible. Refer to local jurisdictions for specific approved plant lists.

Respite Areas. Provide respite areas with seat walls, plazas, and other design features at logical locations along path corridors. Compliment amenities at entry nodes and trailheads.

Driveway Crossings. Limit driveway path crossings to a maximum of every quarter-mile.

Signs. Include high-quality signs and interpretive exhibits where appropriate. Sign vehicular crossings of the paths with stop and warning signs to help ensure user safety.

Freeway Adjacency. Provide a minimum four-foot high landscaped berm between freeways and paths to enhance the feeling of separation.

Connectivity. Enhance connectivity to community features, such as parks, schools, shopping, offices, and neighborhoods by supplementing the recommendations of this plan and provide additional linked routes and connections.

Sight Lines. Lay out trails to maximize visibility of approaching trail users, thereby increasing reaction time and minimizing conflicts.

Setbacks. Landscape setback standards are expressed as minimums. They should be as wide as possible.

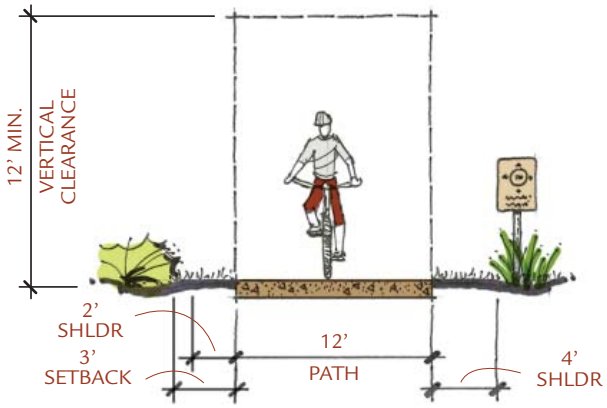
References. See AASHTO's 1999 *Guide for the Development of Bicycle Facilities,* page 33, "Shared Use Paths" for more information.

Transitions. For new and existing paths/trails, where they intersect with roads with or without bike lanes, provide pedestrian- and bicycle-friendly transitions between the two facilities such as a ramp or curb cut. Example, don't end a path/trail at a sidewalk with a drop-off and not provide a smooth transition to the sidewalk.

Width	Twelve feet paved plus four feet unpaved on one side.
Shoulder	Minimum two-foot soft/mowed on side opposite unpaved four feet
Vertical Clearance	12-foot minimum
Side Clearance	Three feet high by three feet wide space on side of four-foot shoulder for vegetation or obstacles. Three-foot minimum to signs, benches, or any vertical element.
Thorny Plants	Minimum 10-foot clearance between trail edge and newly planted thorny plants. Align trail to avoid existing thorny plants wherever possible to minimize their removal.
Clearance to Trees	Minimum six feet (provide minimum ten-foot clearance between trees and sewer lines)
Bicycle Design Speed	20 mph; 30 mph when downgrade exceeds 4% or with strong prevailing tailwinds
Surface Material	Concrete or asphalt for paved portion; one-quarter inch minus decomposed granite for unpaved portion
Barriers	New barriers shall be wildlife friendly, providing a minimum 18-inch gap between the bottom horizontal rail and finish grade.

Valve Boxes	Install at least 5 feet from edge and flush with grade
Running Grade	6% up to 800 feet 7% up to 400 feet 8% up to 300 feet 9% up to 200 feet 10% up to 100 feet 11% and greater up to 50 feet
Horizontal Alignment	Refer to AASHTO Guidelines. Gentle meander acceptable with minimum 200-foot radius.

1 Anything above 5% is not considered accessible per ADA. Grades above 5% should only occur where terrain dictates.

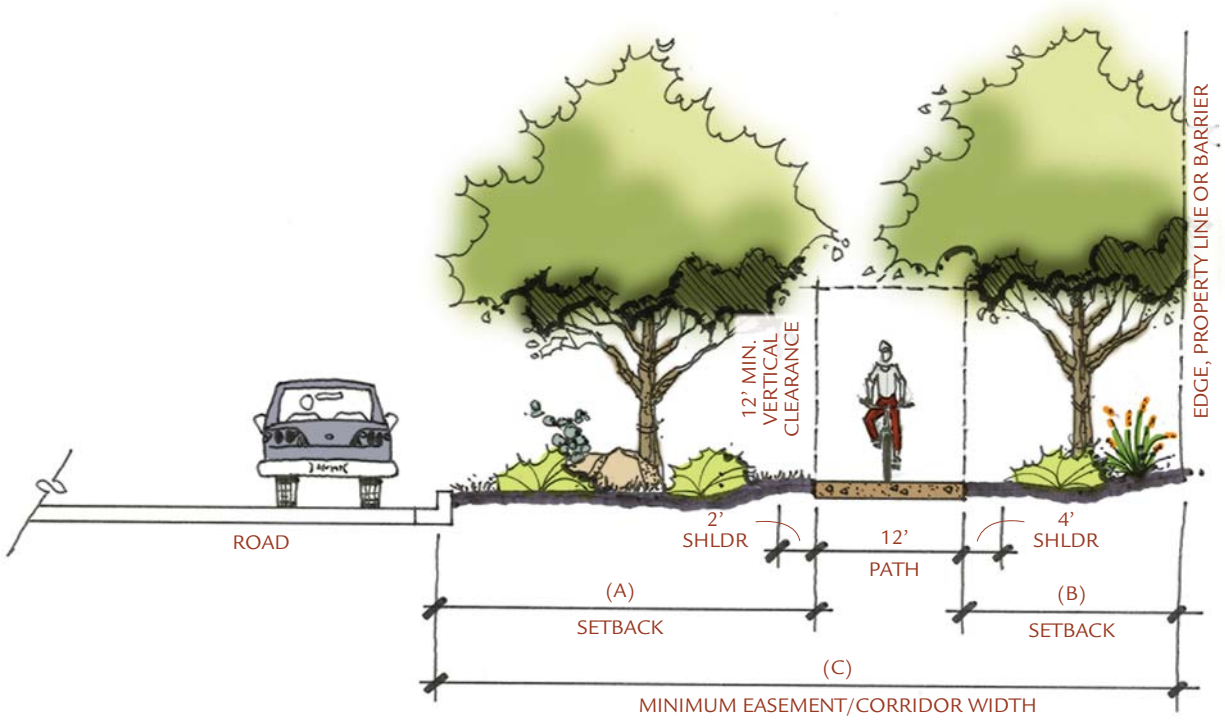


Path Corridor Adjacent to a Road

Transportation Classification	Minimum Setback From Edge of Road Pavement to Path Edge[1] (A)	Path Width[2]	Minimum Setback From Path Edge to Adjacent Barrier Edge or Property Line[3] (B)	Minimum Path Easement/Corridor Width[4] (C) = (A) + 12' + (B)
Freeway/Expressway (over 55 MPH)	30'	12'	12'	54'
Major/Minor Arterial and Collector Street (30-55 MPH)	12'	12'	12'	36'
Local Street (25 MPH and under)	6'	12'	6'	24'

1. Includes two-foot shoulder/vegetation clearance.
2. Current minimum path width standards vary by jurisdiction in Pima County i.e., Pima County and the City of Tucson standard 12', the Town of Oro Valley standard is 10'. Maintain minimum path standard per jurisdiction.
3. Includes four-foot shoulder.
4. Increase width as needed in areas of steep or difficult terrain to accommodate switchbacks, avoidance of obstacles, improve sight lines, etc.

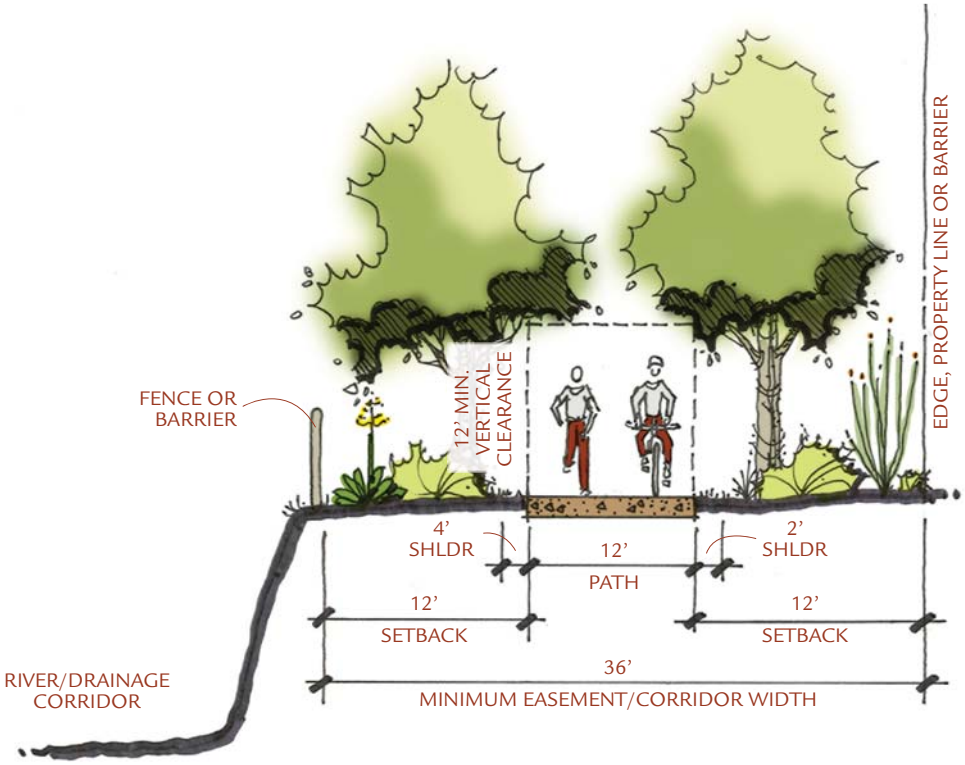
NOTE: Where paths parallel a road, consider deleting the separate sidewalk, thereby creating a larger landscape buffer between the path and road and decreasing costs.



Path Corridor Adjacent to a River or Drainageway

Path Width[1]	Setback From Path Edge to Adjacent Barrier Edge or Property Line[2]	Minimum Path Easement/Corridor Width[3] = 12' + (2 X 12')
12'	12'	36'

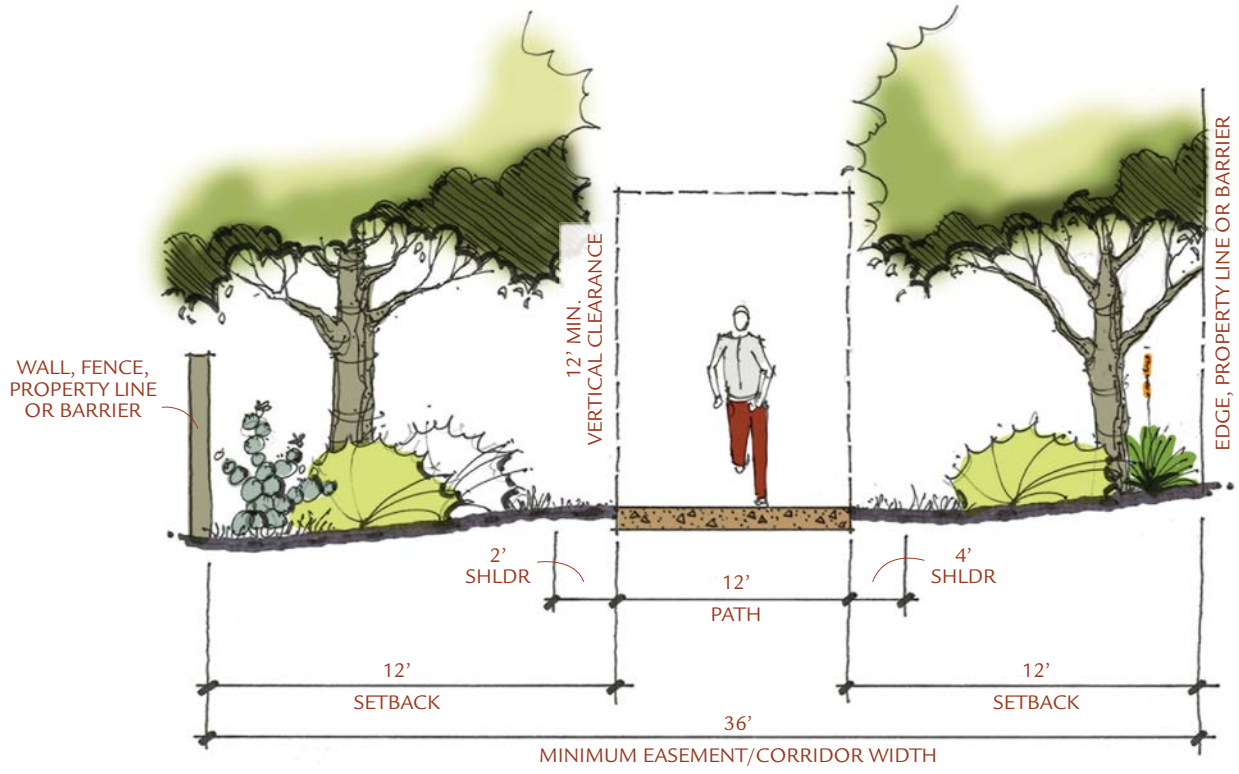
1. Current minimum path width standards vary by jurisdiction in Pima County, i.e. Pima County and the City of Tucson standard is 12', the Town of Oro Valley standard is 10'. Maintain minimum path standard per jurisdiction.
2. Includes four-foot wide shoulder on the drainageway side and two-foot shoulder on the other side.
3. Increase width as needed in areas of steep or difficult terrain to accommodate switchbacks, avoidance of obstacles, improve sight lines, etc.



Path Corridor in an Open Space/Greenway (other than a river or drainageway)

Path Width[1]	Setback From Path Edge to Adjacent Barrier Edge or Property Line[2] (B)	Minimum Path Easement/Corridor Width[3] =12' + (2 X 12')
12'	12'	36'

1. Current minimum path width standards vary by jurisdiction in Pima County, i.e. Pima County and the City of Tucson standard is 12', the Town of Oro Valley standard is 10'. Maintain minimum path standard per jurisdiction.
2. Includes four-foot shoulder.
3. Increase width as needed in areas of steep or difficult terrain to accommodate switchbacks, avoidance of obstacles, improve sight lines, etc.



River Parks

River Park corridors have a separated and divided path and trail on both sides of the river, offering the maximum opportunities for non-vehicular transportation. This separated and divided path/trail combination is equivalent to the Divided Urban Pathway shown in the current Pima County and City of Tucson standards.

DESIGN CONSIDERATIONS

Corridor Width. The minimum corridor width for River Parks is 100 feet on both river banks. However, additional space is recommended wherever possible to help enhance the quality and impact of the river park system, reduce the urban heat island effect, and allow for the restoration of the wildlife habit that once existed along the edges of the community's major watercourses.

Encroachment. New development shall not encroach into River Park corridors.

Dedication. New development adjacent to River Park corridors shall dedicate the 100-foot minimum corridor on their side of the river (or both if applicable) and construct the amenities consistent with this plan.

Design Integration. Urban design that integrates residential and commercial projects along the River Park corridor is welcome and shall be strongly encouraged. Development should not "turn its back" on River Parks, thereby creating an unsightly and undesirable condition of loading docks, service areas, and dumpsters in view of the River Parks.

Combined Public Corridor. Where opportunities occur to add publicly-owned property adjacent to River Parks, such as paralleling road right-of-way or public park, these lands should be combined in to one large public corridor.

Connectivity. Enhance connectivity to community features, such as parks, schools, commercial centers, offices, and neighborhoods by supplementing the recommendations of this plan and provide additional linked routes and connections to the River Park system.

Edge Porosity. The concept of "porosity" (see page 70) shall be integrated into River Park design, with many opportunities to enter and exit the corridor. This will enhance safety, convenience, and connectivity.

Bridges. Bridges should be as flat as possible so as not to block sight lines and enhance user safety.

Underpasses. Wherever possible, separate equestrian underpasses under bridges should be provided for safety reasons.

Landscape. Landscaping is an opportunity to highlight and enhance regional and local character, therefore, landscaping shall be native and/or near native. Water harvesting techniques should be integrated into design wherever possible. Refer to local jurisdictions for specific approved plant lists.

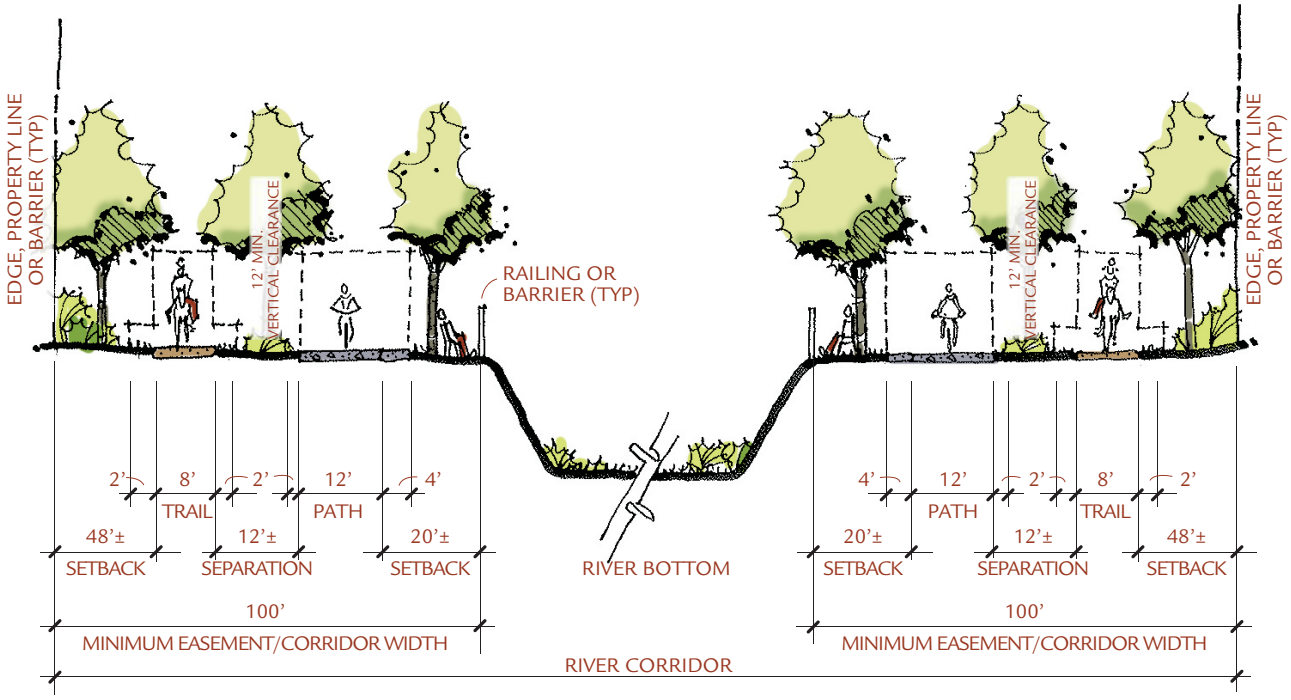
Lighting. Consider low-level, pedestrian lighting for the river parks paths and trails. If installed, consider fixtures that are solar powered, low energy use (LED), vandal resistant, and dark sky compatible.

Respite Areas. Provide respite areas with seat walls, plazas, and other design features at logical locations along River Parks. Compliment amenities at entry nodes and trailhead.

References. See Path, Trail, and Singletrack Trail Design Considerations for additional information.

Corridor Width	100 feet minimum, both river banks
Path/Trail	Path and trail corridor on both sides of river
Vertical Clearance	12-foot minimum
Side Clearance	Three feet high by three feet wide each side of trail. Paths to have a four-foot shoulder on one side and a two-foot shoulder on the other side. (See Path and Trail Standards.) 24 inches from nearest pipe rails
Thorny Plants	Minimum 10-foot clearance between trail edge and newly planted thorny plants. Align trail to avoid existing thorny plants wherever possible to minimize their removal.
Clearance to Trees	Minimum six feet (provide minimum ten-foot clearance between trees and sewer lines)
Surface Material	(see Path and Trail standards)
Design Speed	(see Path and Trail standards)
Running Grade	(see Path and Trail standards)
Horizontal Alignment	(see Path and Trail standards)
Signs	Wayfinding, directional, and interpretive
Barriers	New barriers shall be wildlife friendly, providing a minimum 18-inch gap between the bottom horizontal rail and finish grade.

RIVER PARK CORRIDOR



Greenways

Greenways are a corridor that typically features a path and trail, preserved native vegetation and/or landscape plantings, and pedestrian amenities. Greenways typically follow washes or drainageways but can also be adjacent to roads. If the greenway is along a wash, the path and trail can be together on one side (equivalent to the Divided Urban Pathway) or one on each side of the wash. Greenways are similar to River Parks except that right-of-way width is less, features are less extensive, and at-grade crossings of streets are more common.

DESIGN CONSIDERATIONS

Corridor Width. The minimum corridor width for Greenways is 50 feet. However, additional space is recommended wherever possible to help enhance the quality and impact of the greenway system, reduce the urban heat island effect, and allow for the restoration of the wildlife habit that once existed along the edges of the community's major watercourses.

Encroachment. New development shall not encroach into Greenway corridors.

Dedication. New development adjacent to Greenway corridors shall dedicate the 50-foot minimum corridor and construct the amenities consistent with this plan.

Design Integration. Urban design that integrates residential and commercial projects along the Greenway corridor is welcome and shall be strongly encouraged. Development should not "turn its back" on a Greenway, thereby creating an unsightly and undesirable condition of loading docks, service areas, and dumpsters in view of the Greenways.

Combined Public Corridor. Where opportunities occur to add publicly-owned property adjacent to Greenways, such as paralleling road right-of-way or public park, these lands should be combined in to one large public corridor.

Connectivity. Enhance connectivity to community features, such as parks, schools, commercial centers, offices, and neighborhoods by supplementing the recommendations of this plan and provide additional linked routes and connections to the Greenway.

Edge Porosity. The concept of "porosity" shall be integrated into Greenway design, with many opportunities to enter and exit the corridor. This will enhance safety, convenience, and connectivity.

Bridges. Bridges should be as flat as possible so as not to block sight lines and enhance user safety.

Underpasses. Wherever possible, separate equestrian underpasses under bridges should be provided for safety reasons.

Landscape. Landscaping is an opportunity to highlight and enhance regional and local character, therefore, landscaping shall be native and/or near native. Water harvesting techniques should be integrated into design wherever possible. Refer to local jurisdictions for specific approved plant lists.

Respite Areas. Provide respite areas with seat walls, plazas, and other design features at logical locations along River Parks. Compliment amenities at entry nodes and trailhead.

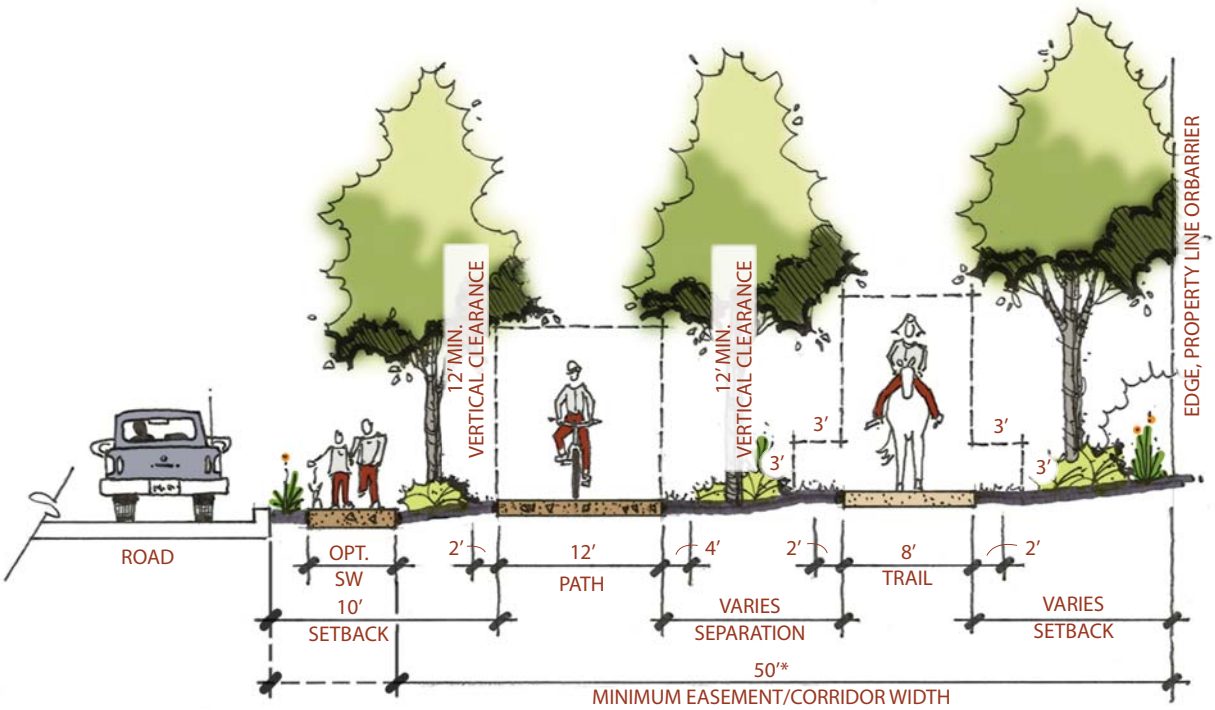
References. See Path, Trail, and Singletrack Trail Design Considerations for additional information.

Corridor Width	50 feet minimum
Path/Trail	Path and trail combined in one corridor
Vertical Clearance	12-foot minimum
Side Clearance	Three feet high by three feet wide each side of trail. Paths to have a four-foot shoulder on one side and a two-foot shoulder on the other side. (See Path and Trail Standards.) 24 inches from nearest pipe rails
Thorny Plants	Minimum 10-foot clearance between trail edge and newly planted thorny plants. Align trail to avoid existing thorny plants wherever possible to minimize their removal.
Clearance to Trees	Minimum six feet (provide minimum ten-foot clearance between trees and sewer lines)
Surface Material	(see Path and Trail standards)
Design Speed	(see Path and Trail standards)
Running Grade	(see Path and Trail standards)
Horizontal Alignment	(see Path and Trail standards)
Crossings	Limit driveway crossings to a maximum of every quarter-mile.
Signs	Wayfinding, directional, and interpretive
Barriers	New barriers shall be wildlife friendly, providing a minimum 18-inch gap between the bottom horizontal rail and finish grade.

Greenway Corridor With a Trail and Path Adjacent to a Road

Minimum Setback From Edge of Road Pavement to Path[1]	Path Width[2]	Setback Between Path and Trail[3]	Trail Tread Width	Setback From Trail Edge to Adjacent Barrier Edge or Property Line[4]	Minimum Greenway Easement/ Corridor Width[5]
10'	12'	Varies	8' 2'-3' Singletrack Trail	Varies	50'

1. Includes two-foot shoulder and optional sidewalk. Consider deleting the separate sidewalk, thereby creating a larger landscape buffer between the path and road and decreasing costs.
2. Current minimum path width standards vary by jurisdiction in Pima County, i.e., Pima County and the City of Tucson standard is 12', the Town of Oro Valley standard is ten feet. Maintain minimum path standard per jurisdiction.
3. Includes four-foot shoulder, two-foot shoulder, and three-foot high by three-foot wide vegetation clearance for the trail side.
4. Includes two-foot shoulder and three-foot high by three-foot wide vegetation clearance.
5. Minimum corridor width for Greenways is 50' unless an exception is approved by the responsible jurisdiction representative to accommodate site constraints.

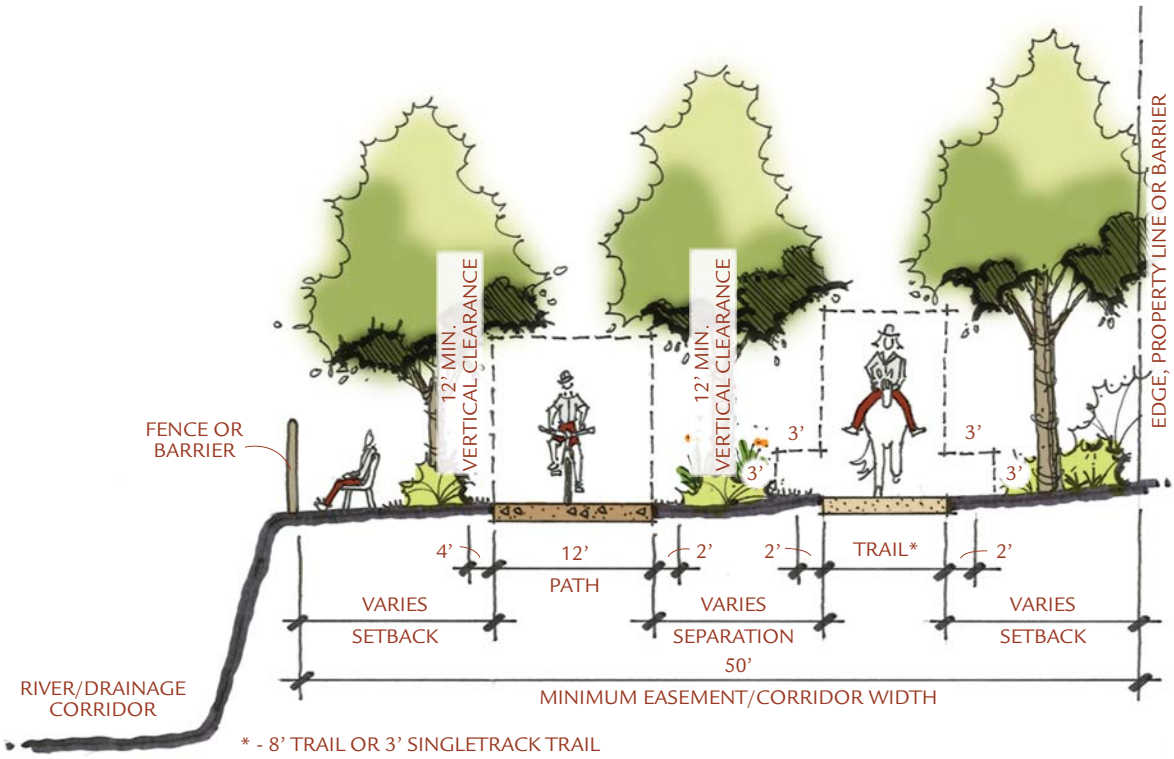


* 50' from the back of sidewalk if sidewalk is planned or present or from back of curb if no sidewalk is planned.

Greenway Corridor With a Trail and Path Adjacent to a Drainageway/Wash

Setback From Adjacent Barrier at Top of Bank, or Top of Bank to Path[1]	Path Width[2]	Setback Between Path and Trail[3]	Trail Tread Width	Setback From Trail Edge to Adjacent Barrier Edge or Property Line[4]	Minimum Greenway Easement/Corridor Width[5]
Varies	12'	Varies	8' Trail 2'-3' Singletrack Trail	Varies	50'

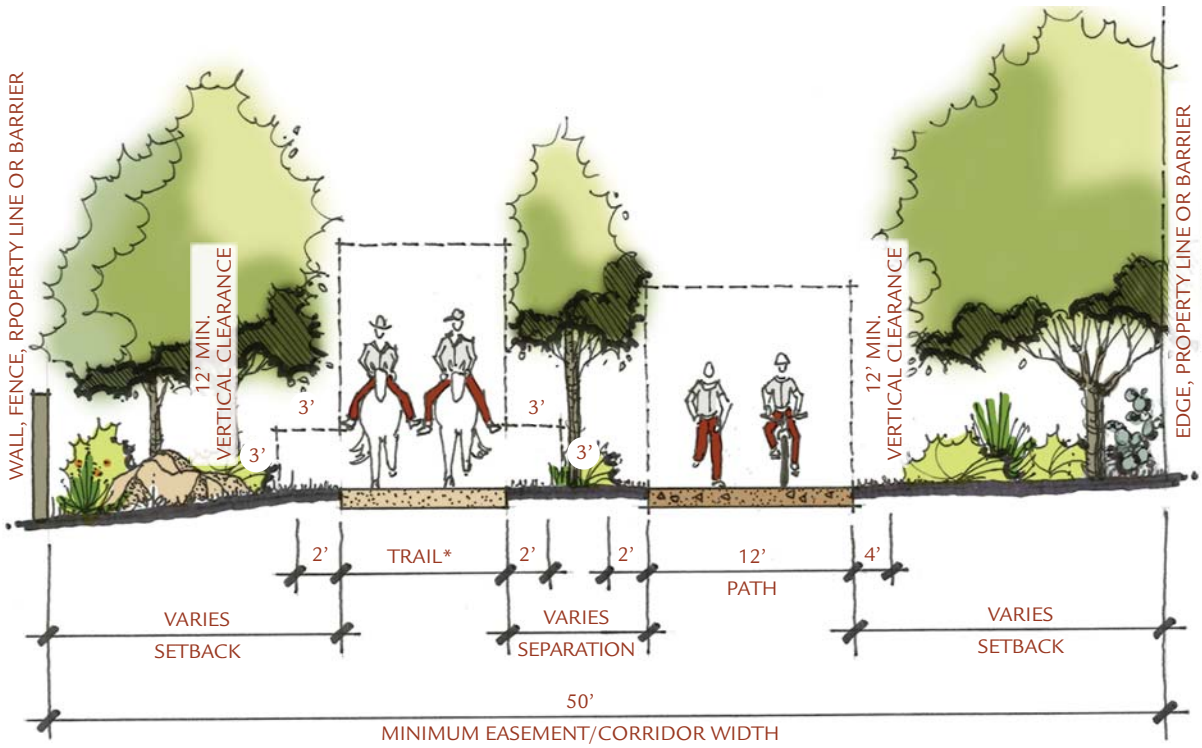
1. Includes four-foot wide shoulder.
2. Current minimum path width standards vary by jurisdiction in Pima County. i.e., Pima County and the City of Tucson standard is 12', the Town of Oro Valley standard is 10'. Maintain minimum path standard per jurisdiction.
3. Includes two-foot shoulder for trail and path and three-foot high by three-foot wide vegetation clearance for the trail side.
4. Includes two-foot shoulder and three-foot high by three-foot wide vegetation clearance.
5. Minimum corridor width for Greenways is 50' unless an exception is approved by the responsible jurisdiction representative to accommodate site constraints.



Greenway Corridor With a Trail and Path in an Open Space Area (other than a drainageway, wash, or along a road)

Setback From Adjacent Barrier at Top of Bank, or Top of Bank to Path[1]	Trail TreadWidth[2]	Setback Between Path and Trail[3]	Path Width	Setback From Trail Edge to Adjacent Barrier Edge or Property Line[4]	Minimum Greenway Easement/ Corridor Width[5]
Varies	8' Trail 2'-3' Singletrack Trail	Varies	12'	Varies	50'

1. Includes two-foot shoulder and three-foot by three-foot wide vegetation clearance.
2. Includes two-foot shoulder for trail and path and three-foot high by three-foot wide vegetation clearance for the trail side.
3. Current minimum path width standards vary by jurisdiction in Pima County. i.e., Pima County and the City of Tucson standard is 12', the Town of Oro Valley standard is 10'. Maintain minimum path standard per jurisdiction.
4. Includes four-foot shoulder.
5. Minimum corridor width for Greenways is 50' unless an exception is approved by the responsible jurisdiction representative to accommodate site constraints.



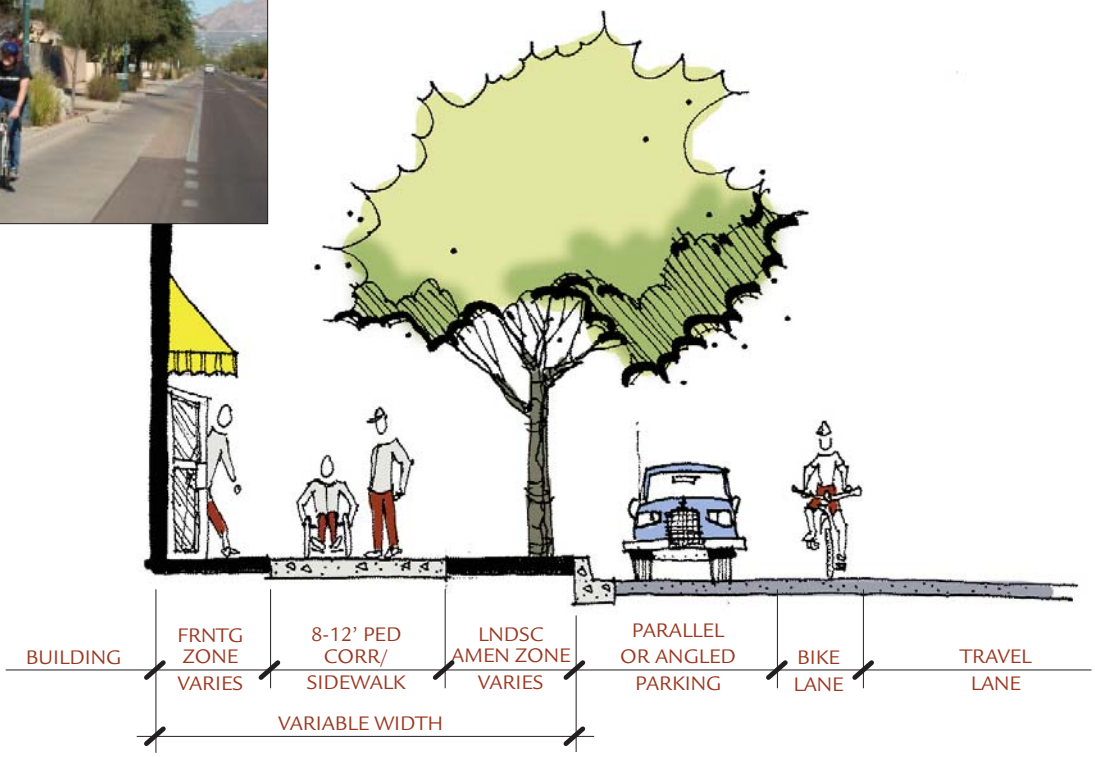
* - 8' TRAIL OR 3' SINGLETRACK TRAIL

Enhanced Bicycle/Pedestrian Corridors

Enhanced Bicycle/Pedestrian Corridors are a special designation for areas where the ability to link regional and community destinations via non-vehicular transportation modes needs to occur on city streets in denser, mixed-use areas. Enhanced Bicycle/Pedestrian Corridors generally follow existing local or collector streets that carry a relatively low volume of automobile traffic. They are intended to enhance safety and be attractive corridors that encourage bicycle and pedestrian use. Essential improvements include continuous bicycle lanes and continuous sidewalks with ramps. Landscape plantings, street furniture, transit shelters (where appropriate), and public art should also be included along these corridors. Tucson's Mountain Avenue was developed as a prototype for this type of corridor.

Pedestrian Corridor Width	Eight to twelve feet wide
Pedestrian Corridor Surface Material	Smooth, slip-resistant, no cracks or indents higher or wider than 1/4", or steep grade
Bicycle Lane Width	Per jurisdictional standards. Typically between four and six feet.
Shade	Minimum 75 percent coverage (combination of trees and structures) along route and at gathering nodes
Signs	Wayfinding and directional
Traffic Signals	Timed for a walking speed of two and eight-tenths feet per second
Other	• Clear of protruding objects • All changes in elevation have ramps • Pedestrian crossings of vehicular traffic have a defined crosswalk • Incorporate public art into the design • Pocket parks and other planting opportunities • Transit stations with amenities • Parallel or angled parking to buffer sidewalk from street where appropriate

Mountain Avenue

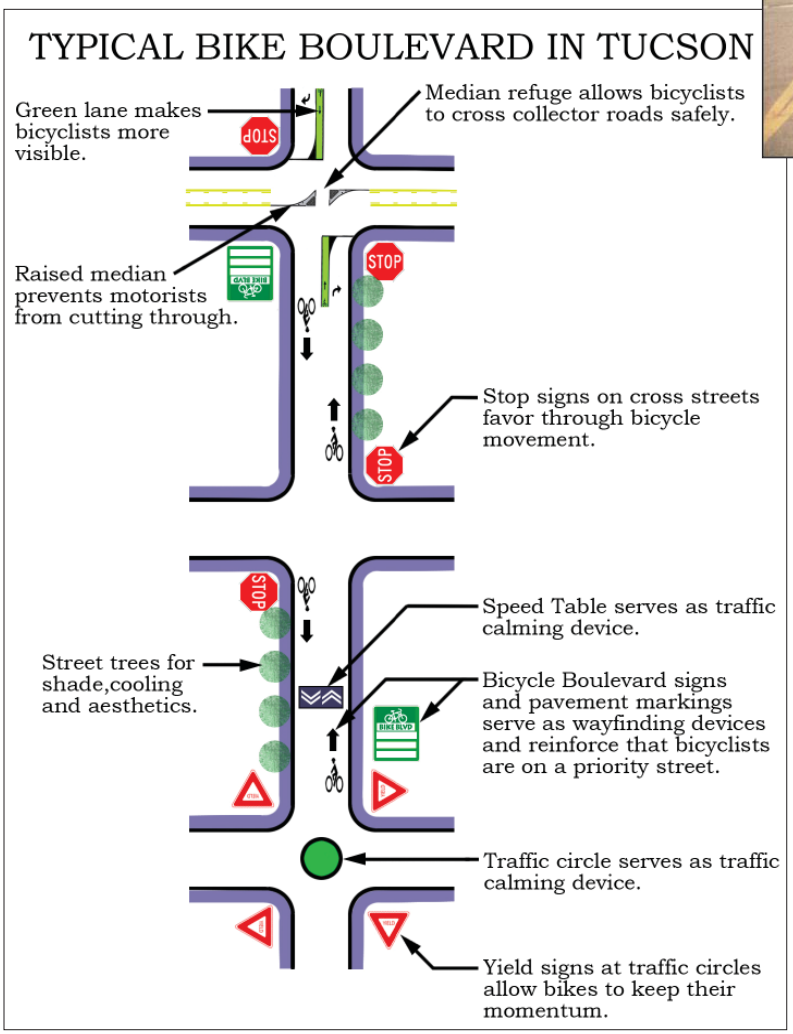


Bicycle Boulevards

Bike Boulevards are corridors that typically follow a local street or streets with a low volume of automobile traffic. Local automobile traffic is allowed on these streets but traffic controls are designed to give priority to bicycles. Features such as TOUCAN crossings (see Glossary and page 82 for information on TOUCANs) signaling systems are used at intersections where appropriate. Bike boulevards are predominantly a transportation improvement and are usually funded using transportation dollars; however, they are discussed in this plan because they are a valuable component of the trail system so should also be considered for trails funding.

May include	• Traffic circles and speed humps to slow down motorized vehicles • Changing the directions of stop signs to favor bicycle traffic • Specialized bicycle crossings at crossings of major roadways • Landscaping • Wayfinding and directional signs • Themed design • Public art incorporated into design

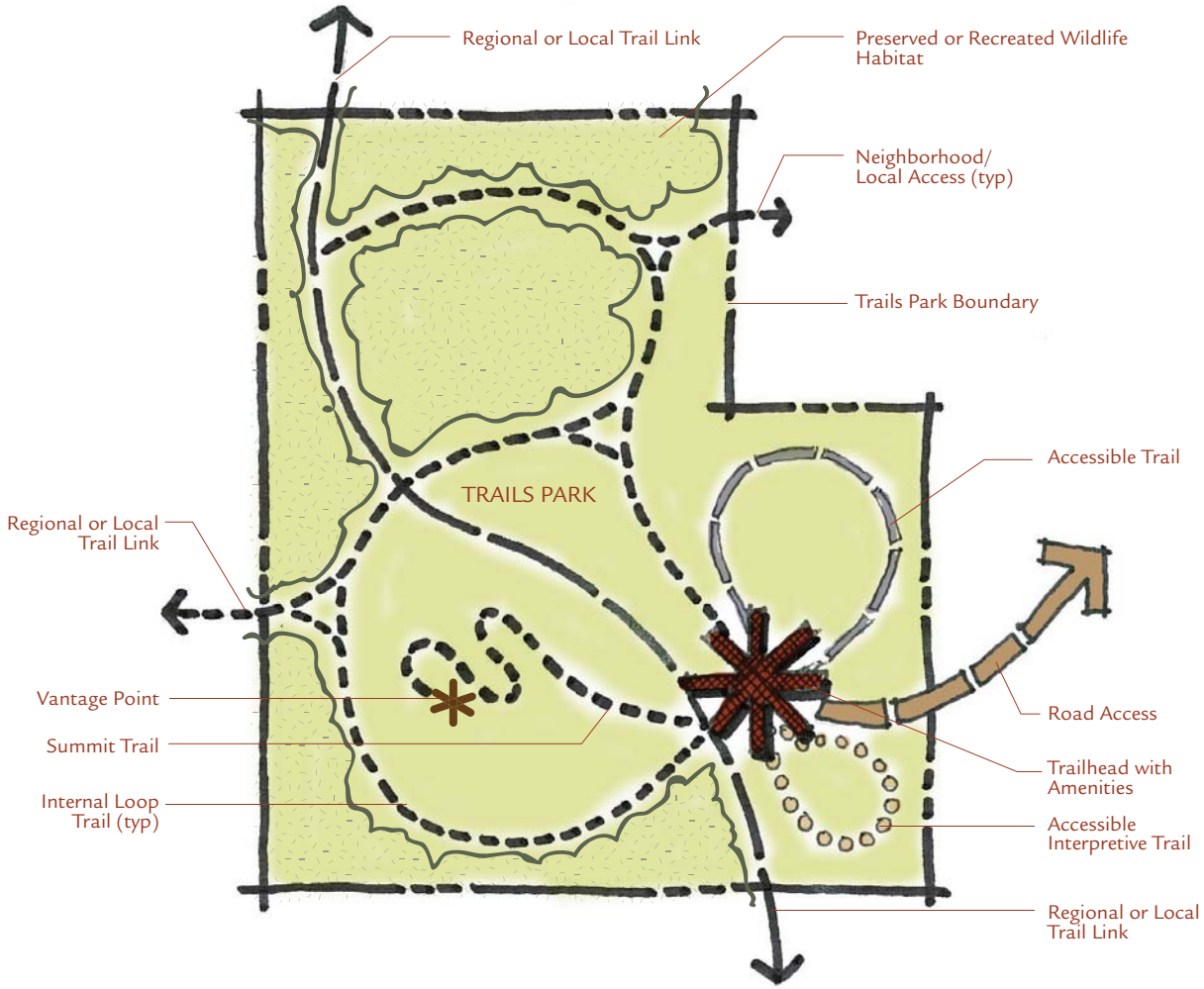
Innovative Bicycle Treatments, ITE Web Seminar, 2006. Matthew D. Ridgeway. Photo from Palo Alto, CA.



City of Tucson

Trails Parks

Trails Parks are large, primarily desert open space properties located in the developed or developing areas of the region to provide convenient access to trails-focused recreation. Trails parks contain multiple looped trails and a variety of trail experiences and amenities. Locating trails parks in developed areas provides convenient access to trails for a large number of users.	
Components	• Trailhead Facilities - Kiosks - Trail signs - Drinking fountains - Ramadas - Restrooms • Accessible trails • Accessible interpretive trail with signs noting its accessibility • Looped trail system • Variety of difficulty and terrain • Neighborhood access • Parking • Public art incorporated into design • Wildlife habitat preservation, restoration, or recreation



Trailheads, Entry Nodes, and Boundary Access Points

There are several types of improved access points which ensure public access to the path and trail network while enhancing safety and user experiences. Most importantly, the overall success of a trail/path system largely depends on the ease with which people can access the facilities, either by walking, riding or biking from home or by driving to convenient, safe, and well-equipped trailheads. This ease of accessing a trail system is also often referred to as porosity or edge porosity. The types of access points in the Pima Regional Trail System are Trailheads, Entry Nodes, and Boundary Access Points.

DESIGN CONSIDERATIONS

Standard Trailheads

- Features common to all standard trailheads include:
  - Paved parking
  - Picnic ramadas
  - Trail maps, information, and regulations
  - Restrooms
  - Shade

Trailheads with Equestrian Facilities

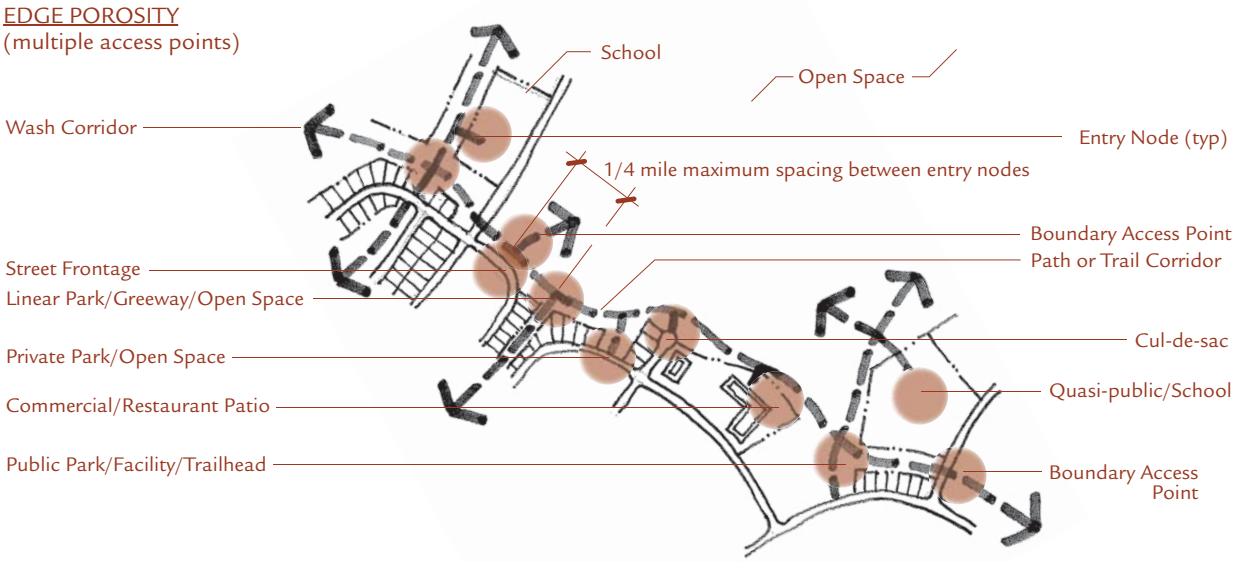
- All features identified for Standard Trailhead plus:
  - One-quarter inch minus decomposed granite surface for equestrian parking and off-loading areas
  - Separation of equestrians from other users in parking and trail access
  - Perimeter fencing and self-closing gates at pedestrian and trail entrances near streets
  - Pull-through, circular roadway, and parking areas for vehicles pulling horse trailers

The Neighborhood Equestrian Park and Trailhead

- This combined park and trailhead category provides trail access while also enhancing equestrian areas by providing close-to-home facilities for riding and training horses, as well as serving as a location for small scale equestrian events and activities. Brandi Fenton Park is an example of this type of facility.

Entry Nodes

- Entry nodes should be located at approximately one-quarter-mile intervals along corridors, a distance typically cited as a reasonable walking distance to a destination. Entry nodes do not include parking facilities. Entry nodes include amenities to improve comfort and provide helpful information to users such as benches, signs, water, shade, bike racks, and optional lighting. Site specific designs can also create or enhance neighborhood identity, incorporate public art, and/or provide cultural or environmental interpretation opportunities.



Standard Trailhead

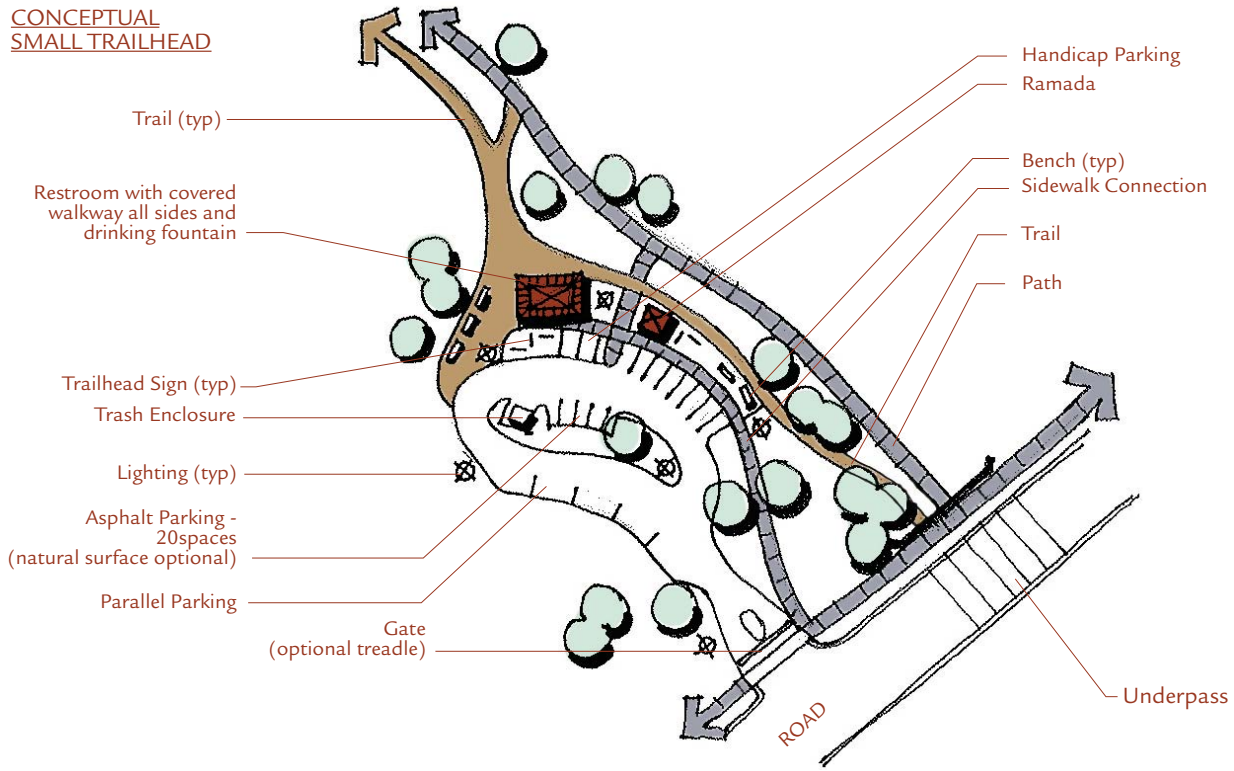
Trailheads are located along all types and levels of trail and path corridors. They provide parking spaces, as well as non-vehicular access to local and regional destinations and open space areas. There are two proposed Standard Trailheads - large and small. They can be located within neighborhood, community, or trails parks or can be built as separate facilities. See the Trail Standards section for more information. A Standard Trailhead provides trail and path users with convenient parking, informational signs, and other amenities associated with a jumping off point for the path and trail system.

General Size	Parking Spaces[1]	Rest-rooms	Area and Amenity Lighting	General Amenities	Signs
Small (TH[S])	6-30 std.	Yes	Yes	Benches, drinking water, landscape/ shade structure/picnic ramada, trash disposal, bike racks	Rules/notices, general and interpretive signs, location map
Large (TH[L])	31-60 std.	Yes	Yes	Benches, drinking water, landscape/ shade structure/picnic ramada, trash disposal, bike racks	Rules/notices, general and interpretive signs, location map

1. Parking spaces are in addition to number of required parking spaces for combined park site.

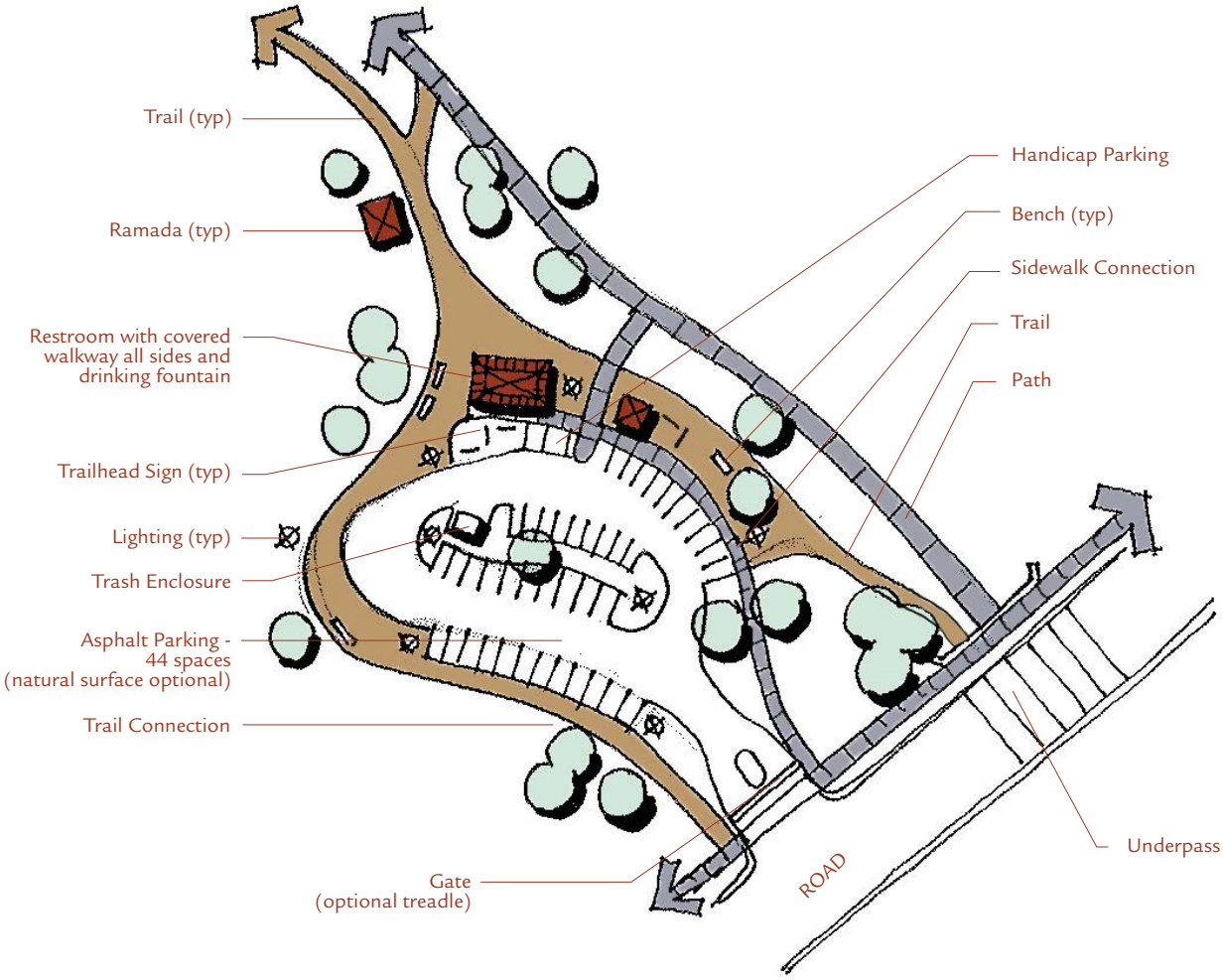
Note: The facilities and improvements noted above are recommended and will typically be required for the trailhead types listed. Final determination of the scope of trailhead development will be determined by the applicable jurisdiction or agency parks and recreation department. Modifications to these standards may be proposed in response to:

- Existing conditions associated with the approved site
- Anticipated demand for various types of public use
- The economic cost of utility service extensions
- Consistency with adopted resource management plans, park master plans, and/or other adopted planning documents



Standard Trailhead

CONCEPTUAL LARGE TRAILHEAD



Trailheads With Equestrian Facilities

There are two proposed sizes of Trailheads with Equestrian Facilities: large and small. These facilities provide features for equestrian uses as well as other trailhead parking and amenities. These facilities can be located along all classifications of unpaved trail corridors.

General Size	Parking Spaces[1]	Rest-rooms	Area and Amenity Lighting	General Amenities	Signs	Equestrian Amenities: EQ water source, tethering rails
Small (THE[S])	6-30 std. +5-8 equestrian[2]	Yes	Yes	Benches, drinking water, landscape/ shade structure/picnic ramada, trash disposal, bike racks	Rules/notices, general and interpretive signs, location map	Yes, plus ADA mounting ramp or platform, manure disposal area, 1 round pen, 1 wash rack
Large (THE[L])	31-60 std. +10-15 equestrian[2]	Yes	Yes	Benches, drinking water, landscape/ shade structure/picnic ramada, trash disposal, bike racks	Rules/notices, general and interpretive signs, location map	Yes, plus ADA mounting ramp or platform, manure disposal area, 1 round pen, 1 wash rack

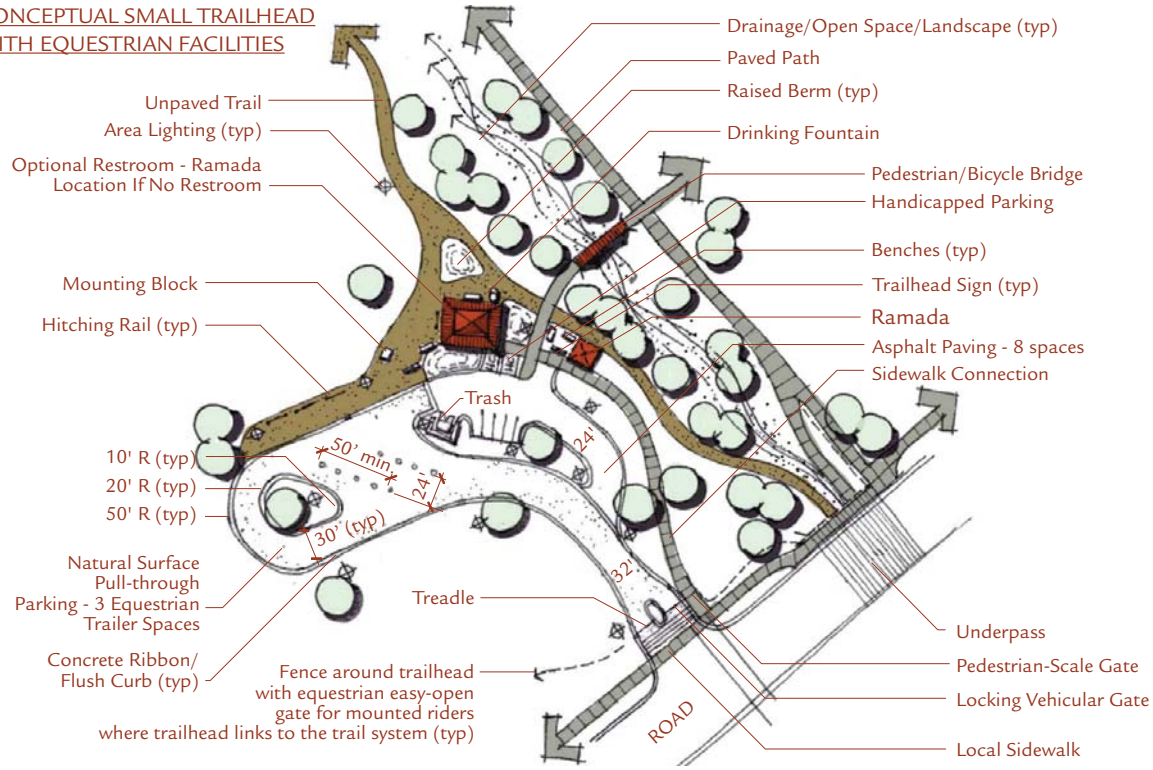
1. Standard parking spaces are in addition to number of required parking spaces for combined park site.
2. Equestrian parking requirements: 25-foot min. width by 50-foot length.

Note: The facilities and improvements noted above are recommended and will typically be required for the trailhead types listed. Final determination of the scope of trailhead development will be determined by the applicable jurisdiction or agency parks and recreation department. Modifications to these standards may be proposed in response to:

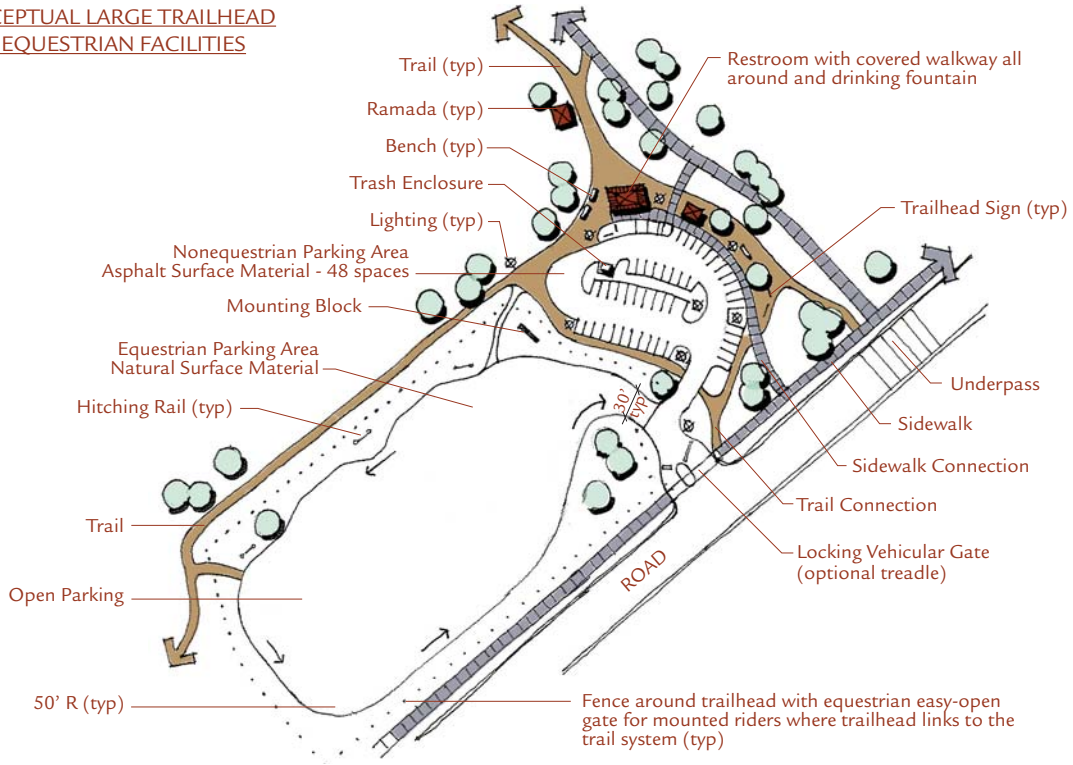
- Existing conditions associated with the approved site
- Anticipated demand for various types of public use
- The economic cost of utility service extensions
- Consistency with adopted resource management plans, park master plans, and/or other adopted planning documents

Trailheads With Equestrian Facilities

CONCEPTUAL SMALL TRAILHEAD WITH EQUESTRIAN FACILITIES



CONCEPTUAL LARGE TRAILHEAD WITH EQUESTRIAN FACILITIES



Neighborhood Equestrian Park and Trailhead

The combined Neighborhood Equestrian Park and Trailhead features a trailhead with additional equestrian amenities suitable for a park located in an equestrian neighborhood. Tucson's Ormsby Park's planned facility is an example of this type of park. Certain areas of Pima County currently have, or are likely to have, equestrian privileges where residents can keep horses on their property. This combined park and trailhead category provides trail access while also enhancing these areas by providing close-to-home facilities for riding and training horses, as well as serving as a location for small scale equestrian events and activities.

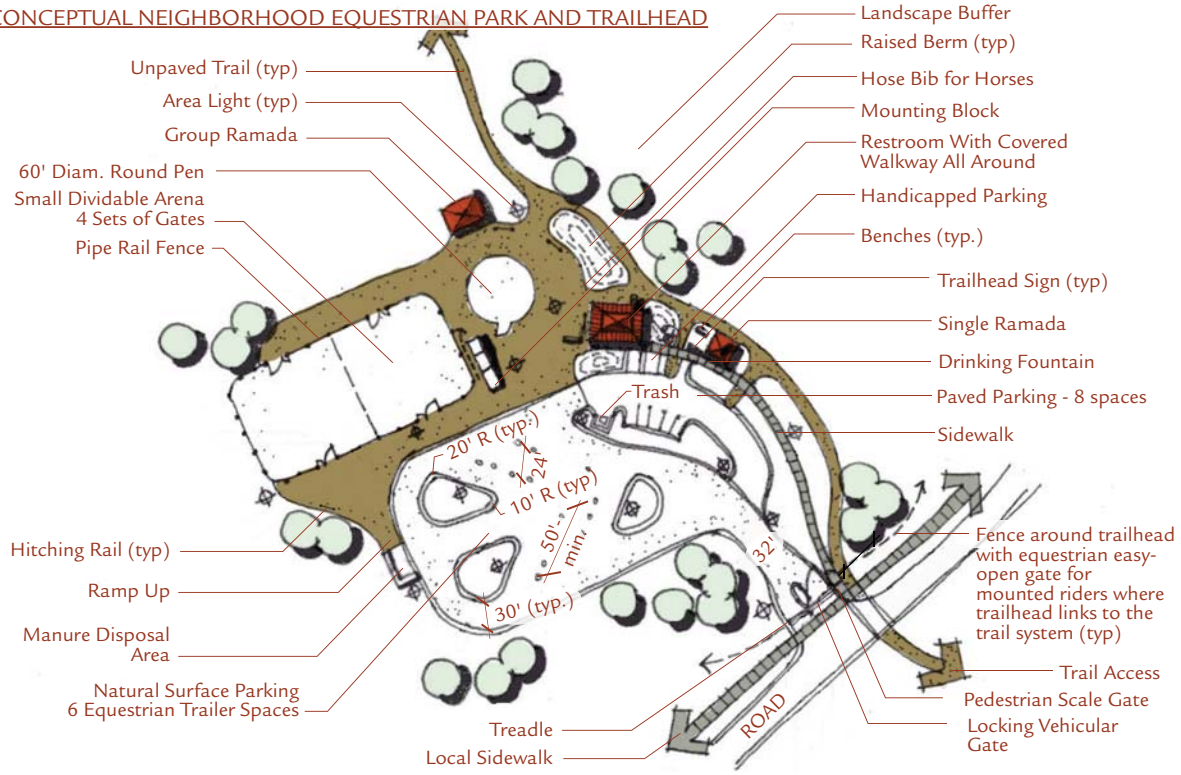
General Size	Acreage	Parking Spaces[1]	Rest-rooms	Area and Amenity Lighting	General Amenities	Signs	Equestrian Amenities
N/A	3 acres ±	9-15 total, 4-6 equestrian[2]	Yes	Yes, optional Arena lighting	Benches, drinking water, landscape/ shade structure/ picnic ramada, trash disposal, bike racks	Rules/notices, general and in-terpretive signs, location map	Equestrian water source and tethering rails, ADA mounting ramp or platform, manure disposal area, round pen, and one small dividable arena.

1. Standard parking spaces are in addition to number of required parking spaces for combined park site.
2. Equestrian parking requirements: 25-foot min. width by 50-foot length.

Note: No locations have been determined at the time of printing. The facilities and improvements noted above are recommended and will typically be required for the facility type listed. Final determination of the scope of development will be determined by the applicable jurisdiction or agency parks and recreation department. Modifications to these standards may be proposed in response to:

- Existing conditions associated with the approved site
- Anticipated demand for various types of public use
- The economic cost of utility service extensions
- Consistency with adopted resource management plans, park master plans, and/or other adopted planning documents

CONCEPTUAL NEIGHBORHOOD EQUESTRIAN PARK AND TRAILHEAD



Trailheads, Entry Nodes, and Boundary Access Points

Entry Nodes

Entry Nodes are developed access areas along all types of path and trail corridors that serve to encourage and welcome neighborhood and local pedestrian, equestrian, and bicycle access to the path/trail system. They provide minimal amenities, most importantly trail system signs. They should be located at approximately one-quarter-mile intervals along corridors, a distance typically cited as a reasonable walking distance to a destination. Entry nodes typically do not include parking facilities, but could have up to five standard size spaces depending on needs and circumstances. Because there would be numerous nodes using this spacing recommendation, they are not mapped. A concept sketch is provided in the Trailheads, Entry Nodes, and Boundary Access Points standards section.

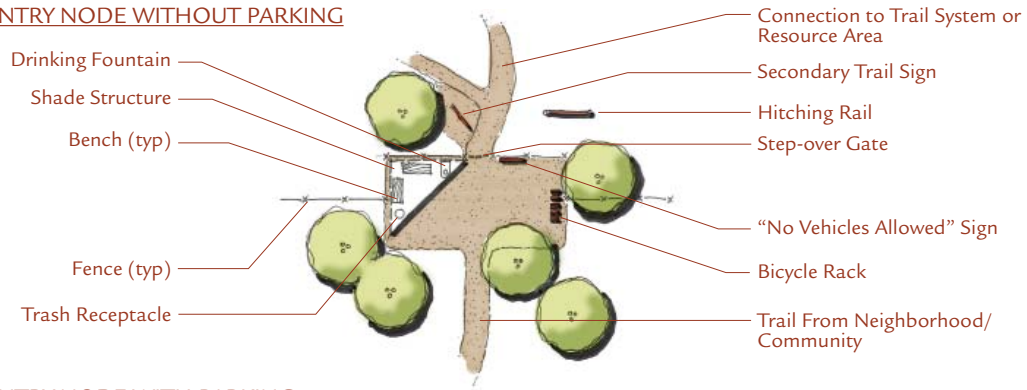
Spacing	Acreage	Parking Spaces	Rest-rooms	Area and Amenity Lighting	General Amenities	Signs	Equestrian Amenities
¼ mile intervals[1]	±.02 acres	0-5	None	Optional	Benches, drinking water, landscape/ shade structure, trash disposal, bike racks	Rules/notices, general and interpretive signs, location map	Equestrian water source and tethering rails when along an unpaved trail

1. River Park entry nodes as often as possible.

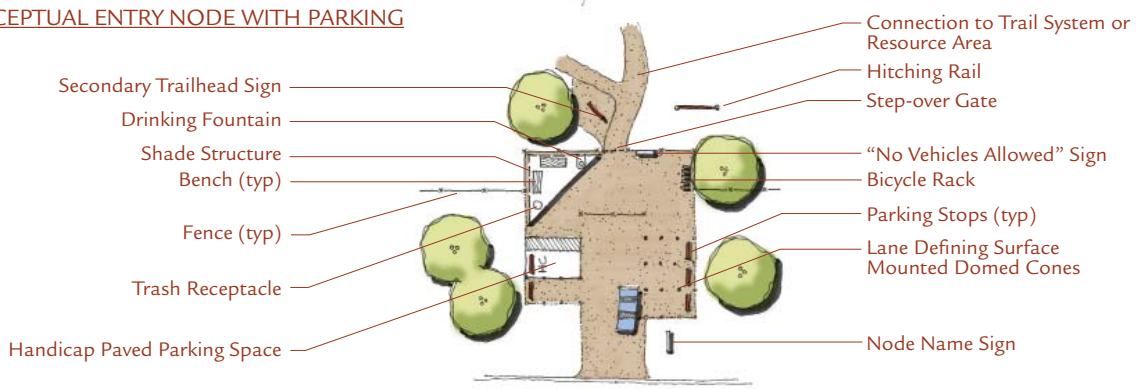
Note: The facilities and improvements noted above are recommended and will typically be required for the trailhead types listed. Final determination of the scope of trailhead development will be determined by the applicable jurisdiction or agency parks and recreation department. Modifications to these standards may be proposed in response to:

- Existing conditions associated with the approved site
- Anticipated demand for various types of public use
- The economic cost of utility service extensions
- Consistency with adopted resource management plans, park master plans, and/or other adopted planning documents

CONCEPTUAL ENTRY NODE WITHOUT PARKING



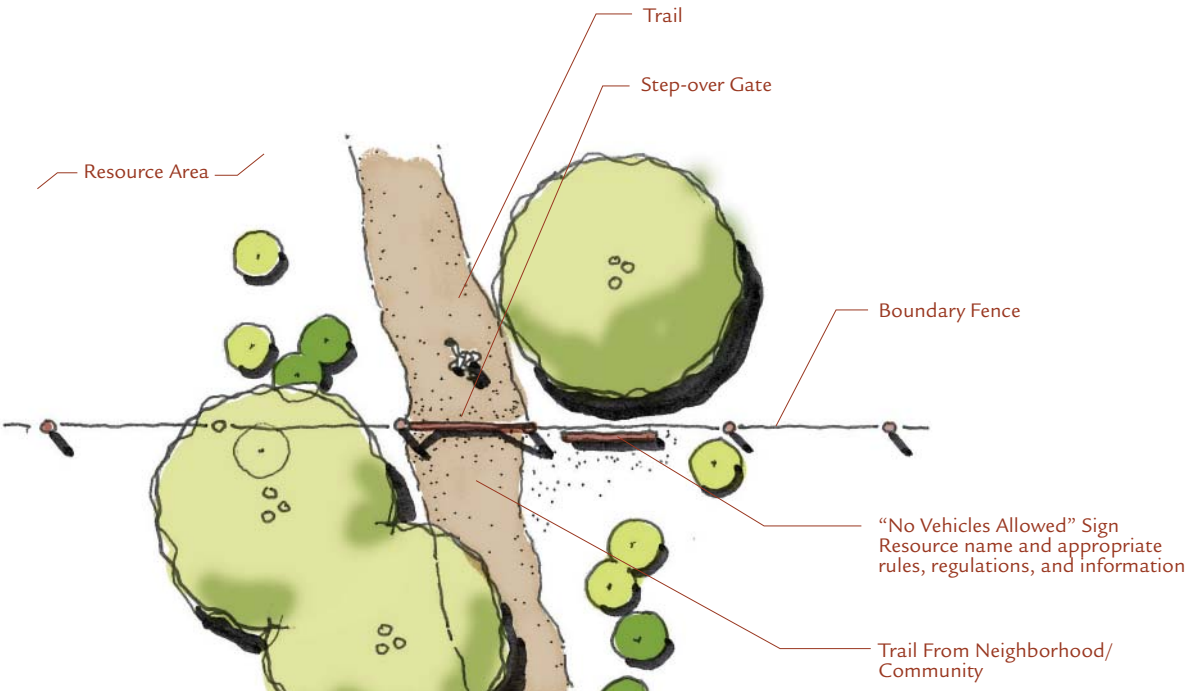
CONCEPTUAL ENTRY NODE WITH PARKING

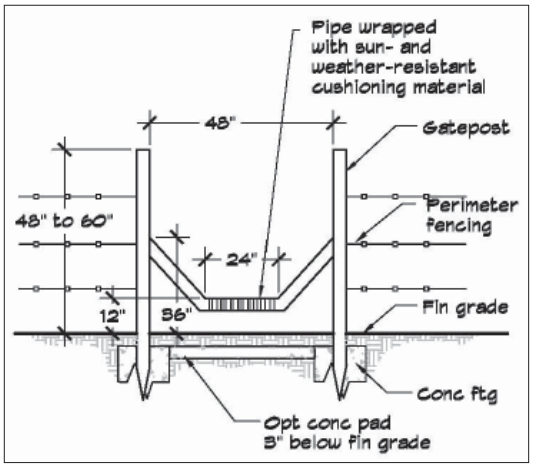


Boundary Access Points

Boundary Access Points are the smallest, most basic entry point to the natural resource areas surrounding Tucson. They are generally a four-foot wide gap in the boundary fence with a low cross bar and small trail sign. Parking is not provided. The small fence gap and bar prohibit access by motorized vehicles.

Location	Size	Parking Spaces	Rest-rooms	Area and Amenity Lighting	General Amenities	Signs	Equestrian Amenities
Where path or trail enters large public lands	Four-foot fence opening with step over or other feature to discourage motorized use	None	None	None	None	Rules/notices, general and information (may include trail name and location map)	None





ELEVATION
based on a detail from the FHWA publication *Equestrian Design Guidebook for Trails, Trailheads and Campgrounds* (2007)

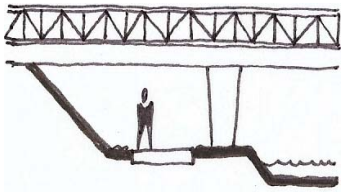
Grade Separated

Grade-separated crossings typically occur when a road bridges over a path or trail following a river or other linear corridor. Where possible, paths and trails should be routed to this type of crossing, where a bridge or culvert already exists, or where one is feasible in the future, especially where a trail crosses a major arterial. There are several types of grade-separated crossings that are discussed in more detail in the Standards section of this chapter: Bridge Underpasses, Pedestrian Underpasses, Shared Bicycle/Pedestrian Bridge Overpasses, and Land Bridges. River Parks and the Urban Loop should be the first priority when considering new crossing projects.

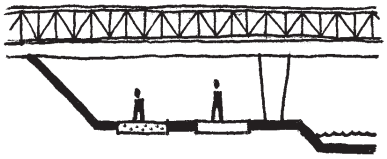
BRIDGE UNDERPASS

When a trail and/or path passes under a bridge for a road or railroad track (such as along a river or creek), the following standards apply

Vertical Clearance	12-foot minimum
Width	15-foot minimum plus path or trail clearance standard
Grade	Maximum 5%
Lighting	Continuous, all day under bridge
Signs	Multi-use trail/path signs at both ends including Trail Etiquette
Public Art	Incorporate public art into design
Location of Path/Trail Within Bridge Section	Above the low-flow channel to minimize maintenance and maximize usability.



A BRIDGE UNDERPASS with a path or trail corridor along one side of a wash/drainage corridor.



A BRIDGE UNDERPASS with a path and trail corridor along one side of a wash/drainage corridor.

PEDESTRIAN UNDERPASS

Where a trail/path passes under a road or railroad in a separate structure like a culvert or a tunnel, the following standards apply. This is a structure exclusive to path/trail and drainage use (except emergency and maintenance vehicles) and does not include a roadway.

Vertical Clearance	12-foot minimum
Width	15-foot minimum plus path or trail clearance standard
Grade	Maximum 5%
Alignment	As close as possible to perpendicular to the roadway to minimize length
Visibility	Continuous sight line distance from beginning to end
Lighting	Continuous, all day under bridge. Provide skylight/light tunnel at midpoint where medians above create opportunity
Signs	Multi-use trail/path signs at both ends including Trail Etiquette
Public Art	Incorporate public art into design
Location of Path/Trail Within Bridge Section	Above the low-flow channel to minimize maintenance and maximize usability

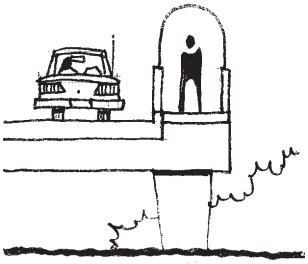
The safest and most usable PEDESTRIAN UNDERPASSES are lighted with clear sight lines. Users often share the space with drainage

Grade Separated

SHARED BRIDGE

Where a trail or path shares a bridge with vehicles, the bridge width should be increased on one side of the bridge to accommodate the trail or path. The following standards apply:

Vertical Clearance	12-foot minimum*
Width	15 feet*
Grade	Maximum 5%
Visibility	See-through, continuous sides and tops around trail/path for maximum safety
Lighting	Yes
Public Art	Incorporate public art into design
Signs	Multi-use trail/path signs at both ends including Trail Etiquette
Safety	Incorporate devices as needed to prevent items being thrown from bridge into traffic below. Provide a textured path with enough traction for equestrians but not so much it prevents roller bladers and skateboards*.
Location of Path/Trail Within Bridge Section	Vertical separation between trail/path and traffic, such as a jersey barrier

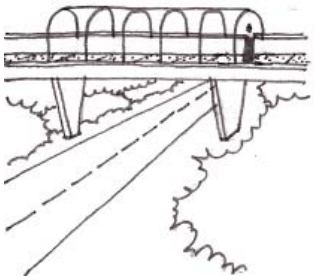


A SHARED BRIDGE accommodates vehicles as well as non-vehicular users within a protective enclosure separated from vehicular traffic

PEDESTRIAN BRIDGE/OVERPASS

In cases where a special bridge that accommodates pedestrians, bicyclists or equestrians crosses over a road, creek or drainage, the following standards apply.

Vertical Clearance	12-foot minimum for pedestrians/bicyclists on bridge*
Width	15 feet*
Visibility	See-through, continuous sides and tops around trail/path for maximum safety
Lighting	Yes
Public Art	Incorporate public art into design
Safety	Incorporate devices as needed to prevent items being thrown from bridge into traffic below. Provide a textured path with enough traction for equestrians but not so much it prevents roller bladers and skateboards*.
Signs	Multi-use trail/path signs at both ends including Trail Etiquette



A PEDESTRIAN OVERPASS/BRIDGE passes above a road, railroad, canal or drainage corridor within a protective enclosure

*For additional information on developing bridge crossings that are equestrian friendly, refer to: Equestrian Design Guidebook for Trails, Trailheads, and Campgrounds. Hancock, Jan et al. United States Department of Agriculture, Forest Service, Technology & Development Program In Cooperation with United States Department of Transportation Federal Highway Administration. December 2007.

LAND BRIDGE

Land bridges have been used where wildlife corridors are of value and/or where a trail user experience is so important as to literally obscure any sense of a crossed roadway. They can become very significant entry or iconic features in and of themselves. The following standards apply but are greatly supplemented with an abundance of planting and an artistic flair.

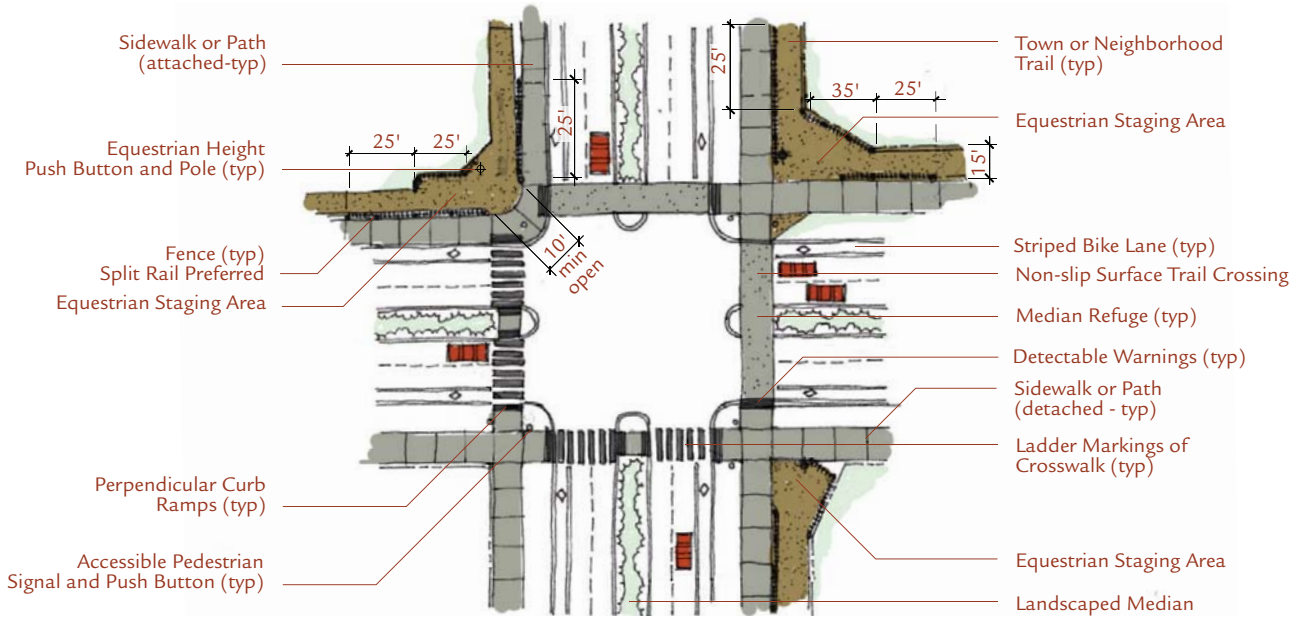
Vertical Clearance	12-foot minimum for pedestrians/bicyclists on bridge
Width	15-foot minimum path or trail corridor 12-foot minimum each side of path/trail corridor
Visibility	Open sight lines along path/trail corridor. Highway below screened completely from path/trail.
Lighting	Yes
Public Art	Incorporate public art into design
Safety	Incorporate devices as needed to prevent items being thrown from bridge into traffic below
Signs	Multi-use trail/path signs at both ends including Trail Etiquette. Interpretive signs are appropriate based upon setting.

Source: Landscape Architecture Magazine, 2009. Bridge by Jones and Jones

At-Grade

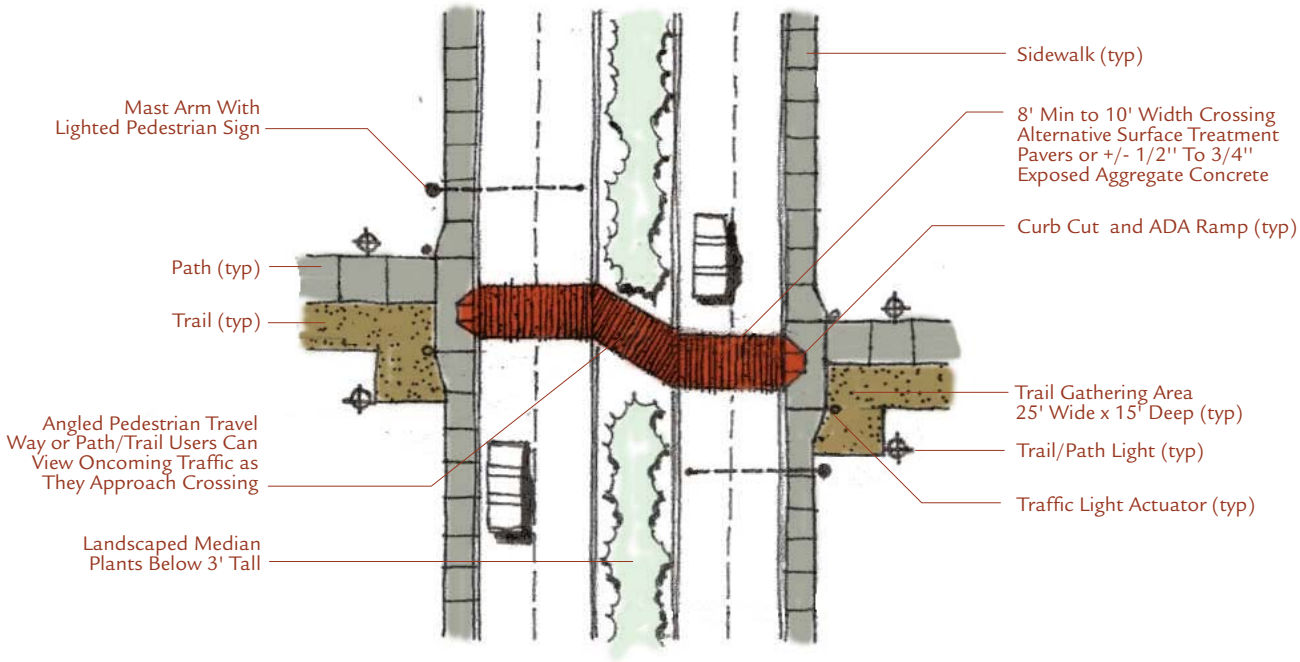
The following at-grade path and trail crossing treatments are guidelines only and identify desirable elements that can be incorporated into crossings to make them more accommodating to path and trail users. These guidelines must be considered in combination with all other roadway and intersection design parameters and constraints. River Parks and the Urban Loop should be the first priority when considering new crossing projects.

ENHANCED SIGNALIZED CROSSING	
Where trails and paths encounter signalized intersections, the following guidelines apply. The design may include corner improvements on two, three or four corners and one, two, three or four cross-walk improvements, depending on the trails and paths coming together at the corner.	
Features	• Provide ladder markings of crosswalks and curb ramps at right angles to moving traffic • Where feasible, curb extensions with landscaping and detectable warning • Provide accessible pedestrian signals • Provide adequate sight line distances that consider adequate time, visibility, warning signs, and lighting • Do not impede sight lines at roadway crossings with signs, bus stops, benches, parked vehicles, light posts, vegetation, or other objects that could reduce user visibility • Where feasible, provide a roadway refuge or median area that permits a "safe zone" when traffic is moving on a multi-lane or divided roadway • Where feasible, provide traffic calming designs, such as flashing lights alerting drivers to a path/trail crossing area ahead in the roadway, decreased speed limits, roundabouts, narrowed travel lanes, speed tables or plateaus, and stop bars • Provide for pedestrian/equestrian scale lighting • Whenever possible, provide curb cuts for people with disabilities, which are also equestrian-friendly, Design them to be the same width as the trail/path tread or greater.
Where Equestrians Are Present	• Provide a "gathering space" or a holding zone/area that will permit a group of equestrians to stand and wait for the appropriate and safe time to complete a roadway crossing. The trail surface width should fan out to incorporate a minimum 25-foot wide area parallel to the edge of the roadway that is also a minimum of 15 feet in depth from the edge of the roadway • Equestrian push button-activated crosswalk signal mounted within the gathering space at a height of 6' at any corner crossed by the trail • The tread for an at-grade, hard-surface roadway crossing should have enough texture to prevent an equine's hooves from slipping on the surface. Heavy traffic requires a very durable tread surface such as washed concrete with 3/8 – 1/2-inch exposed broken aggregate. Very light traffic roadways can generally utilize grooved or very coarse broom-finished concrete surfaces, bricks, pavers, or chip seal asphalt. Concrete grooves should be incised perpendicular to the direction of travel for trail users on the roadway crossing. Depth of the grooves should be 1/4 to 1/2 inch deep, at 1 to 2-inch intervals. NOTE: Typical asphalt and concrete road or sidewalk surfaces DO NOT provide enough texture or traction and can be very slippery to an equine. • Fencing or barriers to separate trail from path, adjoining property, etc.



At-Grade

MID-BLOCK CROSSING	
At the few locations where a trail or path follows a utility corridor and intersects a street where no other street or potentially signalized intersection exists, the crossing can be enhanced to better warn roadway and path/trail users of this crossing. Many of the same features of the enhanced at-grade crossing apply to mid-block crossings as well. These features would include one or more of the elements shown below.	
Features	• Ladder or continental style marked crosswalks • Adequate sight line distance considering time, visibility, amenities, warning, signs, and lighting • Gather spaces at each crossing side • Push button activated crosswalk signals at 6-foot height for equestrians and at pedestrian heights at sides of road and within the median • Detectable warning at street/path/trail edge • Crossing island or median (raised or flush) safe zone with curb ramps (if raised) and staggered or "Danish Offset" the same width or greater than path/trail • Where feasible, provide traffic calming designs such as decreased speed limits, narrowed travel lanes, speed tables or plateaus, and stop bars • Pedestrian warning signs (refer to MUTCD) for sign placement criteria. Consider yield signs, flashing yield signs, or traffic signals • Advance yield lines • Appropriate pedestrian- scale lighting • Refer to the AASHTO *Guide for the Planning, Design and Operations of Pedestrian Facilities*, July 2004., Section 3.4 "Midblock Crossings" and the AASHTO *Guide for the Development of Bicycle Facilities,* 1999, pages 46-53 for additional information.



The feasibility of providing any mid-block crossing decreases as a roadway is widened, and speeds and traffic increase. As this situation develops over time, it is possible that trails along mid-block corridors would be routed to nearby signalized or grade-separated crossings and mid-block crossings will be discouraged through signs, fencing, and/or barriers.

Crossings

At-Grade

Nationwide, transportation planners and officials are exploring mid-block crossing options. Tucson has three types that are gaining popularity (www.tucsonaz.gov).

PELICAN Traffic Signal
The PEdestrian LIght Control ActivatioN (PELICAN) system provides a safe, two-stage crossing for pedestrians. The crossing incorporates the median island refuge between the two stages. These crossings can be easily identified by artwork displayed on the median. The PELICAN is placed mid-block on major streets, and minimizes the potential for stops, delays, and accidents. A pedestrian uses the crossing by pressing a button to activate the first signal. When the light turns red, a "WALK" signal prompts them to proceed to the median. The pedestrian then walks a short distance along the median to activate the second signal. A second "WALK" indication appears when the traffic signal turns red. The PELICAN uses a standard Red-Yellow-Green signal for motorists and remains green unless activated by a pedestrian. Bicyclists should yield to pedestrians, dismounting if necessary.

TOUCAN Traffic Signal
The TwO GroUps CAN cross (TOUCAN) system was designed to provide a safe crossing for two groups - pedestrians and bicyclists. TOUCAN systems are placed at locations of heavy bicycle and pedestrian crossing activity and along roadways that are prioritized for non-motorized uses, sometimes known as "Bike Boulevards." An added benefit to the TOUCAN signal system is that motorized traffic is not allowed to proceed through these signals, decreasing the number of cars on neighborhood streets, and enhancing the neighborhood's quality of life. A TOUCAN can be activated only by bicyclists or by pedestrians. Both use a push button to activate the signal. Bicyclists respond to an innovative bicycle signal and use a special lane when crossing. Pedestrians get a standard WALK indication and have a separate, adjacent crosswalk. The system uses a standard signal for motorists.

HAWK Pedestrian Flasher
The High Intensity Activated Cross WalK (HAWK) is one of the newest crossing systems in use. It is based on a European design and resembles the American school bus "children present" warning. The HAWK consists of a Red-Yellow-Red signal format for motorists. The signals remain off until a pedestrian activates the system by pressing a button. First, a FLASHING YELLOW light warns motorists that a pedestrian is present. The signal then changes to SOLID YELLOW, alerting drivers to prepare to stop. The signal then turns SOLID RED and shows the pedestrian a "WALK" symbol. The signal then begins ALTERNATING FLASHING RED and the pedestrian is shown a flashing "DON'T WALK" with a countdown timer. Drivers are allowed to proceed during the flashing red after coming to a full stop and making sure there is no danger to pedestrians. In school zones, drivers must wait until the children and crossing guard are completely out of the crossing before proceeding. Bicyclists are advised to yield to pedestrians and dismount if necessary.

At-Grade

WASH LOW-FLOW OR DIP CROSSING	
These crossings can be used at drainage areas where a bridge structure is financially unfeasible or where flows are small or infrequent. They can be installed as an initial phase and eventually replaced by a separate pedestrian/ bridge overpass or a shared bridge, thereby ensuring year round use.	
Vertical Clearance	12-foot minimum
Width	Same as the trail or path
Surface	Unpaved trail crossing: washed concrete with 3/8"-1/2" exposed broken aggregate or incise grooves in concrete perpendicular to direction of trail traveler, 1/4-1/2" deep at 1-2" intervals; Thickened concrete edges Path crossings: heavy broom finish in concrete perpendicular to direction of path traveler; thickened concrete edges Line the ramps upper and lower edges with 5-inch to 6-inch high rock
Lighting	Optional (at jurisdictions discretion for safety)
Signs	Multi-use trail/path signs at both ends including Trail Etiquette

A WASH LOW-FLOW or DIP CROSSING provides a stable and firm footing for all users

Signs

DESIGN CONSIDERATIONS

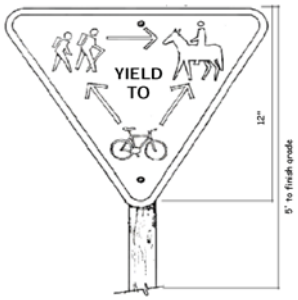
- Use distinct or identifying shape
- Use of jurisdictional logo and/or new logo for Pima Regional Trail System
- Use universal/international pictorials recreational symbols.
- Design for flexibility and modularity
- Design for shade and/or protection from the elements at appropriate locations
- Incorporate color coding for various types of information
- Use durable, low maintenance materials
- Design for simple and straight forward sign ordering and installation procedures (professional, staff, volunteers)
- Incorporate simple fabrication procedures
- Incorporate readily available materials to lessen costs
- Use non-fade colors
- Strive for vandal resistance in materials and fabrication techniques.
- Conduct a detailed sign inventory by path or trail corridor and recommend specific locations for all sign types.

A sign template that incorporates the name of the trail or facility, the name 'Pima Regional Trail System', and the name of the jurisdiction in which the particular segment is located should be developed and agreed upon by all the participating jurisdictions. The sign could also include room for logos and/or names associated with sub-trail systems.

Signs

Sign Type	Sign Reference	Sign Description/Information	Recommended Locations
Large entry monument	A-1	Facility name, address, jurisdictional logo, Pima Regional Trail System logo	At drive-in location to largest trailheads with large amount of parking and access to main trails and paths
Medium entry monument	A-2	Facility name, address, jurisdictional logo, Pima Regional Trail System logo	At drive-in location to smaller trailheads with at least ten parking spaces and access to major path or trail corridor
Large Trailhead	TH[L]	Front Side: Jurisdictional logo and/or Pima Regional Trail System logo, trail/path name, regulation description and universal symbols if any, approved trail use, Universal Trail Access Info (surface, length, typical slopes, etc.) trail etiquette triangle if more than one use, directional arrows, map of Pima Regional Trail System logo path/trail system network with "you are here." Backside: Jurisdictional logo and/or Pima Regional Trail System logo, trail/path name, bulletin board with space for brochures, fliers, pamphlets, small maps, temporary warnings, etc. Room for additional information, directional arrow panels.	At trail/path access point from a trailhead or from other public areas like parks.
Small Trailhead	TH[S]	Front Side: Jurisdictional logo and/or Pima Regional Trail System logo, trail/path name, regulation description and universal symbols if any, Universal Trail Access Info (surface, length, typical slopes, etc.) approved trail use, Universal Trail Access Info (surface, length, typical slopes, etc.) trail etiquette triangle if more than one use, directional arrows. Back Side: Map of Pima Regional Trail System network with "you are here."	At trail/path access point within an Entry Node.
Special Regulatory/ Boundary Warning	R-1	Jurisdictional logo, distinct shape, special issue regulation, i.e. "No fires", "No motorized vehicles", "No vehicles beyond this point", "Private property beyond this point", "Please respect the private property of our neighbors", etc.	As needed where problems already exist or preventive where problem is possible or likely
Interpretive Orientation	I-1	Jurisdictional logo and/or Pima Regional Trail System logo, orienting information for entire area or beginning of an interpretive trail in written and/or graphic format	At beginning of interpretive trail corridor
Interpretive	I-2	Jurisdictional logo and/or Pima Regional Trail System logo, interpretive information in written and/or graphic format	At identified features

Signs

Sign Type	Sign Reference	Sign Description/Information	Recommended Locations
Single Path/Trail Directional	T-1	Jurisdictional logo and/or Pima Regional Trail System logo, trail name with directional arrow, universal graphic symbols, distance to main features along trail, trailheads, and intersections with other trails.	Approximately ¼ mile from trailhead and approximately every ¼ mile along corridor
Multi-Path/Trail/ Feature Directional	T-2	Multiple trail name panels with directional arrows on perpendicular or parallel panels, universal graphic symbols, distance to main features, trailheads, and intersections with other trails.	At intersection of paths/trails or routes to features
Trail Etiquette	T-3	Trail user yield triangle if more than one use allowed 	At intersections of paths/trails

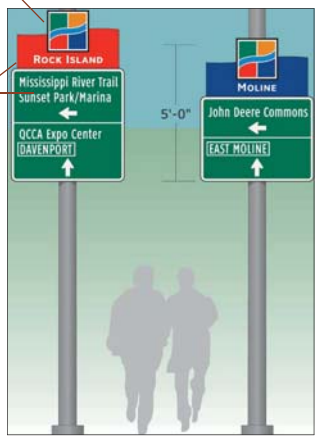
EXAMPLES OF TRAIL SIGN FRAMEWORK

Regional Logo

Feature Number

Feature Name

Jurisdiction Identification



http://www.americantrails.org/resources/trans/QuadCitiesWayfind.html

DESIGN CONSIDERATIONS

- 20-foot wide walkway, visually and functionally separate from the path of vehicles.
- A walkway surface that is smooth, slip-resistant, and without cracks, indents, or steep grade.
- Walkway design that adds character to the architectural theme.
- Clear of protruding objects.
- The walkway is in an environment with a pedestrian scale and pleasing building height ratio.
- There are no driveway crossings.
- All changes in elevation have ramps and intersections corners have curb cuts for both directions or one broad cut servicing both crosswalks.
- The walkway is physically separated from vehicular traffic by at least four vertical or horizontal elements.
- At least one foot-candle of lighting that is generally continuous.
- Pedestrian crossings with vehicular traffic have a defined crosswalk.
- Traffic signals are timed for a walking speed of two and eight-tenths feet per second, and there are walk/don't walk signs, auditory signals or other such elements.
- Minimum 75 percent shade coverage along the route and at gathering nodes.
- Two to three seating opportunities per block.
- Site furnishings that could include trash receptacles, telephone, drinking fountains, restrooms or pet waste container dispensers.
- Wayfinding and directional signs.
- Facilities include public art.
- Pocket parks and other planting opportunities.
- Transit stations with plenty of amenities.
- Conduct a detailed sign inventory by path or trail corridor and recommend specific locations for all sign types.

Pedestrian Activity Areas

DESIGN CONSIDERATIONS

- A 8- to 12-foot wide walkway, visually and functionally separate from the path of vehicles.
- A walkway surface that is smooth, slip-resistant, and without cracks, indents, or steep grade.
- Clear of protruding objects.
- Walkways are flat and straight and set back from curb so they don't meander around driveway crossings
- Driveway crossings are few.
- All changes in elevation have ramps and intersections corners have curb cuts for both directions or one broad cut servicing both crosswalks.
- The walkway is physically separated from vehicular traffic by at least two vertical or horizontal elements.
- At least one foot-candle of lighting at intersections and crosswalks and lights are spaced so there is spot to spot lighting.
- Pedestrian crossings with vehicular traffic have a defined crosswalk and may also include activated signal, median refuge or other such elements.
- Traffic calming improvements are introduced to slow vehicular speeds in appropriate areas off arterial streets.
- Traffic signals are timed for a walking speed of two and eight-tenths feet per second, and there are walk/don't walk signs, auditory signals or other such elements.
- Minimum 60 percent shade coverage along the pedestrian route and at gathering nodes.

E. Facilities

The following list are facilities that comprise the trails system. Some are existing, some need improvement or expansion, and some need to be built. All the facilities are integral to the system so are not prioritized in any manner. As development occurs and/or funding becomes available, the opportunity shall be taken to implement these projects. This list does not preclude other facilities from being proposed if they add to the connectivity or enhancement of the overall system. This list corresponds to the full size (36" x 48") Trail System Map and 11" x 17" downtown Tucson inset map.

Trails

Airport Wash North Fork Trail (T001)

The five-mile long Airport Wash North Fork Trail trends from the northwest to the southeast, from the Hughes/Alvernon Path that edges the airport to the proposed Sarnoff Drive alignment Greenway. It crosses the Swan Road, Wilmot Road, and Kolb Road south greenways. The middle section of the trail is a proposed greenway, Airport Wash North Greenway, which is one mile from Craycroft Road to Wilmot Road.

Arroyo Chico Wash Trail (T002)

The Arroyo Chico Wash Trail branches off from the Arroyo Chico Wash Greenway, where it turns south near Tucson Boulevard. The one-mile long trail connects the Greenway to the David Bell Path on Randolph Way.

Atturbury Connector Trail (T003)

The Atturbury Connector Trail is a one-mile long north-south trail that connects the two branches of the Atturbury Wash. It's midway between the east edge of Davis-Monthan AFB and Houghton Road Greenway.

Butterfield Stage Route Trail (T004)

The Butterfield Stage Route Trail includes 10.7 miles within Pima County. The trail begins at approximately Lambert Lane and branches away from the Santa Cruz River Park and parallels Interstate 10 up to the Pinal County boundary. The trail continues further north into Pinal County.

Central Arizona Project Canal Trail (T005)

The Central Arizona Project Canal Trail is a trail of National Significance, as discussed in the System Features chapter. In Pima County, the CAP Canal Trail is 42 miles long, generally trending north to south from the Pinal County boundary to Los Reales Road.

Cienega Creek Trail (T006)
The 10.6-mile long proposed Cienega Creek Trail begins where the Pantano Trail stops at Colossal Cave Road. It continues to the Gas Line Trail and intersects the Wentworth Road Path.

Civano Wash Trail (T007)
The Civano Wash Trail, one and one-half miles long, is at the upper end of Civano Wash. It starts at the intersection of Houghton and Irvington roads and trends southeast one mile to the Civano Wash North Greenway. From the south end of Civano Wash North Greenway, approximately Bilby Road, the trail picks up again and continues south to Poorman Road.

Columbus Boulevard Secondary Trail (T008)
This seven-tenths mile long trail diverges from the Columbus Boulevard Enhanced Corridor just south of Lazy Creek Drive, on the west side of Columbus Boulevard. It continues west and then north along Pebble Rapids Place and connects to the Rillito River Park.

Connection to Habitat for Humanity Trails Park Trail (T009)
This two and two-tenths mile long trail connects the Santa Cruz River Diversion Channel on the east to the Jacobs Trust property on the west. It provides access to the Habitat for Humanity Trails Park and intersects the Mission Road Path and Greasewood Road Greenway.

Coronado Ridge Wash Trail (T010)
The two and eight-tenths mile long Coronado Ridge Wash Trail branches off from the Estes Wash Greenway and continues south and east to the Melpomene Way Singletrack Trail. It intersects Houghton Road Greenway.

Douglas Park/Thomas Park Connection Trail (T011)
This one and one-half mile long trail connects Quincie Douglas Park and James Thomas Park. It starts at the Kino Parkway Path and intersects the El Paso and Southwestern Greenway.

Drexel Road Trail (T012)
The Drexel Road Trail parallels Drexel Road for a distance of almost two miles, from the Fantasy Island/Irvington Trail east to the Power Line Path. It intersects Houghton Road Greenway, Mesquite Ranch Wash Trail, and Civano Wash North Greenway.

Enchanted Hills Wash Trail (T013)
The Enchanted Hills Wash Trail is a two and eight-tenths mile long trail that follows the Enchanted Hills Wash from Mission Road west to the 36th Street Singletrack Trail. It intersects Greasewood Road Greenway and provides access to the 36th Street Trails Park.

Estes Wash Trail (T014)
The one and three-tenths mile long Estes Wash Trail is a continuation of the Estes Wash Greenway. It trends southeast from Houghton Road Greenway to the Melpomene Way Singletrack Trail.

Fantasy Island/Irvington Trail (T015)
The Fantasy Island/Irvington Trail is a one and four-tenths mile long north-south trail that connects Irvington Road Greenway south to Atturbury Wash North Fork Greenway, passing through the Fantasy Island Trails Park and intersecting Drexel Road Trail.

Gas Line Trail (T016)
The Gas Line Trail follows the gas line easement that parallels Interstate 10 on the north side of the freeway. The trail extends for 27 miles from Wilmot Road east to the Cochise County boundary.

Hidden Hills Wash Trail (T017)
The Hidden Hills Wash Trail is an extension of Hidden Hills Wash Greenway. It's a one-mile long trail connecting Houghton Road Greenway, just north of 29th Street, to Old Spanish Trail Path, midway between Avenida Los Reyes and Melpomene Way.

Houghton Road Trail (T018)
The Houghton Road Trail is a north extension of the Houghton Road Greenway. It extends five miles from Tanque Verde Wash to the Coronado National Forest boundary.

La Cañada Drive Trail (T019)
The La Cañada Drive Trail connects Cañada del Oro River Park on the north to the Rillito River Park on the south, a distance of approximately six and one-quarter miles. It intersects several singletrack trails and the Cortaro Farms Road Path.

Mesquite Ranch Wash Trail (T020)
The Mesquite Ranch Wash Trail is a one and one-half mile long trail that begins at Houghton Road Greenway, just south of Seven Generations Way and trends south to Poorman Road, crossing Drexel Road Trail.

Palo Verde Road Trail (T021)
The three and nine-tenths mile long Palo Verde Road Trail connects Palo Verde Greenway on the north to Rodeo Wash Greenway on the south. It intersects with the Julian Wash and Palo Verde greenways.

Pantano Wash Trail (T022)
The ten and two-tenths-mile long proposed Pantano Wash Trail begins at Houghton Road where the Pantano River Park terminates. It trends southeast along Pantano Wash to just west of Colossal Cave Road. It

intersects Civano Wash North Fork Greenway, Power Line Path, Rincon Creek Greenway, Valencia Greenway, Civano Wash Path, and Atturbury Wash Path.

Power Line Trail (T023)
The Power Line Trail is 12.3 miles long and connects the UPRR Greenway on the west to Houghton Road Greenway on the east. It intersects Hughes/Alvernon Path, and the Swan Road, Wilmot Road, Sarnoff Drive, Kolb South, and Old Vail Road/Harrison Road greenways.

Railroad Wash Trail (T024)
The Railroad Wash Trail is a proposed two and six-tenths mile long trail that connects Arroyo Chico Greenway on the north to El Paso and Southwestern Greenway on the south. It intersects the Barraza/Aviation Parkway and passes the Boys and Girls Club and James Thomas Park.

Reyes Wash Trail (T025)
The two-mile long Reyes Wash Trail connects Tanque Verde Singletrack Trail, just north of Speedway Boulevard, and Melpomene Way Singletrack Trail, at St. James Road.

Rita Ranch Trail (T026)
The two and eight-tenths mile long Rita Ranch Trail follows along the southwestern side of the Rita Ranch subdivision. It provides a connection between the Rita/Julian Wash Greenways Connector Trail and the Houghton Road Greenway. It also intersects the Rita Ranch Greenway.

Rita Ranch Two Trail (T027)
The Rita Ranch Two Trail is a short, seven-tenths mile long trail that branches off from Rita Ranch Trail, west of Houghton Road, and takes a more northerly route through the Rita Ranch subdivision to connect to Houghton Road.

Rita/Julian Greenways Connector Trail (T028)
This two-mile long trail follows a wash from east to west from the Rita Ranch Greenway to the Julian Wash Greenway. It provides access to the Rita Ranch Flood Control Basin Trails Park and intersects the Rita Ranch Trail.

Santa Cruz River Diversion Channel Trail (T039)
The three and eight-tenths mile long Santa Cruz River Diversion Channel Trail diverges from the main Santa Cruz River alignment and Santa Cruz River Park, just north of Irvington Road. It follows the diversion channel to the boundary of the San Xavier Indian Community. It can also be accessed from the West Branch Santa Cruz River Diversion Channel Greenway Trailhead.

Wentworth Road Trail (T030)
The proposed three-mile long Wentworth Road Trail follows Wentworth and Colossal Cave roads and connects Pantano Wash Trail to the Power Line Greenway. It intersects the Esmond Station Greenway and Gas Line Trail, which parallels Interstate 10 on the north side. The trail parallels the Wentworth Road Path, which is on the north side of the road.

Paths

1st Avenue Path (P001)
The proposed one and one-third mile long 1st Avenue Path connects the Tangerine Road Greenway on the north to the Lambert Lane Path on the south.

15th Avenue Path (P002)
The proposed 15th Avenue Path connects the Elm Street Enhanced Corridor on the north to the El Paso and Southwestern Greenway and University Boulevard Bike Boulevard on the south, a distance of approximately one mile. It passes Francisco Elias Esquer and Estevan parks.

Airport Wash Path (P003)
The Airport Wash Path begins at Nogales Highway, just north of Valencia Road. The path follows the wash from Nogales Highway to Valencia Road, east on Valencia Road to Country Club Drive, south to Los Reales Road, and east to Alvernon Way and the Hughes/Alvernon Path, a distance of approximately four and two-tenths miles.

Atturbury Wash Path (P004)
The proposed Atturbury Wash Path begins at the south end of the Atturbury Wash North Fork Greenway and extends east to Pantano Wash Trail, a distance of eight-tenths mile.

Barraza/Aviation Path (P005)
The Barraza/Aviation Path is located on the north side of Aviation Parkway and is approximately four and seven-tenths miles long. The path links Golf Links Bicycle and Pedestrian Path at its east end to downtown Tucson on the north. It passes the Snake Bridge and Eastmoor, Country Club, and Ironhorse city parks. The Barraza/Aviation Path would benefit from the installation of additional landscaping, particularly trees, and an eventual widening of the path from the current ten-foot width to the preferred 12 feet as user loads increase. As part of Downtown Links, the Barraza/Aviation Path extends north and west from the Snake Bridge to the 9th Avenue overpass.

Calle Buena Vista Path (P006)
The proposed half-mile long Calle Buena Vista Path connects Calle Concordia Singletrack Trail on the north to Hardy Road on the south. It intersects Carmack Wash Singletrack Trail.

Civano Wash Path (P007)
The proposed three and seven-tenths mile long Civano Wash Path diverges from the Atturbury Wash North Fork Greenway, south of Valencia Greenway and trends southeast to Pantano Wash Trail. It intersects the Power Line Path.

Cochie Canyon Trail Path (P008)
The Cochie Canyon Trail Path is a one and three-tenths mile long path connecting the Central Arizona Project and Butterfield Stage Route trails along Cochie Canyon Trail. It intersects the Tortolita Mountain Parkway Path at Adonis Road.

Cortaro Farms Road Path (P009)
The Cortaro Farms Road Path, six and nine-tenths miles long, connects the Silverbell Road Path to the La Cañada Drive Trail. It intersects the Santa Cruz and Cañada del Oro river parks.

Escalante Path (P010)
The Escalante Path is just over a mile in length, and stretches from Wilmot Road on the west to Kolb Road on the east. The pathway jogs at its west end, and includes two short segments along Calle Polar (1,250 feet) and Nicaragua Street (1,150 feet). This pathway could benefit from the installation of additional landscaping, particularly trees, and the path will eventually need to be widened to 12 feet to accommodate future use loads.

Glover Road Path (P011)
The proposed Glover Road Path follows Glover Road for one-quarter mile west of the La Cholla Boulevard Path.

Golf Links Path (P012)
The Golf Links Path is approximately four miles long, from Alvernon Way on the west end, where it connects with the Barraza/Aviation Path, to Alamo Wash Greenway on the east. The segment of path between Alvernon Way and Craycroft is located on the north side of Golf Links, where it connects to Freedom Park and Golf Links Sports Complex. The segment between Craycroft and Alamo Wash Greenway is located on the south side of the road. Golf Links Path provides a trail system link to the proposed Golf Links Trails Park. This path would benefit from widening the path to the 12-foot standard as user loads increase. It could also benefit from a bridge over the Craycroft/Golf Links intersection to allow

the path to transition from the north to the south side of Golf Links Road without requiring users to cross this high-volume intersection at grade.

Greasewood Path (P013)

Two short paved path segments presently exist along the west side of Greasewood Road: a quarter-mile long section between Anklam Road and the Broadway Boulevard alignment, and an 1,100-foot long segment situated between Starr Pass Boulevard and a point approximately 120 feet south of Brandy Crest Drive. Sufficient right-of-way exists to connect these two pathways, and connect multiple neighborhoods and Tolson Elementary School with Greasewood Park and Pima College.

Hughes/Alvernon Path (P014)

The proposed Hughes/Alvernon Path follows Hughes and Alvernon roads around the south and east sides of Tucson International Airport. The five and six-tenths mile long path connects the UPRR Greenway on the southwest to the Rodeo Wash on the northeast. In intersects the Power Line Trail, Airport Wash North Trail, and Airport Wash Path.

Kino Parkway Path (P015)

The proposed Kino Parkway Path connects the Barraza/Aviation Path on the north to the Julian Wash Greenway on the south, a distance of approximately two and eight-tenths miles. It passes Quincie Douglas Park and intersects the Douglas Park/Thomas Park Connection Trail and the El Paso and Southwestern Greenway.

Kolb Road Path (P016)

The Kolb Road Path has two segments, one on either side of Davis-Monthan AFB. The proposed north segment is a mile-long path located on the west side of Kolb Road; it provides a link between the east end of the existing Escalante Path and the west end of the future four-mile long Irvington Greenway. Because the corridor is narrow in this area, and grade differentials may be an issue, the path may need to be located on the edge of the Davis-Monthan AFB property, which would require the base's security fence be inset 20 feet. This could be feasible as the property in this section is owned by the City of Tucson, and the property is being used as part of the base's airplane storage facility, which has relatively low security requirements compared to the core of the base. The southern segment is approximately one and six-tenths miles long from Valencia Greenway to Julian Wash Greenway.

La Cañada Drive North Path (P017)

The proposed two-mile long La Cañada Drive North Path connects Naranja Road West Path on the south to Moore Road on the north. It intersects with Tangerine Greenway.

La Cañada Drive South Path (P018)
The proposed seven-tenths mile long La Cañada Drive South Path connects Lambert Lane on the north to Cañada del Oro River Park on the south.

La Cholla Boulevard Path (P019)
The La Cholla Boulevard Path is a half-mile long path that connects Glover Road Path on the north to Naranja Road West Path on the south.

Lambert Lane Path (P020)
The Lambert Lane Path is a two and one-third mile long path that connects La Cañada Drive South Path on the west to 1st Avenue Path on the east.

Lon Adams Road North Path (P021)
The Lon Adams Road Path is a half-mile long path between Moore and Barnett roads paths on the alignment of Lon Adams Road.

Lon Adams Road South Path (P022)
The Lon Adams Road South Path bisects the Gladden Farms subdivision. It extends one mile to connect the Moore Road and Tangerine Road paths.

Marana Anza East Path (P023)
The Marana Anza East Path is a one and seven-tenths mile long path on the east side of the Santa Cruz River, beginning at the south end at Cortaro Road.

Marana Anza West 1 Path (P024)
The Marana Anza West 1 Path is a three mile long path on the west side of the Santa Cruz River. It is accessed from Silverbell Road, a half mile north of Cortaro Road.

Marana Anza West 2 Path (P025)
The Marana Anza West 2 Path is a one and four-tenths mile long path on the west side of the Santa Cruz River, beginning at the north end at Cortaro Road.

Mission Road Path (P026)
The proposed five and four-tenths mile long Mission Road Path begins on the north end at Congress Road, where the Silverbell Road Path begins heading north. Mission Road Path continues south on Mission Road to the boundary of the San Xavier Indian Community. It intersects the proposed Cholla Wash, Connection to Habitat for Humanity, and Enchanted Hills Wash trails and Ajo Greenway.

Moore Road Path (P027)
The Moore Road Path is approximately two miles long. It connects the Butterfield Stage Route trail on the east to Tangerine Road Path on the west. It intersects Postvale Road and Lon Adams Road South paths.

Naranja Road East Path (P028)
The Naranja Road East Path extends approximately one-tenth mile west of Copper Creek Drive on Naranja Road.

Naranja Road West Path (P029)
The Naranja Road West Path is approximately one mile long and connects La Cholla Boulevard Path on the west to La Cañada Drive North Path on the east.

Old Spanish Trail Path (P030)
The Old Spanish Trail Path presently stretches from Broadway Boulevard to the main gate of the Rincon Mountain District of Saguaro National Park. The path was originally constructed at eight feet wide. Several short segments adjacent to new subdivisions have been installed at the preferred 12-foot wide path standard. The Old Spanish Trail Path was originally intended to extend from Broadway Boulevard all the way east to Colossal Cave Mountain Park, a distance of 16.8 miles, and this plan re-confirms that intent. In fact, several segments of the path have already been constructed in the Rincon Valley as new subdivisions have developed. The primary challenge to overcome to construct a continuous path from Broadway Boulevard to Colossal Cave Mountain Park is a narrow section of right-of-way about two miles south of the current end of the pathway at Saguaro National Park's main gate. There are precipitous drop-offs a few feet from the existing east edge of pavement in this area that will require adjusting the roadway in order to fit the path into this stretch of corridor.

Postvale Road Path (P031)
The Postvale Road Path is a one-mile long path that connects Tangerine Road Path on the south to Moore Road Path on the north.

Power Line Path (P032)
The proposed Power Line Path begins on the north at the Pantano Wash Trail and extends seven miles south to the Gas Line Trail that parallels Interstate 10 on its north side. In intersects Drexel Road Trail, Civano Wash South Greenway, Valencia Greenway, Civano Wash Path, Atturbury Wash North Fork Greenway, and Esmond Station Greenway.

Robb Wash Path (P033)
The Robb Wash Path departs from the Old Spanish Trail Path just south of Broadway Boulevard and continues south one mile to 22nd Street, just west of Camino Seco. It intersects the Arroyo Chico Greenway.

Sanders Road Path (P034)
The Sanders Road Path is just under one mile long. It follow Sanders Road from Grier Road on the north to approximately Ohms Way on the south. It intersects Barnett Road Greenway.

Silverbell Road Path (P035)
The proposed 16-mile Silverbell Road Path follows Silverbell Road from Congress Street on the south to Twin Peaks Road on the north. It intersects or passes several features including: Christopher Columbus Park, Cortaro Farms Road Path, and numerous singletrack trails.

Speedway Path (P036)
The Speedway Path is just a quarter-mile long, ten-foot wide path, located on the north side of Speedway between Saddlewood Ranch Drive on the east and Camino de Juan on the west. However, this short path receives a surprising amount of use from local residents. Opportunities to expand the path within the Speedway right-of-way, and to link the path to the City of Tucson's Greasewood Park, should be considered.

Tangerine Road Path (P037)
The Tangerine Road Path is a four and one-quarter mile long path that circles south to east from Barnett Road Greenway to Interstate 10. It intersects Moore Road, Lon Adams Road South, and Postvale Road paths, and Unnamed 22 and Unnamed 23 paths.

Tortolita Mountain Parkway (P038)
The Tortolita Mountain Parkway Path is three and one-third mile long. It is along the proposed Tortolita Mountain Parkway, but not built. It connects to Adonis Road on the south.

Unnamed 22 Path (P039)
A two-mile long path from Tangerine Road Path on the south to Butterfield Stage Route Trail, just south of the Barnett Road Greenway, on the north. It intersects Moore Road Path.

Unnamed 23 Path (P040)
A one and seven-tenths mile long path from Tangerine Road on the south to Lon Adams Road North Path on the north. It intersects Postvale Road and Moore roads paths.

Wentworth Road Path (P041)
The proposed three-mile Wentworth Road Path follows Wentworth and Colossal Cave roads and connects Pantano Wash Trail to the Power Line Greenway. It intersects the Esmond Station Greenway and Gas Line Trail, which parallels Interstate 10 on the north side. The path parallels the Wentworth Road Trail that is on the south side of the road.

Wilderness Path (P042)
The Wilderness Path is a two-mile long path that parallels Rancho Sahuarita Boulevard, about one-half mile to the west, just beyond Camino Tierra Alegro. It creates a loop with Rancho Sahaurita Boulevard.

Wilmot Road Path (P043)
The three-quarter mile Wilmot Road Path connects Golf Links Road Path on the north to Escalante Path on the south.

River Parks

River Parks are essential to the Pima Regional Trail System. They are green corridors with paths and trails located along the metropolitan area's major watercourses, and are the broadest and most highly developed elements of the trail system. Per existing County ordinances, River Parks are intended to be a minimum of 100 feet in width or wider, and to be developed at the Divided Urban Pathway standard, on both sides of the river, to safely accommodate the widest spectrum of users, including walkers, runners, equestrians, cyclists, roller bladers, wheelchair users, stroller pushers, and more. Examples of River Parks include the Santa Cruz, Rillito, Pantano, and Tanque Verde river parks.

River Parks are also major elements of the community's green infrastructure system and provide a wide range of related benefits, including reducing the urban heat island effect, urban wildlife habitat, aesthetic enhancement, and shade. The provision of a high quality River Park system also provides opportunities for alternate modes of transportation. Connectivity with other trails, workplaces, shopping, parks, schools, residential communities, and more will be stressed as the system develops to achieve maximum functionality.

Big Wash River Park (RP001)
The Town of Oro Valley intends to build a river park along Big Wash from the confluence of Big Wash and the Cañada del Oro Wash to the Pinal County boundary. Big Wash River Park will include a paved shared-use path on the east side of the wash. The alignment has been established to a point north of the Hospital - but from there north it is still undetermined; potentially it could be eight miles long. The current plans for development do not call for full river park development but it has been identified in the RTA as a River Park so it is being kept in the river park classification.

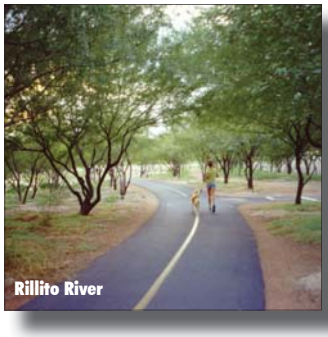
Cañada del Oro River Park (RP002)
The Cañada del Oro (CDO) Wash corridor stretches approximately ten miles from Oracle Road on the east to its confluence with the Santa Cruz River on the west. The wash continues into Catalina State Park and northeast through the Catalina area into Pinal County, but only the segment west of Oracle Road will be developed as a River Park. The CDO passes through three local jurisdictions: Oro Valley, unincorporated

Pima County, and Marana. Funding provided through the 1997 and 2004 Bond Programs has allowed the River Park to develop in both Oro Valley and Pima County.

Pantano River

Pantano River Park (RP003)

The ten-mile long Pantano River Park is located on the east side of the metropolitan area. The Pantano River Park corridor begins at the northern end of the Cienega Creek Preserve and terminates at its confluence with the Rillito River and the Tanque Verde Wash. Developing River Parks on both banks of the Pantano will be a challenge. Development encroached into the River Park corridor over the past thirty years, making retrofitting a difficult and expensive task. At the south end of the Pantano corridor, a geographic feature called the Pantano Bluffs, located on the west bank, represents a significant challenge for River Park siting. A number of significant drainages and erosion cuts in this area will need to be addressed to implement the River Park. Despite these challenges, development of the Pantano River Park is underway, and many segments offer excellent opportunities for development, such as portions of the west bank, south and north of Broadway, next to closed landfill sites.


Rillito River

Rillito River Park (RP004)

The Rillito River Park is Tucson's most used River Park and the nearest to completion. The 12-mile long corridor, located at the base of the foothills of the Santa Catalina Mountains, connects the Santa Cruz River with the Tanque Verde and Pantano washes. While a variety of major impediments still exist on both river banks, considerable progress has been made over the years. However, there are a variety of projects currently pending.

Santa Cruz River Park/Anza National Historic Trail (RP005)

The Santa Cruz River Park was the Tucson metropolitan area's first River Park. Planning for the Santa Cruz River Park began in the late 1970s, and the first development project was implemented in the early 1980s. Despite its status as the original River Park in the shared use pathway system, this park has significant gaps, and a number of segments that are now aging to the point that they need to be redeveloped and brought up to current standards. Some segments are also very narrow and need to be widened. The Juan Bautista de Anza National Historic Trail is located along the west side of the Santa Cruz River corridor, and provides the park with a valuable historic feature (also see the section of Trails of National Significance). The 60-mile Santa Cruz corridor crosses three jurisdictions: Marana, Tucson, and Pima County.

Tanque Verde River Park (RP006)

The Tanque Verde River Park will be developed between Tanque Verde Road and the Rillito River, a distance of approximately three and one-half miles (the portion that is suitable for river park development).

Development suitability relates to the extent of existing bank protection which provides the necessary pre-requisite for River Park development—a stable bank and the acquisition of some of the right-of-way necessary to accommodate the River Park. The remaining portion of Tanque Verde Wash, east of Tanque Verde Road, is noted under Singletrack Trails.

Greenways

Greenways exist throughout the United States and are defined in a variety of ways, as the following definition drawn from Charles E. Little's book *Greenways for America* demonstrates:

> *Greenway: n. 1. A linear open space, established along either a natural corridor such as a riverfront, stream valley, or ridge line, or overland along a railroad right-of-way converted to recreational use, a canal, a scenic road, or other route. 2. Any natural or landscaped course for pedestrians or bicycle passage. 3. An open space connector linking parks, nature reserves, cultural features, or historic sites with each other and with populated areas. 4. Locally, certain strip or linear parks designated as parkway or greenbelt. (American neologism: green + way; origin obscure).*

For these projects, a greenway is defined as "a linear pathway within a landscaped corridor of varying widths that is not located along one of the community's major watercourses." The first greenway to be developed in the metropolitan area was the Tucson Diversion Channel segment of the Julian Wash Linear Park, which is now known as the Paseo de Lupe Eckstrom. Because the Julian Wash Linear Park is not a River Park in the conventional sense, it has been included in the greenway category, and, in the interest of simplicity and consistency, its name has been changed to the Julian Wash Greenway.

Development of the Julian Wash Greenway was followed in 2001 by the Houghton Greenway, the first section of which was created as a part of the Mesquite Ranch Subdivision. Since that time, greenway planning and development has accelerated significantly and a number of greenway projects are either underway or in the planning stages around the metropolitan area, including: the Camino Loma Alta Greenway in the Rincon Valley; the El Paso and Southwestern Greenway in downtown Tucson; the Arroyo Chico Greenway in midtown Tucson; the Rodeo Wash Greenway in southwest Tucson; and the Rita Greenway in Rita Ranch. A total of 53 greenways are identified in this plan, but opportunities to create new greenways in developing parts of the community, or as retrofits into already developed areas, should continue to be explored.

Airport Wash Greenway (G001)

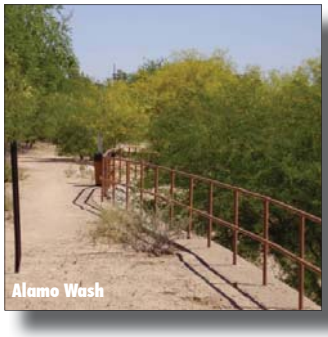
The proposed Airport Wash Greenway is approximately two and four-tenths miles in length, and connects the Santa Cruz River Park to Nogales Highway. The wash corridor exceeds 200 feet in width in some places, and is an excellent candidate for greenway development. The corridor links the Santa Cruz River Park, Tucson Spectrum "power center," several neighborhoods, and the Airport. This corridor may become a demonstration project for the Tucson-Pima County Green Infrastructure Plan.

Airport Wash North Greenway (G002)

The Airport Wash North Greenway is approximately one and one-tenths mile long. It trends east to west from Wilmot Road Greenway. At either end of the greenway it connects to the Airport Wash North Trail.

Ajo Way Greenway (G003)

The Ajo Way Greenway is a proposed 14-mile long green corridor that trends east to west from Santa Cruz River Park to Sandario Greenway. It crosses Mission Road Path, Manzanita Greenway, and several singletrack trails including Central Arizona Project and Black Wash.


Alamo Wash

Alamo Wash Greenway (G004)

The Alamo Wash is a nine-mile corridor through midtown. The alignment of the greenway loosely follows the Alamo Wash and will take on many forms along its route. It will include segments located along the Alamo Wash as well as alley and street-side segments. The route begins at Escalante Road, east of Kolb Road, and ends at Rillito River Park. It will connect many prominent recreational, cultural, and educational destinations including Palo Verde High School, the Park Place Mall, Whitmore Elementary School, Dodge Traditional Magnet School, Wheeler Elementary School, Tucson Medical Center, Pantano River Park, and several midtown parks.

Arcadia Wash Greenway (G005)

The Arcadia Wash Greenway is a multi-use path through midtown that connects the Alamo Wash Greenway to the Golf Links Road Path. The alignment of the greenway loosely follows the Arcadia Wash. It will include segments along the Arcadia Wash, as well as street-side segments. The seven-mile Arcadia Wash Greenway will connect many prominent recreational, cultural, and educational destinations including Davis-Monthan AFB, Corbett Elementary School, Rincon High School, Arroyo Chico Greenway, the Williams Center business complex, Third Street Bicycle Boulevard, the Crossroads Festival Shopping center, Tucson Medical Center, and several midtown parks.

Arroyo Chico Greenway (G006)

The Arroyo Chico Greenway is almost 13.5 miles long. The east half of Arroyo Chico Greenway links Randolph Park on the west to Old Spanish Trail Path on the east, a distance of six miles. It intersects Arcadia Wash Greenway, Sahuara Avenue Bicycle Boulevard, Alamo Wash Greenway, Rose Hill Wash Greenway, Pantano River Park, and Robb Wash Path. In addition to Randolph Park, it connects Linden, Stefan Gollob, and Palo Verde parks to the surrounding neighborhoods. There are also several schools along the route: Vail Middle, Rogers Elementary, Kellund Elementary, and Steele Elementary.

The west half of Arroyo Chico Greenway west segment is a three-mile long, multi-use path connecting Reid Park with downtown. The Greenway will include segments following the Arroyo Chico and Citation washes, as well as street-side and alley segments. This Greenway provides regional connectivity by making connections with other paths and bicycle routes including the Arroyo Chico Greenway, the proposed Treat Avenue Bicycle Boulevard, David Bell Path at Reid Park, Barraza/Aviation Path, the Highland Avenue bicycle lanes, and the downtown links bicycle/pedestrian path that leads to the El Paso and Southwestern Greenway and the Santa Cruz River Park west of downtown. The route will connect recreational, cultural, and educational destinations including Reid Park, Robison Elementary School, Howenstine Magnet High School, the University of Arizona athletic complex, Cherry Fields sports complex, Ironhorse Park, San Antonio Park, El Con Mall, the Doubletree Hotel on Alvernon, Hardesty Service Center, Randolph Recreation and Tennis Center, several churches, and numerous downtown destinations.

The east and west segments of the Arroyo Chico Greenway connect along the north sides of Reid and Randolph parks, a distance of just under two miles. The Arroyo Chico Greenway also encompasses what was the David Bell Bike Path. The path presently encircles the east half of Reid Park, a distance of almost three miles. The path is popular with cyclists, runners, walkers, skaters, wheelchair users, and stroller pushers. It is set to be expanded using funding secured from the RTA shared use pathways program. The new segment will encircle the remaining west portion of Reid Park, and will add almost one and one-half miles to the Greenway.

Atturbury Wash Greenway (G007)

The Atturbury Wash Greenway is a planned recreational corridor that will generally follow the Atturbury Wash from Houghton Road Greenway (south of Valencia Greenway) north to the Pantano River Park. It will serve as a link between several important community facilities and will enable the restoration of portions of the wash that were previously disturbed. This

Atturbury Wash

greenway will feature a path, trail, landscape improvements, and other site amenities such as seating areas and drinking fountains. The length of the corridor is approximately five and six-tenths miles long but is divided in the middle by Davis-Monthan AFB. Atturbury Wash Greenway will connect several parks, recreation areas, and community facilities. These include (from south to north) Fantasy Island Trails Park, Pima Community College East Campus, the City of Tucson's Clements Community Center, Lincoln Regional Park, Atturbury/Lyman Wildlife Sanctuary, Santa Rita High School, Lakeside Park, Ford Elementary School, and Carson Middle School.

Atturbury Wash North Fork Greenway (G008)

The Atturbury Wash North Fork Greenway begins at Fantasy Island Trails Park on the north and trends southeast for approximately seven and six-tenths miles to near Mary Ann Cleveland Way. It continues as Atturbury Wash Path east to Pantano Wash Trail.

Atturbury Wash South Fork Greenway (G009)

The Atturbury Wash South Fork Greenway is approximately one and nine-tenths miles long. It trends northwest to southeast and is approximately half way between Esmond Station Greenway and Atturbury Wash North Fork Greenway, southwest of Mary Ann Cleveland Way.

Avra Valley Greenway (G010)

The proposed Avra Valley Greenway would be located along Avra Valley Road near Marana, and would traverse a distance of approximately 15 miles, from Interstate 10 on the east to Pump Station Road on the west. This proposed greenway provides many linkages, including, from east to west, the Santa Cruz River and Anza National Historic Trail, the CAP National Recreation Trail, Marana's BOR Regional Park, the Marana Northwest Airport, Sandario Greenway, and Ironwood Forest National Monument.

Barnett Road Greenway (G011)

The Barnett Road Greenway is a two and two-tenths mile long path that connects the Butterfield Stage Route Trail to the Sanders Road Path. It also intersects Lon Adams Road North Path and Tangerine Road Path.

Broadway Boulevard Greenway (G012)

The proposed two and one-half mile long Broadway Boulevard Greenway would be along the north side of Broadway Boulevard, roughly from the Snake Bridge and Ironhorse Park to El Con Mall. The Broadway Boulevard Greenway could be planned and executed as a part of the Broadway Boulevard widening project. Developing the Broadway Boulevard and Arroyo Chico greenways would establish a mid-town loop that would provide recreational and alternative transportation mode opportunities to a large number of area residents.

Camino Loma Alta Greenway (G013)
The Camino Loma Alta Greenway is located on the east side of Camino Loma Alta and totals five and one-half miles in length. It stretches from Colossal Cave Road north to Saguaro National Park. Several short segments of the greenway have already been constructed as part of residential development projects. It intersects Old Spanish Trail Path, Rincon Creek Greenway, and several singletrack trails.

Citation Greenway (G014)
The one and six-tenths-mile long Citation Greenway is a proposed route that connects Reid Park and the David Bell Path with the proposed 100-acre Golf Links Trails Park property and Golf Links Road Path. The corridor is narrow in places, and crosses both 22nd Street and Alvernon Way. Most of the corridor is already in public ownership, including the north end where it crosses a site owned by Pima County.

Civano Wash North Greenway (G015)
The Civano Wash North Greenway is approximately one and three-tenths miles long. It begins just south of Pantano Wash Trail and extends south to approximately Bilby Road where it becomes the Civano Wash Trail.

Civano Wash South Greenway (G016)
The Civano Wash South Greenway is a short greenway that begins at Poorman Road and Power Line Path and trends southeast and south for eight-tenths of a mile.

El Paso and Southwestern Greenway (G017)
The El Paso and Southwestern Greenway is the region's lone rails-to-trails conversion project to date. It traverses approximately three and one-half miles of the decommissioned El Paso and Southwestern rail corridor from the vicinity of the University Boulevard alignment to Pima County's Kino Environmental Restoration Project. An additional three miles is new. A conceptual master plan for the El Paso and Southwestern Greenway was prepared by the Drachman Institute in 2005, and was adopted by the Tucson City Council for use as guidance in the development of the greenway. The Regional Transportation Authority program, approved by the voters in May 2006, included $3.2 million in funding for the development of the greenway, and a federal Transportation Enhancements grant has been secured to help implement the initial phase of the project. The first segment of the greenway is being developed as a part of Tucson's Fire Central headquarters building, and a new detailed master plan is presently being prepared using a portion of RTA funding.

Esmond Station Greenway (G018)
The proposed Esmond Station Greenway is approximately five miles in length and follows an abandoned rail line. It extends from the

Houghton Road Greenway through the Esmond Station site down to Wentworth Road. In addition to its historic value, the greenway will provide a link to a large park that will be built by the City of Tucson around the Esmond Station site.

Estes Wash Greenway (G019)
The Estes Wash Greenway begins at Tanque Verde Singletrack Trail, midway between Harrison and Houghton roads, and continues two and three-quarter miles south and east to Houghton Road Greenway. Near its terminus at Tanque Verde Singletrack Trail, it intersects the Coronado Ridge Wash Trail. At its terminus at Houghton Road, it connects to the Estes Wash Trail which continues further south and east. Between Broadway Boulevard and 22nd Street, it provides access to Case Park.

Flato Wash Greenway (G020)
The Flato Wash Greenway is a proposed greenway that trends west to east from the UPRR Greenway to the Sonoita Greenway, a distance of over 18 miles. It intersects the Swan, Wilmot, Sarnoff, and Houghton road greenways.

Franco Wash Greenway (G021)
The Franco Wash Greenway is a proposed greenway that trends west to east from Old Vail Road to Houghton Road, a distance of eleven and four-tenths miles. It connects the Old Vail/Harrison, Swan, Wilmot, and Sarnoff greenways with the Houghton Road Greenway. It crosses through the Southeast Regional Park.

Greasewood Road Alignment Greenway (G022)
The Greasewood Road Alignment Greenway is one and one-quarter miles long and connects Cholla Wash Trail on the north to Explorer Singletrack Trail on the south. It intersects two trails - the connection to Habitat for Humanity Trails Park and Enchanted Hills Wash.

Hidden Hills Wash Greenway (G023)
The Hidden Hills Wash Greenway begins at Tanque Verde Singletrack Trail, midway between Camino Seco and Harrison Road, and continues four and one-tenths miles southeasterly to Houghton Road Greenway. There are four schools in the vicinity of the Greenway: Academy of Tucson Elementary, Tucson Country Day, Wrightstown Elementary, and Gridley Middle. At its terminus at Houghton Road, the greenway connects to Hidden Hills Wash Trail which continues further south and east.

High School Wash Greenway (G024)
The two-mile long High School Wash Greenway connects Barraza/Aviation Path to Wilson Avenue, intersecting the Highland Avenue Enhanced Corridor and Tucson High Magnet School.

Houghton Greenway (G025)

The Houghton Greenway is on the east side of Houghton Road. It is planned for almost the entire 21 miles of roadway, from Camino Aurelia at its south end to as far north as existing right-of-way will allow, which is approximately Tanque Verde Singletrack Trail. North of Tanque Verde Singletrack Trail, the existing right-of-way is considerably narrower and the greenway becomes Houghton Road Trail, on the east side of the road. The concept for the Houghton Greenway is to link the Santa Catalina and Nogales ranger districts of the Coronado National Forest.

Irvington Greenway (G026)

The Irvington Greenway is located on the south side of Irvington Road, and extends from Houghton Road to Kolb Road, a distance of four miles. The Irvington Greenway would link the Houghton Road Greenway with the proposed Kolb Road Path, as well as the Fantasy Island Trails Park, Atturbury Greenway, Lincoln Park, and Kinnison Wash Greenway. There is considerable public right-of-way along the south side of Irvington Road where the greenway could traverse the four miles virtually uninterrupted. Irvington Greenway is the eastern end of a group of paths that connect downtown Tucson all the way to Houghton Road via the Barraza/Aviation, Golf Links, Wilmot, Escalante, and Kolb road paths.

Julian Wash Greenway (G027)

The Julian Wash Greenway stretches approximately 18.4 miles across the southern edge of Tucson, from the Santa Cruz River to Houghton Road Greenway. The Julian Wash Greenway is the southern leg of the Urban Loop. The western most portion of the greenway coincides with the Tucson Diversion Channel, the greenway improvements of which are called the Paseo de Lupe Eckstrom. Several segments of the Julian Wash Greenway have either been developed or are pending development, including a 2004 Pima County Bond project crossing the University of Arizona's Science and Technology Park.

Kinnison Wash Greenway (G028)

The proposed Kinnison Wash Greenway would stretch two and one-half miles from the intersection of Irvington and Kolb roads to Lakeside Park along the Kinnison Wash. At the Irvington and Kolb intersection, the greenway would link with the proposed Irvington Greenway and/or the proposed Kolb Road Path, and, at its northern end, a connection from the Kinnison Greenway could be fashioned with the Atturbury Wash Greenway at Lakeside Park. At its southern end, the Kinnison Wash crosses through an 80-acre parcel of State Trust Land that could be acquired and made into a Kinnison Trails Park. The greenway also connects to Groves Park.

Kolb South Greenway (G029)
The Kolb South Greenway is a three and seven-tenths mile long greenway. It extends south from the Julian Wash Greenway at Via Rio Pico to a mile south of Old Vail Road/Harrison Road Greenway. It intersects Airport Wash North and Power Line trails.

Manzanita Greenway (G030)
The Manzanita Greenway is located along the west side of Westover Road in a corridor formerly owned by El Paso Natural Gas, and is approximately three and seven-tenths miles in length. The corridor runs from Ajo Way Greenway on the north end to Gas Pipeline Singletrack Trail, approximately 3,500 feet south of Valencia Road. The proposed greenway is a broad corridor, up to 300 feet wide, with potential for development of a trail with lush desert vegetation and various park nodes along its length. The Greenway could provide access to Manzanita Park and Robles Pass Trails Park.

Navajo Wash Greenway (G031)
The Navajo Wash Greenway begins at Glenn Street Enhanced Corridor and continues north to Hedrick Drive where it turns west and extends to Santa Cruz River Park, a total length of approximately five and one-third miles. Navajo Wash is sometimes called Cemetery Wash at its west end. There are segments of the 'wash' that could be improved because they are no more than an inverted crown at the center line of a street. Navajo Wash Greenway links Mountain Avenue, Stone Avenue, and Fairview Avenue enhanced corridors.

Old Vail/Harrison Greenway (G032)
The proposed 12.6 miles long Old Vail/Harrison Greenway begins at the intersection of Old Vail Road and the UPRR Greenway. It continues east on Old Vail Road and turns south at the Harrison Road alignment and continues south to the proposed Franco Wash Greenway. It intersects the proposed Swan, Wilmot, Kolb South, and Sarnoff greenways.

Palo Verde Greenway (G033)
The three and one-quarter-mile long Palo Verde Greenway is capable of connecting the proposed Golf Links trails park with the Barraza/Aviation Path, the Kino Environmental Restoration Project, and the Julian Wash Greenway. This alignment has challenges, primarily the crossing of major roads such as the Barraza Parkway and Ajo Way and some land is needed to make the route continuous. However, the majority of the corridor is in public ownership, easing greenway implementation.

Power Line Greenway (G034)
The proposed Power Line Greenway begins at Power Line Trail on the west, where it intersects with Houghton Road Greenway. It continues east

along the power line easement for six miles until it intersects with Sonoita Greenway.

Rancho Valencia North Greenway (G035)

The branched Rancho Valencia North Greenway is a total of one and two-tenths miles in length. The main segment is one mile from Swan Road Greenway east to the approximate Lantana Vista Drive alignment. This segment connects two portions of the Rodeo Wash Greenway. The short branch of the greenway is approximately two-tenths of a mile long and connects the main segment to Interstate 10.

Rincon Creek Greenway (G036)

The proposed Rincon Creek Greenway is approximately four and six-tenths miles in length and traverses the south side of Rincon Creek from the creek's confluence with Pantano Wash across Rocking K Ranch to the Camino Loma Alta Greenway. Land for the greenway corridor was secured across Rocking K Ranch in 1996 as a condition of approval of the Rocking K Ranch Specific Plan. A separate agreement, called the Rocking K Ranch Trails and Park Sites agreement, contains details regarding the corridor and other trails that cross the Rocking K property. The Rincon Creek Greenway would connect with the 39-acre Rocking K District Park site, located directly across Old Spanish Trail from the Rincon Creek General Store.

Rita Ranch Greenway (G037)

The Rita Ranch Greenway is located along the north edge of Rita Road within the Rita Ranch subdivision. The greenway is approximately three miles long and connects Houghton Road Greenway on the east to Julian Wash Greenway on the south. An extension into the University of Arizona's Science and Technology Park is also possible. The first segment of the Rita Greenway, across the Fry's shopping center property at its east end, has been constructed. The development of additional segments will require Transportation Enhancement grant funding or the creation of a dedicated funding source.

Robb Wash Greenway (G038)

The Robb Wash Greenway connects, on its north end, Tanque Verde Singletrack Trail and, on its south end, the Old Spanish Trail Path at Broadway Boulevard. It is approximately two and four-tenths miles long.

Rodeo Wash Greenway (G039)

The Rodeo Wash Greenway is approximately 10.5 miles long, and extends from the Santa Cruz River Park to Wilmot Road Greenway. One segment of the greenway has already been constructed as a part of the new Tres Pueblos development project between Campbell Avenue and Country Club. Rodeo Wash Greenway links a river park, three parks, two detention basins, and four schools.

Rolling Hills Wash Greenway (G040)
The Rolling Hills Wash Greenway is a two and two-tenth miles long greenway that starts at Pantano River Park and continues east and south to its terminus at Golf Links Road.

Rose Hill Wash Greenway (G041)
The Rose Hill Wash Greenway begins at 22nd Street on the south and continues north to Pantano River Park, almost six miles. The greenway skirts around Dorado Country Club golf course. Rose Hill Wash Greenway intersects Arroyo Chico Greenway and Third Street Bicycle Boulevard.

Sabino Canyon Road Greenway (G042)
The Sabino Canyon Road Greenway is a proposed four and six-tenths miles long greenway that connects the Tanque Verde River Park on the south to the Coronado National Forest on the north, approximately one and one-third miles north of Sunrise Drive.

Sahaurita Greenway (G043)
The Sahuarita Greenway is located along the north side of Sahuarita Road, and runs from Mission Road on its west end to Highway 83 on its east end, a distance of approximately 24 miles. The Greenway connects the Town of Sahuarita, Santa Cruz River Park/Anza National Historic Trail, Houghton Greenway, and the Arizona Trail (a singletrack trail). The majority of the route is presently undeveloped, making future implementation easier.

Sandario Greenway (G044)
The Sandario Greenway is a proposed greenway that, like Houghton Greenway, covers a considerable distance—a total of 20 miles, from Avra Valley Road to the Ajo Highway. Sandario Greenway would be located along the west side of Sandario Road, and would connect to both Ajo Highway Greenway, Avra Valley Greenway, the CAP National Recreation Trail, and Marana High School.

Sarnoff Drive Greenway (G045)
The proposed Sarnoff Drive Greenway, nine and seven-tenths miles long, would follow the Sarnoff Drive alignment, on the east side of the road, south from Julian Wash Greenway to Sahuarita Greenway. It intersects the proposed Old Vail/Harrison, Franco, Flato, and Southlands greenways.

Sonoita Greenway (G046)
The proposed Sonoita Greenway would be located along the west side of Highway 83, between Interstate 10 and Sahuarita Road, a distance of approximately two and nine-tenths miles. The greenway would link Power Line, Flato, and Sahuarita greenways, and the Arizona Trail (a singletrack

trail). It would also connect with a new trailhead at the intersection of Sahuarita Road and Highway 83.

Southlands Greenway (G047)
The Southlands Greenway is a proposed 10.8 mile long greenway between the UPRR and Houghton Road greenways. The greenway provides another east/west greenway alignment between the Flato and Sahuarita greenways with an approximate 2-mile spacing.

Swan Road Greenway (G048)
The proposed 12 mile long Swan Road Greenway is on the east side of Swan Road from Rodeo Wash Greenway to Sahuarita Road Greenway. It intersects the Airport Wash North and Power Line trails, and the proposed Old Vail/Harrison, Franco, Flato, and Southlands greenways.

Sycamore Canyon Greenway (G049)
The Sycamore Canyon Greenway is approximately two and seven-tenths miles long, along the east side of the Harrison Road and Sycamore Leaf Road alignments within the Sycamore Canyon subdivision, located one mile west of Houghton Road and one mile south of Sahuarita Road. Additional paths will be constructed in this 1,100 home subdivision in the future. The pathway links this new neighborhood with the Sahuarita Road Greenway.

Tangerine Greenway (G050)
The proposed Tangerine Greenway would be located along the north side of Tangerine Road from the Santa Cruz River corridor to the vicinity of Big Wash in the Town of Oro Valley, a distance of approximately 14.5 miles. This corridor represents a regional link across the extreme northwest metropolitan area, and would connect Big Wash River Park with the Santa Cruz River Park and the CAP Trail. With planning underway for development at all four corners of Tangerine and Interstate 10, the time is now to determine how best the Tangerine Greenway and the CAP Trail will pass through this area.

UPRR Greenway (G051)
The UPRR Greenway begins where Airport Wash Greenway ends, just north of Valencia Road, and continues 12.6 miles south to Sahuarita Greenway. It connects Hughes/Alvernon Path, and Old Vail/Harrison, Flato, and Southlands greenways.

Valencia Road Greenway (G052)
The Valencia Greenway is located on the east end of the Valencia corridor, between Valencia Road's connection with Rincon Creek Greenway to Kolb Road Path, a distance of approximately seven and one-half miles.

Regional trail connections include the Houghton, Atturbury Wash, and Atturbury Wash North Fork greenways.

Wilmot Road Greenway (G053)

The proposed 11 mile long Wilmot Road Greenway is on the east side of Wilmot Road from Julian Wash Greenway to Sahuarita Road Greenway. It intersects Rodeo Wash Greenway, Airport Wash North Greenway, Power Line Trail, and the proposed Old Vail/Harrison, Franco, Flato, and Southlands greenways.

Enhanced Bicycle/Pedestrian Corridors

Enhanced bicycle/pedestrian corridors generally follow existing local or collector streets that carry a relatively low volume of automobile traffic. They are intended to be safe and attractive corridors that encourage bicycle and pedestrian use. Essential improvements include continuous bicycle lanes and continuous sidewalks with handicap ramps. Landscape plantings, street furniture, transit shelters (where appropriate), and public art should also be included along these corridors.

10th Avenue/12th Avenue (EC001)

The 10th Avenue/12th Avenue corridor begins in downtown Tucson and extends five and eight-tenths miles south to Valencia Road. It intersects four greenways—El Paso and Southwestern, Julian Wash, Rodeo Wash, and Airport Wash.

Columbus Boulevard (EC002)

The Columbus Boulevard is a half-mile, north-south collector street located between Alvernon Way and Swan Road, both of which are designated arterial streets. Columbus Boulevard extends from the Rillito River on the north to 32nd Street and Davis-Monthan AFB on the south, approximately five and one-half miles. It is proposed that Columbus Boulevard be enhanced to provide safe and attractive bicycle and pedestrian facilities along this corridor. When completed, the Columbus Boulevard Enhanced Corridor will connect several residential neighborhoods, Roberts Elementary School, Naylor Middle School, Lineweaver Elementary School, Wright Elementary School, the Lighthouse Branch of the YMCA, McCormick Park, and the Rillito River Park.

Elm Street (EC003)

Elm Street is an east-west corridor halfway between Speedway Boulevard and Grant Road. It connects Fairview Avenue Enhanced Corridor on the west to Wilmot Road on the east, approximately seven and eight-tenths miles long. Elm Street Enhanced Corridor connects several schools and intersects four other enhanced corridors, Treat Avenue Bike Boulevard, and two greenways.

Escalante Road (EC004)
The Escalante Road corridor begins at Kolb Road, at the corner of Davis-Monthan AFB, and continues two and six-tenths miles east to Pantano River Park. It intersects three greenways—Alamo, Kinnison, and Atturbury Wash.

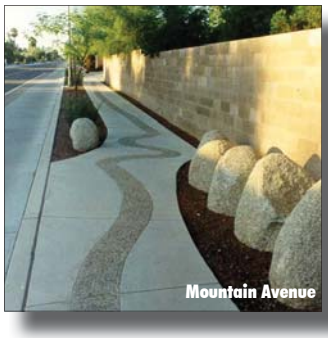
Fairview Avenue (EC005)
Fairview Avenue passes through several neighborhoods, public parks, commercial areas, and industrial districts. If developed as an Enhanced Corridor, it has the potential to connect residential areas with districts where people shop, work, and play.

Fairview Avenue terminates on the north at Rillito River Park. It extends south past the Auto Mall, to Jacobs Park and Ochoa Park. These are active recreational parks, with sports fields, playgrounds, and a swimming pool. The Jacobs Branch of the YMCA is located within Jacobs Park.

Glenn Street (EC006)
The Glenn Street corridor begins at Fairview Avenue Enhanced Corridor and extends six miles east to Arcadia Wash Greenway. It intersects four other enhanced corridors, Treat Avenue Bike Boulevard, and two greenways.

Highland Avenue (EC007)
The Highland Avenue corridor begins at the University of Arizona Campus and continues south seven-tenths of a mile to the Arroyo Chico Greenway, crossing High School Wash and Broadway Boulevard greenways.

Mountain Avenue (EC008)
Mountain Avenue is, in many ways, the prototype for the Enhanced Corridor proposed for the City of Tucson and Pima County. The corridor features conventional automobile traffic lanes, bicycle lanes buffered by a strip of textured pavement, transit stops, transit shelters, pedestrian walkways, street lights, and landscape.


Mountain Avenue

The Mountain Avenue corridor extends north from the University of Arizona campus to the Rillito River Park, a distance of three and three-quarter miles. At the south end of the corridor, several grade-separated and signalized at-grade crossings of Speedway Boulevard allow members of the University community to gain access to the corridor. From campus, it extends north connecting several residential neighborhoods, Salpointe High School, and Rio Vista Elementary School. At the north end of the corridor, a bicycle/pedestrian-only bridge spans the Rillito River and connects Mountain Avenue Enhanced Corridor with the Rillito River Park.

To help ameliorate on-campus parking problems, the University of Arizona operates a free shuttle service along Mountain Avenue. This

allows individuals to ride the shuttle to campus or park in remote, off-campus locations and conveniently travel to the University.

The section of Mountain Avenue from 2nd Street to Fort Lowell Road has been improved with the features noted above. Improvements to the Fort Lowell Road to Limberlost Road section have been designed but not constructed.

Ruthrauff/Wetmore (EC009)

The recommended enhanced portion of this east-west corridor begins at the Santa Cruz River and Ruthrauff Road and continues east to the half-mile street between La Cholla Boulevard and Flowing Wells Road, turns south to Wetmore Road and continues east to 1st Avenue, a total distance of approximately four and eight-tenths miles.

Stone Avenue (EC010)

Stone Avenue extends from the Tucson central business district north to River Road, a distance of approximately four and one-half miles. The corridor currently has poorly developed facilities for bicycle and pedestrian traffic, but potential as an Enhanced Corridor. With enhanced corridor improvements, the corridor could connect the downtown business district, Pima Community College's Downtown Campus, the 3rd Street Bike Boulevard, Prince Elementary School, Amphitheater Middle School, Don Hummel Neighborhood Park, the Tohono – Transit Center, Tucson Mall, and Rillito River Park.

A pilot project along the corridor was recently completed by the City of Tucson between 6th Street and University Boulevard. The bicycle, pedestrian, and landscape improvements constructed as part of this project demonstrate the potential for the Stone Avenue corridor.

Tucson Boulevard (EC011)

Tucson Boulevard is a north-south street that extends through central Tucson. Like Mountain Avenue, it is a collector street that carries a lower volume of automobile traffic than Campbell Avenue to the west or Country Club Road to the east. It is, however, a principal collector street and will remain as such.

The goal for this five and one-half mile long corridor should be to provide continuous, safe, and attractive bicycle and pedestrian facilities along the full length of the corridor, from Barraza/Aviation Parkway on the south to Rillito River Park on the north. Developed in this manner, Tucson Boulevard has the potential to serve and encourage alternate modes of transportation along the entire corridor with connections to the Barraza/Aviation Path, Arroyo Chico Greenway, 3rd Street Bike Boulevard, Himmel Park, Cragin Elementary School, and Rillito River Park.

Bike Boulevards

Bicycle boulevards are a corridor, typically following a local street or streets, with a low volume of automobile traffic. Local automobile traffic is allowed on these streets, but traffic controls are designed to give priority to bicycles. Features such as TOUCAN signaling systems are used at intersections were appropriate. Four bike boulevard projects are listed here as examples. They are four of 47 possible City of Tucson bike boulevard projects, all of which are listed Appendix A-3).

3rd Street (BB001)

The 3rd Street Bikeway is an east-west bicycle link that provides an opportunity for individuals residing in central Tucson to safety commute to the University of Arizona campus by bicycle. The east leg of the bike boulevard originates at the Campbell Avenue entrance to the University campus and extends east to Wilmot Road, a distance of approximately six miles. The corridor generally follows the 3rd Street alignment but departs from 3rd Street in a few locations as needed to follow the local street system. The western leg of the bike boulevard extends from the Park Avenue gateway to the University campus west to Stone Avenue.

The corridor features a low-volume of automobile traffic with on-street parking. Traffic control signs restrict automobile access to the corridor in some locations and the posted speed limit does not exceed 30 mph. Key elements of the 3rd Street Bikeway are the traffic control features provided where the corridor crosses major north-south streets, such as at Tucson Boulevard. In this location, a TOUCAN user-activated cross-signaling system has been installed to enhance bicycle safety.

Sahuara Avenue Bike Boulevard (BB002)

The Sahuara Avenue Bike Boulevard begins on the north end at the Alamo Wash Greenway and ends at Golf Links Bicycle and Pedestrian path on the south. This corridor links Park Place into the trail system.

Treat Avenue Bike Boulevard (BB003)

The Treat Avenue Bike Boulevard begins on the north end at the Rillito River and ends at Barraza/Aviation Bicycle and Pedestrian path at the south.

University Bike Boulevard (BB004)

The University Bike Boulevard is on University Boulevard, beginning at the west side of the University of Arizona campus and ending at the El Paso & Southwestern Greenway.

Trails Parks

One of the primary differences between the original *Eastern Pima County Trail System Master Plan* and this update is the addition of an important new feature: a system of what the trails community calls *trails parks*.

As a result of the experience of working to save the Fantasy Island Trails Park, parks planners learned that recreational trail users are seeking high-quality, recreational trail opportunities—preferably single track trails—in a natural resource setting close to where they live or work. Fantasy Island has attracted visitors from as far away as New Hampshire, Vancouver, Canada, and even the United Kingdom. Trails parks are a key step between the urban pathways that many communities have and the trail systems in natural resource parks, which typically require more time and effort to access.

Trails parks can:

- Serve the recreational needs of a wide range of users.
- Create unique institutions that could be marketed as a reason to visit the community.
- Relieve recreational pressure on the existing large open space preserves located around the metropolitan area.
- Create an opportunity to brand and promote Pima County's trails.
- Create a quality of life element that can be marketed to potential corporate re-locators and large events and conventions.
- Add a valuable element to the region's protected green infrastructure.

The opportunity still exists in Tucson's rapidly-growing community to create trails parks around the City's fringe. The existing and proposed units described in this section of the Regional Trail System Master Plan represent an unparalleled opportunity to create a set of unique institutions that will impact quality of life and the economic future for generations to come. Additional trails park development opportunities may be discovered as the units included in this plan are implemented.

36th Street Properties Trails Park (TP001)

Immediately north of 36th Street, at the road's west end, are a series of privately-owned properties that Pima County has identified for possible addition to Tucson Mountain Park. These four foothill properties, which total almost 240 acres, are scenic and contain outstanding Sonoran Desert habitat. However, they have been impacted over the years by four-wheel drive and all-terrain vehicles. Consistent with the 2008 Tucson Mountain Park Management Plan, which seeks to satisfy recreational demand on the periphery of the park while reducing human visitation

into the park's sensitive core, Pima County proposes the development of a trails park on these 36th Street properties to help meet that goal. The proposed 36th Street trails park could be linked to the regional trail system by connecting it with property, slated for donation to Pima County by El Paso Natural Gas, located on the eastern edge of the proposed trails park.

A7 Ranch (TP002)

Pima County acquired the A7 Ranch from the City of Tucson in 2004 using 2004 Pima County Open Space Bond funding. The ranch, located in the eastern portion of the Redington Pass area, consists of 6,828 acres of fee property and 30,000 acres of grazing leases over Arizona State Trust Land. The A7 Ranch is remote and scenic, and could offer recreational trail opportunities for hikers, mountain bikers, and equestrians. Like other ranches, the primary goal at A7 Ranch is to preserve open space, but trail connections can occur across the property.

Agua Caliente Park (TP003)

A 20-acre parcel, immediately west of Houghton Road and bisected by Agua Caliente Creek, could become a small equestrian trails park. The park could be expanded to more than 30 acres if a wide portion of the Houghton Road right-of-way, which abuts the proposed trails park, is included in the footprint. Use of this property would be subject to the approval of the Pima County Regional Flood Control District.

Atturbury Trails Park (TP004)

The City of Tucson owns more than 2,000 acres of property encompassing the Atturbury Wash within the eastern extent of Davis-Monthan AFB. This property contains a long, braided segment of the wash and a considerable amount of high quality desert habitat. More than 1,400 acres of the 2,000 have not been impacted by base operations and are in excellent natural condition. In the future, the property, which presently houses a shooting range, may no longer be needed for its current purpose. Should that time arrive, the property could be designated as a natural preserve and would make an ideal equestrian/hiking facility. It would complement the neighboring Fantasy Island, the primary users of which are mountain bikers.

Canoa Ranch (TP005)

Pima County's 5,000-acre Canoa Ranch property is both an open space preserve and an important historic site. The Ranch, which includes a number of historic structures which will eventually be restored, encompasses a five-mile long segment of the Juan Bautista de Anza National Historic Trail. The Canoa Ranch property offers additional opportunities for recreational trail development, particularly trails for equestrians, consistent with its adopted master plan. Like other ranches,

the primary goal at Raul M. Grijalva Canoa Ranch is to preserve open space, but trail connections can occur across the property.

CAP Trails Park (TP006)

Along the eastern side of the CAP canal are long stretches of protected federal property associated with the canal called "green-up areas." These green-up areas, which can be 1,000 feet in width, offer opportunities to develop additional recreational trails linked to the future CAP Trail, and can become stand-alone trails parks. Some of the green-up properties are located near existing residential neighborhoods and the new trails proposed for these properties could become recreational amenities for these nearby residents.

Catalina Regional Park (TP007)

In the wake of flooding along Cañada del Oro Wash in the Catalina area, Pima County initiated a program of flood prone land acquisition that allowed the County to assemble enough land to create a park along the wash. This park will maintain a rural character and include recreational trails for equestrians, serving the large numbers of nearby horse properties.

Empirita Ranch (TP008)

Pima County's Empirita Ranch property is located immediately south of Interstate 10 near the Empirita Exit. It is the site of a historic ranch operation and has long been coveted by equestrians who would like the property to become an equestrian trails park and horse camp that could be used as a base for trail riding opportunities into the Empire-Cienega Resource Conservation Area and the Whetstone Mountains and for group rides and events. Creation of a "horse hotel," a facility where horse owners traveling cross-country with their animals could stay overnight, has also been proposed for the Empirita site. Local horse clubs have indicated an interest in adopting the property and becoming stewards of the site. Located immediately east of the property is more than 1,400 acres of BLM land, which provides additional opportunities for equestrian trail development. Like other ranches, the primary goal at Empirita Ranch would be to preserve open space but trail connections could occur across the property.

Fantasy Island

Fantasy Island Trails Park (TP009)

Fantasy Island Trails Park is the region's first trails park. A 348-acre tract of natural open space located on the southeast corner of Houghton and Irvington roads, this park is located on Arizona State Trust Land property. This unauthorized park, created by mountain bikers who had lost a nearby trail system to development, contains a popular 12-mile trail system. The trails community supported the designation of the site as recreational open space in the Houghton Area Master Plan, and for

the State Land Department to include it in its conceptual development plan for the area, making conservation of the property possible. The trail system will need to be redesigned to enhance its sustainability because a number of alignments currently require constant maintenance.

Feliz Paseos Universal Access Park (TP010)

Feliz Paseos is a 50-acre park which provides trail opportunities for wheelchair users in a beautiful open space setting with outstanding views. It features an accessible trail system with several loops to choose from, each with a different surface. The park has accessible interpretive exhibits and site amenities. Feliz Paseos is a model upon which additional parks will be designed.

Golf Links Trails Park (TP011)

The proposed Golf Links trails park is a 100-acre parcel of surplus federal land located east of Alvernon Road and north of the Golf Links Road alignment in what used to be the northwest comer of Davis-Monthan AFB. The property is presently connected to the Regional Trail System by the segment of the Barraza/Aviation Path that traverses the property. This surplus property has potential for the creation of a trails park for runners, walkers, and cyclists, and could be connected to midtown Tucson and Reid Park by the proposed Citation Greenway, and to the Julian Wash Greenway by the proposed Palo Verde Greenway.

Greasewood Park (TP012)

Tucson's 160-acre Greasewood Park is a natural open space park with several miles of walking trails. Some potential exists to create additional trails on the site, including trails for users with physical challenges, consistent with the park's master plan. The *Pima Regional Trails Master Plan Update* proposes to link Greasewood Park with Sentinel Peak Park by creating a new connector trail that crosses the Arizona Game and Fish Department's property, continues along the south side of Anklam Road, and then crosses the State Land property to connect with Sentinel Peak Park.

Green Valley West Desert Preserve (TP013)

Green Valley is a retirement community located south of Sahuarita. In 2006, a local group of activists initiated a proposal to create a large open space preserve on the western edge of Green Valley called the Green Valley West Desert Preserve. The property is composed of approximately 2,017 acres of State Trust Land and has several trails used by Green Valley mountain bikers, hikers, and walkers, with potential for the creation of additional trails, including trails for users with physical

challenges. The proposal to have this property set aside in perpetuity has tremendous support in Green Valley, and is also supported by the adjacent Phelps Dodge Sierrita Mine, which would like to maintain the open space as a buffer between Green Valley and its mining operation. If not, alternative methods to protect it should be considered.

Habitat for Humanity Park (TP014)

In the spring of 2008, Pima County acquired a 79-acre property located north of 36th Street and east of La Cholla that was formerly owned by Habitat for Humanity. The property, which contains a segment of a natural wash that flows out of the Tucson Mountains foothills, is part of an effort to re-establish a biological corridor between the Tucson Mountains and the Santa Cruz River. The property, which is composed entirely of natural open space, has trail development potential and could become a quality-of-life feature for the adjacent neighborhoods. Pima County parks staff envisions a three-mile loop trail for the park.

Indian Kitchen Trails Park (TP015)

The proposed Indian Kitchen Trails Park is a 1,313-acre property located immediately west of the Mission Road/Helmet Peak Road intersection and is presently administered by the U.S. Bureau of Land Management (BLM). The property has been designated for disposal by BLM and is available to Pima County through the R&PP program (see Page 28). Pima County is exploring the possibility of dedicating this property, which is rich in cultural and natural resources, as a protected habitat site; however, if that designation does not occur, Indian Kitchen could become a trails park for equestrians and mountain bikers.

Julian Basin Trails Park (TP016)

The proposed Julian Basin Trails Park is proposed in the retention basin adjacent to the Julian Wash and Kolb Road South greenways. The Gas Line Trail along the north side of Interstate 10 is located just to the south.

Kinnison Wash Trails Park (TP017)

An 80-acre parcel of Arizona State Trust Land straddles the Kinnison Wash just north and east of the intersection of Kolb and Irvington roads. This property, which also abuts Tucson's Groves Park, is connected to the Regional Trail System by the Kinnison Wash Greenway, which has connections in the immediate area to Irvington Greenway, Kolb Road Path, and Atturbury Wash Greenway.

McKenzie Ranch (TP018)

Pima County's 1,700-acre McKenzie Ranch property is located southeast of Tucson, about one-half mile north of Interstate 10 and 2000 feet east of the east end of Marsh Station Road. The property, which is exceptionally scenic and has superb views of the mountain ranges to

the south of the Interstate 10 corridor, has trail development potential. The McKenzie Ranch trails park would have access to the Arizona Trail and the Cienega Creek Preserve via the proposed 11-mile Cochise Trail, which will also connect the property to Pima County's Walden Ranch property, approximately one and one-half miles southeast of the McKenzie property. Like other ranches, the primary goal at McKenzie Ranch would be to preserve open space but trail connections could occur across the property.

Marana Tortolita Preserve (TP019)

In 2002, the Town of Marana acquired approximately 2,400 acres of State Trust Land north of Tangerine Road and created the Marana Tortolita Preserve. The Preserve, immediately west of the Dove Mountain development, is composed of high-quality natural Sonoran desert, and is part of the alluvial fan of the Tortolita Mountains. The Preserve has an existing trail system and, because of its soft soil conditions, is better suited to equestrians and hikers than mountain bikers. However, the Preserve's trails are open to all non-motorized users. The Preserve is connected to the Regional Trail System through the Wild Burro Wash corridor, which provides a link to Tortolita Mountain Park and the CAP Trail's Tangerine Trailhead.

Mullins Landfill (TP020)

The Mullins Landfill, located adjacent to Udall Park and the Pantano River Park, has the potential to become a trails park. This large property could be sculpted into a site with varying terrain and replanted with native desert vegetation, creating a trails park that could be used by hikers, runners, mountain bikers, and equestrians.

Rancho Seco (TP021)

Ranch Seco is located in Altar Valley. The property consists of 9,700 acres of fee property owned by Pima County and 12,000 acres of grazing leases over Arizona State Trust and BLM lands. On the western boundary of the property are a stretch of Sopori Wash and a portion of the border with the Buenos Aires National Wildlife Refuge. Like other ranches, the primary goal at Rancho Seco is to preserve open space, but trail connections can occur across the property.

Rincon Valley Trails Park (TP022)

The Rincon Valley Trails Park is a proposed trails park opportunity in the Colossal Cave Mountain Park area. The site is adjacent to X9 Ranch Road, one and one-half miles north of Old Spanish Trail.

Rita Ranch Flood Control Basin Trails Park (TP023)

The City of Tucson owns a 48-acre flood control basin located immediately west of the Rita Ranch subdivision that could become a small trails park. The property is connected with the Rita Ranch neighborhood by the wash

corridors that drain into the basin. These washes have flat banks at least 20 feet in width that could accommodate recreational trails. The basin could also be linked to the Julian Wash Greenway by creating a small connector trail between the basin and the greenway. An accessible loop trail could be developed around the perimeter of the park to provide opportunities for users with physical challenges.

Robles Pass Trails Park (TP024)

The 1,000-acre Robles Pass property is located between Ajo Highway and Irvington Road, approximately one mile west of Mission Road. The property is considered part of Tucson Mountain Park. Consistent with Pima County's intent to protect the core of Tucson Mountain Park by satisfying recreational demand on the edges of the park, the Robles Pass Trails Park will feature a ten- to twelve-mile trail system for hikers, equestrians, and mountain bikers. The lot will have space for more than 50 cars and a large equestrian staging area. A management plan for the Robles Pass Trails Park has been prepared and approved and the park is presently under development.

Rodeo Wash Trails Park (TP025)

The proposed Rodeo Wash Trails Park is located at the southeast corner of Valencia Road and Alvernon Way, in a bend of the Rodeo Wash Greenway. The proposed site is a three-acre retention basin.

Sentinel Peak Park (TP026)

Tucson's Sentinel Peak Park, home of 'A' Mountain, is situated west of downtown and is a 290-acre natural resource park. The property is home to one trail and has room for the development of additional trails. This park could be linked to Greasewood Park as described above.

Silverbell Road Trails Park (TP027)

The Silverbell Road Trails Park site is located south of Sunset Road and west of Silverbell Road Path and Santa Cruz River Park.

Sweetwater Preserve

Sweetwater Preserve (TP028)

The 700-acre Sweetwater Preserve property was acquired in 2005 using funding from the 2004 Pima County Open Space Bond Program. Because the funding for the acquisition was drawn from the Community Open Space category of the Open Space Bond, the Sweetwater property is intended to provide a wide range of benefits to the community, including recreational trails for hikers, equestrians, and mountain bikers. A management plan was prepared for the Sweetwater Preserve in 2007, and the Park's 10.4-mile long trail system was constructed in 2007-2008 by the Pima County Natural Resources, Parks, and Recreation Department. The trail system is already being used by residents and

visitors, and is rapidly becoming one of the most popular recreational trail systems in the Pima County area.

Sweetwater Preserve

Valencia Trust Land Trails Park (TP029)
The Arizona State Land Department controls 400 acres of property north of Valencia Road that could become a natural resource trails park. The property, located immediately north of the Rita Ranch neighborhood, is within the noise contour for Davis-Monthan Air Force Base and can't be used for residential development. The property is relatively flat, well-suited for trails, with outstanding views in all directions.

Walden Ranch (TP030)
Like the McKenzie Ranch property, Pima County's 480-acre Walden Ranch is located southeast of the Tucson metropolitan area in the foothills of the Rincon Mountains, north of Interstate 10. The property is about one and one-half miles southeast of McKenzie Ranch, immediately south of the existing Union Pacific rail line. The property features rolling hills and excellent views to the south and east. A trails park could be developed on the property. Like other ranches, the primary goal at Walden Ranch would be to preserve open space but trail connections could occur across the property. Unlike the other trails parks, this would be a hikers-only facility.

West Lambert Lane Trails Park (TP031)
The West Lambert Lane Trails Park is an existing park located on the north side of Lambert Lane between La Cañada Drive and La Cholla Boulevard. It features a two-loop trail system with views of Pusch Ridge and the Catalina Mountains.

Other Possible Trails Parks Sites

Flood Control Basins. A number of flood control basins exist around the Tucson metropolitan area that could be integrated into the Regional Trail System through the development of pathways that could circle these basins. Examples include the Rodeo Wash basin south of Valencia and east of Alvernon, and the existing basin east of Kolb at the Julian Wash, both of which are controlled by Pima County. These and other basins should be considered as possible trails parks or trail system elements capable of serving adjacent neighborhoods and regional system users.

Closed Landfills. Closed landfills offer the potential for the development of recreational trails parks. One example is the closed Mullins Landfill, mentioned previously. Several other landfills to consider exist along the Pantano corridor and elsewhere.

Borrow Pits. Borrow pits are among the hardest kinds of all "drosscapes" to adapt for other uses. A number of borrow pits exist around the metropolitan area—including the pits along the Santa Cruz River between

Orange Grove and Sunset roads—that could be used in the future as trails parks. These and other borrow pits should be given consideration as plans are prepared for their re-use.

Tucson Water Properties. Tucson Water has acquired a large amount of property in recent years for their water rights, including more than 30,000 acres in Avra Valley. Some of these properties—particularly the ones previously impacted by agricultural uses—could be sites for equestrian trails parks.

City of Tucson Open Space Properties. A number of properties around the metropolitan area are elements of the City of Tucson's real estate portfolio and have been designated for retention as natural open space. These properties include a pair of parcels totaling 138.3 acres along the west side of Silverbell Road, south of the Sweetwater Drive alignment. A ridgeline trail could be developed on these properties for the benefit of area neighbors, and could be linked to the Silverbell/Columbus Park across the street.

Other surplus public properties. Any other suitable property owned by local, state, or federal government agencies that is considered surplus or could somehow be acquired at reasonable cost should be evaluated for addition to the trails park system, particularly properties adjacent to river parks or greenway corridors, or other elements of the regional trail system.

Trailhead Facilities

Trailheads, Entry Nodes, and Boundary Access Points

Assuring safe, secure, and orderly access to the trail systems located on the local, state, and federal open space preserves that surround the Tucson metropolitan area was one of the driving forces behind the original *Eastern Pima County Trail System Master Plan*. The regional partners have been committed to securing public access to these lands for more than twenty years with considerable success. Access is a critical element of the regional trails program; without it, many of the community's outstanding trails would not be accessible to residents and visitors. The Regional Trail System Master Plan base map identifies the major existing and proposed trailheads, entry nodes, and access points around and in the Tucson basin.

Trailheads, all sizes and types, are listed below and given the designation of TH or THE, the latter being a trailhead with equestrian facilities. The TH or THE is followed by (S) or (L) for small or large. Refer to the standards section for descriptions on what the expectations are for a small or large facility. The reader should bear in mind that Trails Parks, listed in the previous section, are also considered trailheads because they have trailhead facilities and offer access to trails but are not listed again

in this section. Entry nodes are not designated or identified specifically in this section. They are described in concept in the Standards section and should occur wherever possible. Boundary Access Points are listed with Trailheads but are given the designation of BAP and a separate numbering system.

Bar V Ranch

Davidson Loop North Boundary Access Point (BAP001)
Access point to Davidson Canyon on the Davidson Loop Singletrack Trail on the east side of the preserve.

Davidson Loop South Boundary Access Point (BAP002)
Access point to Davidson Canyon on the Davidson Loop Singletrack Trail on the east side of the preserve.

Cañada del Oro

La Cañada/Rancho Feliz Trailhead (TH[S]001)
Potential small trailhead located on south bank of the Cañada del Oro, just west of La Cañada Drive, along Rancho Feliz Drive.

Overton Arts Center Trailhead (TH[S]002)
Potential small trailhead. The site is currently owned by Pima County.

Pusch View Lane Trailhead (TH[S]003)
Potential small trailhead location on the south side of Cañada del Oro at Pusch View Lane.

Riverfront Park Trailhead (THE[S]004)
Existing small equestrian trailhead location is on the north side of Cañada del Oro near Corbett Lane. The trailhead includes a ramada and water.

Thornydale Trailhead (TH[L]005)
Potential trailhead location is on the south side of Cañada del Oro, which can be incorporated into future commercial developments.

YMCA Trailhead (TH[S]006)
Trailhead parking to access the Cañada del Oro River Park west of Shannon Road is located at the YMCA facility, which is at the southeast corner of Shannon and McGee roads.

Catalina State Park Expansion

Bowman Road Boundary Access Point (BAP003)
Access point to the Catalina State Park expansion area where the Bowman Road Singletrack Trail intersects the area boundary, on the Rollins Road alignment.

Cañada del Oro North 1 Boundary Access Point (BAP004)
Access point to the Catalina State Park expansion area where the Cañada del Oro Singletrack Trail enters the area, near the Meadowcrest Road alignment.

Cañada del Oro North 2 Boundary Access Point (BAP005)
Access point to the Catalina State Park expansion area where the Cañada del Oro Singletrack Trail enters the area, south of the Meadowcrest Road alignment.

Cañada del Oro North 3 Boundary Access Point (BAP006)
Access point to the Catalina State Park expansion area where the Cañada del Oro Singletrack Trail enters the area, near the Rollins Road alignment.

Cedar Breaks Boundary Access Point (BAP007)
Access point to the Catalina State Park expansion area where the Cedar Breaks Singletrack Trail enters the area.

Flat Rock/ Catalina North Boundary Access Point (BAP008)
Access point to the Catalina State Park expansion area where the Flat Rock Trail Singletrack Trail enters the area.

Flat Rock/ Catalina South Boundary Access Point (BAP009)
Access point to the Catalina State Park expansion area where the Flat Rock Trail Singletrack Trail enters the area.

Golder Ranch Loop Boundary Access Point (BAP010)
Access point to the Catalina State Park expansion area on Golder Ranch Loop Singletrack Trail.

Little Cottonwood Boundary Access Point (BAP011)
Access point to the Catalina State Park expansion area on Little Cottonwood Wash Singletrack Trail.

Swan Road alignment Boundary Access Point (BAP012)
Access point to Catalina State Park expansion area on the Swan Road alignment.

Central Arizona Project Canal

Avra Valley Road Trailhead (THE[L]007)
A large staging area for the CAP Trail has been proposed for the Marana Bureau of Reclamation Regional Park site, approximately 2,800 feet east of the CAP canal and immediately south of Avra Valley Road. The trailhead will be integrated into Marana's master plan for the Bureau of Reclamation Park.

Tangerine Trailhead (THE[L]008)
A trailhead serving the CAP Trail has been proposed for the area immediately east of the CAP canal and approximately 1,900 feet north of Tangerine Road. The proposed trailhead will serve hikers, mountain bikers, and equestrians. In addition to providing access to the CAP Trail, the Tangerine Trailhead will also connect to the west end of Wild Burro Wash Trail, providing access to the Wild Burro Trail, Marana's Tortolita Preserve, and Tortolita Mountain Park.

Cienega Creek Natural Preserve

Agua Verde Link North Boundary Access Point (BAP013)
Access point to Cienega Creek Natural Preserve on Cienega Creek Trail, north of Interstate 10.

Agua Verde Link South 1 Boundary Access Point (BAP014)
Access point to Cienega Creek Natural Preserve on Agua Verde Link Trail, near Interstate 10.

Agua Verde Link South 2 Boundary Access Point (BAP015)
Access point to Cienega Creek Natural Preserve on Agua Verde Link Trail in Section 7.

Agua Verde Link South 3 Boundary Access Point (BAP016)
Access point to Cienega Creek Natural Preserve on Agua Verde Link Trail in Section 17 at the south end of the Preserve parcel.

Colossal Cave Road Trailhead (THE[S]009)
An undeveloped dirt parking area south of Colossal Cave Road at the north end of the Cienega Creek Preserve, this trailhead has room for approximately ten cars and two horse rigs and provides access to the Preserve. A paved lot is planned. Note: A permit is required to access the Preserve.

Davidson Trailhead (TH[S]010)
The Davidson Trailhead is a small trailhead on the south side of Marsh Station Road, about a half-mile south of Pantano Wash. It provides access to Cienega Creek Natural Preserve.

Gas Pipeline Boundary Access Point (BAP017)
Access point to Cienega Creek Natural Preserve from the west along the Gas Pipeline Singletrack Trail, about one-half mile south of Interstate 10.

Gas/Power Middle Boundary Access Point (BAP018)
Access point to Cienega Creek Natural Preserve from the south along the Gas/power Middle Singletrack Trail, just north of Interstate 10.

Total Wreck Wash Boundary Access Point (BAP019)
Access point to Cienega Creek Natural Preserve where Total Wreck Wash enters the Preserve on the south side.

Colossal Cave Mountain Park

Colossal Cave North Trailhead (TH[S]011)
The Colossal Cave North Trailhead will be located immediately east of Old Spanish Trail just outside the front gate of Colossal Cave Mountain Park, and will provide access to the Old Spanish Trail Path and trails within the park.

Colossal Cave South Trailhead (TH[S]012)
The Colossal Cave South Trailhead will be located immediately south of Colossal Cave Road just outside of Colossal Cave Mountain Park's south gate. The trailhead will provide access to the Arizona Trail within Colossal Cave Mountain Park.

Lower Agua Verde Creek Boundary Access Point (BAP020)
Access point to Colossal Cave Mountain Park from the south along Lower Agua Verde Creek, about two-thirds of a mile west of Agua Verde Road.

Posta Quemada Ranch Trailhead (THE[S]013)
The Posta Quemada Ranch's main paved parking lot doubles as a trailhead staging area for the Arizona Trail within Colossal Cave Mountain Park. The trailhead is accessible during park hours through the Park's main gate on Old Spanish Trail, and is available for use by hikers, mountain bikers, and equestrians.

Power Line Boundary Access Point (BAP021)
Access point to the expansion of Colossal Cave Mountain Park from the east along Power Line Singletrack Trail.

Coronado National Forest - Santa Catalina Ranger District

Agua Caliente Hill South Trailhead (THE[S]014)
This trailhead is a 16-car, 4-horse rig paved parking lot at the end of Camino Cantil within the Palo Verde Estates subdivision, located at the east end of Fort Lowell Road. The trailhead, located on Forest property, provides access to the Coronado National Forest's Agua Caliente trail system.

Agua Caliente Park Trailhead (TH[S]015)
The public parking lot on the park's east end doubles as a staging area for access to the Agua Caliente area of the Coronado National Forest for hikers and mountain bikers. Equestrians can also stage at the nearby Agua Caliente Hill South Trailhead—see above. Forest access from the end of adjacent Roger Road is under negotiation.

Agua Verde Link Boundary Access Point (BAP022)
Access point to Coronado National Forest from the south, just east of Agua Verde Road.

Agua Verde North Fork Boundary Access Point (BAP023)
Access point to Coronado National Forest, from the south, five miles east of Agua Verde Road.

Arrowhead Boundary Access Point (BAP024)
Access point to Coronado National Forest two miles east of Agua Verde Road.

Avenida de Suzenu Trailhead (THE[S]016)
This staging area is actually side-of-the-road parking at the north end of Avenida de Suzenu, a residential dirt road in the far northeast corner of the Tucson Basin. Hikers and equestrians must pass through a gate and walk east down a private section of Horsehead Road to get to the Forest boundary. This route provides access to the Agua Caliente region of the Forest and its trail system and to scenic Agua Caliente and Milagrosa canyons; however, it is presently the subject of an access challenge.

Bear Canyon Trailhead (THE[S]017)
A primitive dirt parking area located along the Bear Canyon Road right-of-way near its northern end, the Bear Canyon Trailhead presently has room for about ten vehicles. Trail users can follow the undeveloped County dirt road north a short distance to access to the Bear Canyon region of the Coronado National Forest and the Bear Canyon Trail. Bicyclists are not permitted beyond the end of the road where the trail enters a federally-designated wilderness area.

Buehman Canyon South Boundary Access Point (BAP025)
Access point to Coronado National Forest from the east where Buehman Canyon Singletrack Trail intersects the Forest boundary.

Campbell Trailhead (TH[S]018)
A small paved parking area maintained by Pima County at the north end of Campbell Boulevard, the Campbell Trailhead connects to a fenced corridor that provides general access to the Coronado National Forest, but not to a designated trail.

Canyon del Salto Boundary Access Point Boundary Access Point (BAP026)
Access point to Coronado National Forest from the west, eight-tenths mile north of Redington Road.

Canyon Vista Road Boundary Access Point (BAP027)
Access point to Coronado National Forest from the west along Chalk Mine Road/Edwin Road Singletrack Trail.

Cherry Canyon Boundary Access Point (BAP028)
Access point to Coronado National Forest where the Whetstone Singletrack Trail intersects the Forest boundary.

Davidson Canyon Boundary Access Point (BAP029)
Access point to Coronado National Forest where the southern branch of the Davidson Canyon Singletrack Trail intersects the Forest boundary, near where Sonoita Highway enters the park.

Distillery Canyon Boundary Access Point (BAP030)
Access point to Coronado National Forest three and one-half miles east of Agua Verde Road, near Red Hill Ranch Road.

Edgar Canyon Boundary Access Point (BAP031)
Access point to Coronado National Forest from the east where Edgar Canyon Singletrack Trail intersects the Forest boundary.

Elephant Head Boundary Access Point (BAP032)
Access point to Coronado National Forest south and east of Sahuarita where the Elephant Head/Hawk Way Singletrack Trail intersects the Forest boundary.

Esperero Wash North Boundary Access Point (BAP33)
Access point to Coronado National Forest where Esperero Wash north branch intersects the Forest boundary.

Esperero Wash South Boundary Access Point (BAP034)
Access point to Coronado National Forest where Esperero Wash south branch intersects the Forest boundary.

Fagan Ranch Link Boundary Access Point (BAP035)
Access point to Coronado National Forest where Fagan Ranch Singletrack Trail intersects the Forest boundary.

Flat Rock Trail Boundary Access Point (BAP036)
Access point to Coronado National Forest from the west along Flat Rock Trail Singletrack Trail.

Forty-niners Wash Boundary Access Point (BAP037)
Access point to Coronado National Forest where Forty-niners Wash intersects the Forest boundary, near Scout Rest Road.

Finger Rock Trailhead (TH[L]019)
A 31-vehicle lot at the north end of Alvernon Way provides access to the Finger Rock, Pontatoc Ridge, and Pontatoc Canyon trails in the Coronado National Forest.

Harrison Road Trailhead (TH[S]020)
A proposed small trailhead for Coronado National Forest where Harrison Road intersects the Forest boundary.

Hidden Springs Boundary Access Point (BAP038)
Access point to Coronado National Forest two and one-quarter miles east of Agua Verde Road.

Houghton Road North Boundary Access Point (BAP039)
Access point to Coronado National Forest where Houghton Road intersects the Forest boundary, north of Snyder Road.

Houghton Road South Boundary Access Point (BAP040)
Access point to Coronado National Forest where Houghton Road intersects the Forest boundary, south of Camino Aurelia.

Pima Canyon Trailhead

Iris Dewhirst Pima Canyon Trailhead (TH[L]021)
This 50-vehicle lot, located at the east end of Magee Road, provides access to the Pima Canyon Trail in the Coronado National Forest, one of the most popular and scenic in southern Arizona. The parking lot and first 1,700 feet of the trail are owned and maintained by Pima County.

Linda Vista Trailhead (TH[S]022)
A small paved lot with room for six cars is located just off east Linda Vista Road near the boundary of the Coronado National Forest, and provides access to the Forest's Linda Vista Trail. Horse staging is not available here, but equestrians are welcome on the trail, which leads into the Pusch Ridge Wilderness area. The trailhead is managed by the Town of Oro Valley.

Little Cottonwood Wash Boundary Access Point (BAP041)
Access point to Coronado National Forest where Little Cottonwood Wash intersects the Forest boundary.

Madera Canyon Wash Boundary Access Point (BAP042)
Access point to Coronado National Forest where Madera Canyon Wash Singletrack Trail intersects the Forest boundary.

Middle Gate Boundary Access Point (BAP043)
Access point to Coronado National Forest from the west along the southern spur of the Catalina State Park/Flat Rock Singletrack Trail.

Mulberry Boundary Access Point (BAP044)
Access point to Coronado National Forest where the northern branch of the Davidson Canyon Singletrack Trail intersects the Forest boundary.

Papago Springs Boundary Access Point (BAP045)
Access point to Coronado National Forest where Papago Springs Road Singletrack Trail intersects the Forest boundary.

Pelon Springs Boundary Access Point (BAP046)
Access point to Coronado National Forest where Soza/Canada Atravesada Singletrack Trail intersects the Forest boundary.

Posta Quemada Boundary Access Point (BAP047)
Access point to Coronado National Forest where Posta Quemada Singletrack Trail intersects the Forest boundary, near Via Rancho del Cielo.

Sabino Canyon Recreation Area Trailhead (TH[L]023)
The Sabino Canyon Recreation Area parking lot provides an excellent staging point for many popular hiking trails in the front range of the Catalina Mountains, including Blackett's Ridge Trail, Esperero Trail, Seven Falls Trail, Phone Line Trail, Bear Canyon Trail, and the Sabino Canyon Trail—all of which provide access to the Forest's backcountry trail system. The lot is large but fills quickly on weekends and holidays.

Sands Ranch Trailhead (TH[S]024)
A proposed small trailhead in the Sands Ranch area, where Granite Peak Road accesses the forest.

Soza Canyon/Espiritu Canyon Boundary Access Point (BAP048)
Access point to Coronado National Forest where Soza/Espiritu Canyon Singletrack Trail intersects the Forest boundary.

Tanque Verde Creek Boundary Access Point (BAP049)
Access point to Coronado National Forest where Tanque Verde Wash Singletrack Trail intersects the Forest boundary.

Valley View Wash Boundary Access Point (BAP050)
Access point to Coronado National Forest where Valley View Wash Singletrack Trail intersects the Forest boundary, north of Finisterra.

Ventana Canyon Trailhead (TH[S]025)
The Ventana Trailhead is located at the north end of the Ventana Canyon Resort's employee parking area and has space for 25 cars. A 5,200-foot-long County-controlled access trail, most of which follows the Ventana Wash, connects the trailhead with the Forest.

Wakefield Canyon Boundary Access Point (BAP051)
Access point to Coronado National Forest where the Wakefield Canyon Singletrack Trail intersects the Forest boundary.

Houghton Road Greenway

Bonanza Trailhead (THE[S]026)
Potential small trailhead location west of Houghton Road, near Bonanza Avenue, and north of Tanque Verde Wash.

Danforth Trailhead (TH[S]027)
Potential small trailhead location east of Houghton Road and north of Golf Links Road.

Julian Wash Trailhead (THE[S]028)
Potential small trailhead location west of Houghton Road and south of Julian Wash.

Old Spanish Trail Trailhead (THE[S]029)
Potential small trailhead location at the southeast corner of Houghton Road and Old Spanish Trail.

Pantano Wash Trailhead (THE[L]030)
Potential large trailhead location west of Houghton Road and north of Irvington Road Greenway.

Sahuarita Road Trailhead (TH[S]031)
Potential small trailhead location at the intersection of Houghton and Sahuarita roads.

South Houghton Road Trailhead (THE[L]032)
Potential large trailhead location at the south end of Houghton Road, south of Camino Aurelia.

Ironwood Forest National Monument

El Tiro Road Boundary Access Point (BAP052)
Access point to Ironwood Forest National Monument at the west end of El Tiro Road.

Manville Road West Boundary Access Point (BAP053)
Access point to Ironwood Forest National Monument at the west end of Manville Road.

Mile Wide Road Boundary Access Point (BAP054)
Access point to Ironwood Forest National Monument at the west end of Mile Wide Road.

Orange Grove Road Boundary Access Point (BAP055)
Access point to Ironwood Forest National Monument at the west end of Orange Grove Road.

Trico Road Boundary Access Point (BAP056)
Access point to Ironwood Forest National Monument at the west end of Trico Road.

Jeremy Wash

Jeremy Wash Trailhead (THE[S]033)
The Jeremy Wash Trailhead will be constructed on Rocking K Ranch property immediately east of Old Spanish Trail, adjacent to the northern edge of Jeremy Wash. The trailhead is a requirement of the Rocking K Ranch Specific Plan, and will be built by Rocking K Development Corp. to Pima County specifications. The facility will provide access to the Hope Camp Trail, a long corridor that crosses the northern portion of the Rocking K Ranch and into the Saguaro National Park East Expansion area, connecting the Rincon Creek with the Arizona Trail.

Julian Wash

12th Avenue Trailhead (TH[S]034)
This small park provides six paved parking spaces that serve the trail corridor, a playground, shade/picnic ramada, and restroom. It is located on the west side of 12th Avenue, north of 40th Street, and just south of the Interstate 10/Interstate 19 split.

Kolb Road Trailhead (TH[S]035)
Potential small trailhead location southeast of Kolb Road and Julian Wash Greenway.

Wilmot Road Trailhead (THE[S]036)
Potential small trailhead location east of Wilmot Road and north of Julian Wash Greenway.

Las Cienegas Natural Conservation Area

The Narrows Boundary Access Point (BAP057)
Access point to Las Cienegas Natural Conservation Area where Agua Verde Link Singletrack Trail intersects the north boundary.

McKenzie Ranch

Cochise Trail East 2 Boundary Access Point (BAP058)
Access point to McKenzie Ranch on the east side where the Cochise Singletrack Trail intersects the Ranch boundary.

Cochise Trail West 1 Boundary Access Point (BAP059)
Access point to McKenzie Ranch on the west side where the Cochise Singletrack Trail intersects the Ranch boundary.

Pantano Wash

22nd Street and Pantano Road Trailhead (TH[L]037)
Potential large trailhead location at the intersection of 22nd Street and Pantano River Park.

Craycroft Road Trailhead (THE[S]038)
Approximately 15 unimproved and unpaved parking spaces are available on the northwest corner. No other amenities are provided. This trailhead also provides access to the Rillito River corridor.

Golf Links Road Trailhead (TH[S]039)
Potential small trailhead location north of Golf Links Road and east of Pantano River Park.

Home Depot on Broadway Boulevard Trailhead (TH[S]040)
Existing small trailhead location at the Home Depot center north of Broadway Boulevard and the Home Depot, and east of Pantano River Park.

Pistol Hill

Pistol Hill Road Trailhead (THE[S]041)
A new trailhead to serve Arizona Trail users has been proposed just east of Pistol Hill Road, approximately one and seven-tenth miles north of Old Spanish Trail. The trailhead would serve hikers, mountain bikers, and equestrians, and would be located in immediate proximity to the Arizona Trail.

Pistol Hill Loop Trailhead (THE[S]042)
A new trailhead facility is proposed for the southeast corner of Pistol Hill Road and Old Spanish Trail to serve the proposed Pistol Hill Loop Trail. The exact location and specific features of the lot have yet to be determined.

Rillito River

Brandi Fenton Memorial Park Trailhead (THE[L]043)
This park, north of Rillito River and west of Dodge Boulevard, provides vehicular parking and other amenities for equestrian and trail users.

Camino de la Tierra Trailhead (TH[S]044)
Small trailhead location on Camino de la Tierra, southwest corner of Rillito River Park.

Campbell Avenue Trailhead (TH[S]045)
A small paved parking lot is available on the southeast corner of Campbell and the Rillito River.

CarMax Trailhead (TH[S]046)
Potential small trailhead location south of Rillito River Park, between Fairview Avenue and Oracle Road.

Children's Memorial Park Trailhead (THE[L]047)
Approximately 44 paved parking spaces and unpaved roadside shoulders. Restroom, picnic/shade ramadas, playground, and other amenities north of the Rillito River at 15th Drive.

La Cañada Drive Trailhead (TH[L]048)
Approximately 43 paved parking spaces, restrooms, and amenities on the north side of the river, south of River Road are available.

Swan Road Trailhead (THE[S])049)
Approximately ten unpaved horse rig spaces are available at this location on the southeast corner of Swan Road and the Rillito River. However, the spaces are not for exclusive use of equestrians. Amenities include a shade ramada.

Saguaro National Park - Rincon District

Broadway Gate Trailhead (THE[L]050)
The Broadway Gate is the access point to Saguaro National Park's Cactus Forest Trail system from the east end of Broadway Boulevard. Trail users must park along the road at present, but a new trailhead is planned. Current capacity accommodates about 12 cars.

Camino Loma Alta Trailhead (THE[S]051)
A temporary parking area has been established by Saguaro National Park at the northern end of Camino Loma Alta to provide access to the park's 3,500-acre expansion area and its informal trail system. Unpaved parking is available for about ten cars. An improved lot is planned as a part of the park's revised General Management Plan.

Coyote Wash Boundary Access Point (BAP060)
Access point to Saguaro National Park where Coyote Wash Singletrack Trail enters the park east of Camino Loma Alta Greenway.

Douglas Spring Trailhead (TH[S]052)
This small parking lot at the east end of Speedway Boulevard has room for 16 vehicles and provides access to the Cactus Forest Trail system and the popular Douglas Spring Trail in Saguaro National Park East. The lot is for hikers only; equestrian staging is located alongside Speedway Boulevard a short distance to the west at Wildhorse Gate.

Wildhorse Gate Trailhead (THE[S]053)
The Wildhorse Gate Trailhead is an equestrian staging area for the Cactus Forest Trail system in Saguaro National Park East near the east

end of Speedway Boulevard. Horse rigs can park along both shoulders of the road, with room for about ten rigs on each side of the road.

Hope Camp Boundary Access Point (BAP061)
Access point to Saguaro National Park from the south where the Hope Camp Singletrack Trail intersects the Park boundary. The Arizona Trail is accessible from this point.

Monument Boundary Boundary Access Point (BAP062)
Access point to Saguaro National Park from the west where the Hope Camp Singletrack Trail penetrates the park boundary.

Phoneline Link Boundary Access Point (BAP063)
Access point to Saguaro National Park from the south where the Phoneline Link Singletrack Trail intersects the Park boundary.

Rincon Creek East Boundary Access Point (BAP064)
Access point to Saguaro National Park from the west where the Rincon Creek Singletrack Trail enters the park.

Rincon Creek West Boundary Access Point (BAP065)
Access point to Saguaro National Park from the south where the Rincon Creek Singletrack Trail enters the park.

Rincon Creek South Fork Boundary Access Point (BAP066)
Access point to Saguaro National Park from the west where the Rincon Creek South Fork Singletrack Trail enters the park.

Saguaro National Park Boundary Access Point (BAP067)
Access point at the main gate of the Park.

Shurban Loop Boundary Access Point (BAP068)
Access point to Saguaro National Park from the west where Shurban Loop Singletrack Trail intersects the park border.

Wentworth Road Boundary Access Point (BAP069)
Access point to Saguaro National Park from the west along the Wentworth Road alignment, south of Speedway Boulevard.

X-9 Ranch Road Boundary Access Point (BAP070)
Access point to Saguaro National Park from the south where the X-9 Ranch Road Singletrack Trail intersects the Park boundary.

Saguaro National Park - Tucson Mountain Unit

Abington Road Boundary Access Point (BAP071)
Access point to Saguaro National Park on the east side where Belmont Loop Singletrack Trail enters the park, near Abington Road.

Belmont Loop Boundary Access Point (BAP072)
Access point to Saguaro National Park where Belmont Loop Singletrack Trail enters the park near the Orange Grove Road alignment.

Belmont Road Boundary Access Point (BAP073)
Access point to Saguaro National Park on the east side where Belmont Road Singletrack Trail enters the park.

El Camino del Cerro Trailhead (THE[S]054)
This ten-car, two-horse rig paved trailhead is located at the west end of El Camino del Cerro and provides access to the popular Sweetwater Trail and other trails in Saguaro National Park West. A narrow, right-of-way-based site (just 60 feet in width) limits the size and capacity of this lot.

King Canyon Trailhead (THE[S]055)
This primitive dirt lot across Kinney Road from the Arizona–Sonoran Desert Museum is located within Tucson Mountain Park but serves the King Canyon Trail in Saguaro National Park West and Tucson Mountain Park's planned Cougar Trail. Space exists for approximately 15 cars and one horse rig. The lot is in a less-than-ideal location and will be replaced with a new trailhead approximately one-quarter mile to the west when funding can be secured.

Fort Lowell Road Boundary Access Point (BAP074)
Access point to Saguaro National Park on the west side where Fort Lowell Road Singletrack Trail intersects the Park boundary.

Manville Road Boundary Access Point (BAP075)
Access point to Saguaro National Park at the east end of Manville Road.

Picture Rocks Trailhead (TH[S]056)
Picture Rocks Trailhead is at the point where Picture Rocks Road enters Saguaro National Monument West and Picture Rocks Road Singletrack Trail terminates.

Picture Rock Wash North Boundary Access Point (BAP076)
Access point to Saguaro National Park where Picture Rock Wash Singletrack Trail enters the park.

Picture Rock Wash South 1 Boundary Access Point (BAP077)
Access point to Saguaro National Park where Picture Rock Wash Singletrack Trail leaves the park.

Picture Rock Wash South 2 Boundary Access Point (BAP078)
Access point to Saguaro National Park where Picture Rock Wash Singletrack Trail enters the park.

Roger Wash Middle 1 Boundary Access Point (BAP079)
Access point to Saguaro National Park where Roger Wash/Roger Extension Singletrack trail enters the park from the east, near the Bucking Bronco Place alignment.

Roger Wash Middle 2 Boundary Access Point (BAP080)
Access point to Saguaro National Park where Roger Wash/Roger Extension Singletrack trail enters the park from the east, near Banded Gecko Way.

Roger Wash Middle 3 Boundary Access Point (BAP081)
Access point to Saguaro National Park where Roger Wash/Roger Extension Singletrack trail enters the park from the east, south of Sweetwater Drive.

Roger Wash North Boundary Access Point (BAP082)
Access point to Saguaro National Park where Roger Wash/Roger Extension Singletrack trail enters the park from the east, south of El Camino del Cerro.

Roger Wash South Boundary Access Point (BAP083)
Access point to Saguaro National Park where Roger Wash/Roger Extension Singletrack trail enters the park from the east, near Chaos Canyon Lane.

South Sweetwater Boundary Access Point (BAP084)
Access point to Saguaro National Park where South Sweetwater Singletrack trail enters the park from the east.

Sweetwater Road Trail Boundary Access Point (BAP085)
Access point to Saguaro National Park where Sweetwater Road Singletrack trail enters the park from the east.

Wild Horse Wash South 1 Boundary Access Point (BAP086)
Access point to Saguaro National Park where Wild Horse Wash Singletrack Trail enters the park, near the Diamond Street alignment.

Wild Horse Wash South 2 Boundary Access Point (BAP087)
Access point to Saguaro National Park where Wild Horse Wash Singletrack Trail enters the park, near the Sunset Road alignment.

Wild Horse Wash South 3 Boundary Access Point (BAP088)
Access point to Saguaro National Park where Wild Horse Wash Singletrack Trail enters the park, near the Gerhart Road alignment.

Yuma Mine Trail Boundary Access Point (BAP089)
Access point to Saguaro National Park where Wild Horse Wash Singletrack Trail enters the park, near the Yuma Mine Trail alignment.

Sahuarita Greenway

Sahuarita Road Trailhead (THE[L]057)

A large trailhead has been proposed for the corner of Highway 83 and Sahuarita Road to serve users of the proposed Sahuarita Greenway and the Arizona Trail. The exact location of the trailhead has yet to be determined.

Santa Cruz River

Abrego Drive Trailhead (THE[L]058)

Existing large trailhead located in the Green Valley area east of Interstate 19 and south of Continental Road. It has a shade structure and 15 vehicle parking spaces.

Anza Trail Trailhead (THE[S]059)

Existing small trailhead location at the intersection of Elephant Head Road and Santa Cruz River Park.

Columbus Park Trailhead (TH[S]060)

Potential small trailhead location at Columbus Park.

Columbus Park Equestrian Trailhead (THE[L]061)

Potential large equestrian trailhead location at Columbus Park.

Garden of Gethsemane Trailhead (TH[S]062)

Paths and trails are accessed at the northeast corner of north Bonita Avenue and west Congress Street from this three-tenths-acre special interest park.

Heritage Park Trailhead (THE[L]063)

Potential large trailhead location on the Santa Cruz River Park, between Congress Street and Starr Pass Boulevard.

Juhan Park Trailhead (THE[L]064)

This existing but only partially improved Community Park on the southwest side of the Santa Cruz River provides approximately 50 paved parking spaces along the north side of Copper Street and numerous unimproved parking spaces. Amenities include a restroom, shade ramadas, and other typical park facilities.

Ormsby Park Trailhead (TH[S]065)

This existing neighborhood park which provides potential access to the Santa Cruz River Park is located approximately two blocks east of the River Park and has approximately 15 paved parking spaces serving the park. The trailhead is accessed off of west 24th Street and west 25th Street. Restrooms, picnic/shade ramadas and other typical park amenities are available.

Parque de Santa Cruz Trailhead (THE[L]066)
Potential large trailhead location at Santa Cruz River Park and Airport Wash Greenway.

Prince Road Trailhead (TH[S]067)
Potential small trailhead location at Santa Cruz River Park and Navajo Wash Greenway between the River Park and Interstate 10.

Sahuarita Trailhead (THE[L]068)
Potential large trailhead location at Santa Cruz River Park, north of Sahuarita Greenway.

Sanders Road Trailhead (TH[S]069)
Potential small trailhead location at Santa Cruz River Park and Sanders Road.

Silverbell/Ruthrauff Trailhead (TH[L]070)
Potential large trailhead location southeast of the Silverbell and Ruthrauff roads intersection.

Speedway Boulevard Trailhead (TH[L]071)
Access to the Santa Cruz River is available south of Speedway Boulevard and west of Interstate 10 off of north Riverside Drive. Approximately 20 paved parking spaces, picnic/shade ramadas, a restroom, playground and other typical park amenities are available. An additional 15 plus paved parking spaces are available on the east side of the River, south of Speedway Boulevard, off of north Freeway Road.

West Branch Santa Cruz River Diversion Channel Greenway Trailhead (TH[S]072)
Potential small trailhead location near Santa Cruz River Park and Paseo Rio Bravo.

Santa Rita Experimental Range

Alvernon Extension Boundary Access Point (BAP090)
Access point to Santa Rita Experimental Range where Alvernon Extension Singletrack Trails intersects the preserve's north boundary.

Alvernon Way/Dawson Road Boundary Access Point (BAP091)
Access point to Santa Rita Experimental Range where Alvernon Way/ Dawson Road Singletrack Trails intersects the preserve's north boundary.

Madera Canyon Road Boundary Access Point (BAP092)
Access point to Santa Rita Experimental Range on Madera Canyon Road at the preserve's south boundary.

Southeast Regional Park

Southeast Regional Park/Fairgrounds Trailhead (THE[L]073)

Trailhead, trails, and loop trails will be planned within the boundaries of the regional park.

Sweetwater Preserve

Sweetwater Preserve Trailhead (TH[S]074)
(see also Sweetwater Preserve Trails Park, TP028)

A new trailhead has been constructed at the 700-acre Sweetwater Preserve to provide access to the park's 10.4-mile trail system and a trail linking the Santa Cruz River park and Saguaro National Park Tucson Mountain Unit. The dirt lot near the northern boundary of the park, at the end of Tortolita Road, serves as an equestrian staging area and a trailhead for cars and light trucks.

Tortolita Mountains (includes County park, proposed County park expansion, and State Trust Land parcels)

Cochie Wash Boundary Access Point (BAP093)

Access point to the Tortolita Mountains where the Cochie Wash Singletrack Trail enters the mountains on the west.

Cochie Canyon Trailhead (TH[S]075)

Potential small trailhead location in the Tortolita Mountains, north of Cochie Canyon Trail.

Cottonwood Wash Boundary Access Point (BAP094)

Access point to the Tortolita Mountains where Cottonwood Wash Singletrack Trail enters the mountains on the west.

Crow Wash Trailhead (TH[L]076)

Potential large trailhead location in the Tortolita Mountains, south of Edwin Road, approximately on the La Cholla Drive alignment.

Honeybee Canyon Trail East Boundary Access Point (BAP095)

Access point to the Tortolita Mountain where the Honeybee Canyon Singletrack Trail enters the mountains, near Dusty View Drive.

Honeybee Canyon Trail West Boundary Access Point (BAP096)

Access point to the Tortolita Mountains where the Honeybee Canyon Singletrack Trail enters the mountains, near Gibson Trail.

Honeybee Canyon Park Trailhead (TH[S]077)

Honeybee Canyon is a popular semi-riparian canyon trail, about three miles in length. The trailhead has parking for 24 vehicles including four accessible spaces, restrooms, and drinking fountain.

Oro Valley Trailhead (THE[S]078)
Potential small equestrian trailhead location in the Tortolita Mountains, west of Hawk Canyon Trails and north of Turtle Dove Lane.

Tortolita Foothills East Boundary Access Point (BAP097)
Access point to the Tortolita Mountains where the Tortolita Foothills Singletrack Trail enters the mountains, near Horizon Ridge Drive.

Tortolita Foothills West Boundary Access Point (BAP098)
Access point to the Tortolita Mountain where the Tortolita Foothills Singletrack Trail enters the mountains, near Cochie Wash Singletrack Trail.

Trail 156 Oro Valley Boundary Access Point (BAP099)
Access point to the Tortolita Mountains where the Trail 156 Oro Valley Singletrack Trail enters the mountains, near Lobelia Way.

Twenty-seven Wash Boundary Access Point (BAP100)
Access point to the Tortolita Mountains where the Twenty-seven Wash Singletrack Trail enters the mountains.

Upper Javelina Trail Boundary Access Point (BAP101)
Access point to the Tortolita Mountains where Upper Javelina Singletrack Trail enters the mountains from the south.

Vulture Peak Trail Trailhead (THE[S]079)
Potential small equestrian trailhead location in the Tortolita Mountains where Vulture Peak Singletrack Trail enters the mountains from the south.

Wild Burro Trail Boundary Access Point (BAP102)
Access point to the Tortolita Mountains where Wild Burro Singletrack Trail enters the mountains from the west.

Wild Burro Trailhead (THE[L]080)
Wild Burro trailhead is located on the Ritz Carlton Hotel property and provides access to Wild Burro Wash.

Tucson Mountain Park

36th Street Trailhead (THE[S]081)
The 36th Street Trailhead is located at the western end of 36th Street in the eastern foothills of the Tucson Mountains, and includes spaces for 22 cars and light trucks and four horse rigs. The trailhead provides access to Tucson Mountain Park's 62-miles of recreational trails.

Aldon Road Boundary Access Point (BAP103)
Access point to Tucson Mountain Park where Aldon Road Singletrack Trail enters the park from the south.

Calle Anasazi Boundary Access Point (BAP104)
Access point to Tucson Mountain Park where Calle Anasazi Singletrack Trail enters the park from the south.

Camino de Oeste Trailhead (TH[S]082)
This parking area near the south end of Camino de Oeste and Greasewood Loop Singletrack Trail has room for 14 vehicles. The trailhead provides access to the Yetman Trail in Tucson Mountain Park.

CAP/San Joaquin Boundary Access Point (BAP105)
Access point to the Tucson Mountains where the Central Arizona Project Canal intersects San Joaquin Road.

CAP/Sandario Trailhead (THE[S]083)
The Sandario Trailhead is located near the southeast corner of the intersection of Sandario and Mile Wide roads within the Central Arizona Project corridor. It has space for 18 cars (including one accessible space) and five horse rigs. The trailhead provides access to the CAP National Recreation Trail, which connects to Tucson Mountain Park.

Cat Mountain Trailhead (THE[S]084)
The Cat Mountain Trailhead is primarily intended for equestrians and is an unimproved dirt parking area located on the boundary of Tucson Mountain Park. The site can accommodate five horse rigs.

David Yetman West Trailhead (TH[S]085)
A paved lot located just off Gates Pass Road on the west side of the pass at the bottom of the hill, this trailhead has space for 12 cars and provides access to Tucson Mountain Park's David Yetman Trail. Equestrian staging for Tucson Mountain Park is located at the Starr Pass East Trailhead.

Explorer Trailhead (TH[L]086)
The Explorer Trailhead is located at the back of the City of Tucson's Kennedy Park Fiesta Area parking lot, which is accessible from La Cholla Boulevard. The lot is large, but can fill during special events. This trailhead provides access to Tucson Mountain Park's Explorer Trail.

Gates Pass Overlook Trailhead (TH[L]087)
This paved staging area is located within Tucson Mountain Park's Gates Pass Overlook. It has space for 50 cars and serves the Gates Pass Trail. Equestrian staging for Tucson Mountain Park is located at the Starr Pass East Trailhead.

Prospector's Extension Boundary Access Point (BAP106)
Access point to Tucson Mountain Park where Prospectors Extension Singletrack Trail enters the park from the south.

Sarasota Trailhead (TH[S]088)
A 22-space trailhead was constructed in 2007 at the end of Sarasota Road adjacent to Tucson Estates just south of the Tucson Mountain Park boundary. This trailhead provides access to the west end of the Starr Pass Trail in Tucson Mountain Park. Equestrian staging for Tucson Mountain Park is located nearby at the Starr Pass West Trailhead.

Starr Pass East Trailhead (THE[L]089)
A paved parking area located immediately west of the Starr Pass development and adjacent to the Clearwell Reservoir at the end of Clearwell Road, this trailhead has room for 44 cars and five horse rigs. The trailhead provides access to the Tucson Mountain Park trail system via the Rock Wren Trail, and is the designated equestrian staging area for the east side of Tucson Mountain Park.

Trails End Wash Boundary Access Point (BAP107)
Access point to Tucson Mountain Park where Trails End Wash Singletrack Trail enters the park from the east.

Tucson Estates Parkway Boundary Access Point (BAP108)
Access point to Tucson Mountain Park where Tucson Estates Parkway Singletrack Trail enters the park from the south.

Other

Orange Grove/Anway Trailhead (THE[L]090)
Potential large trailhead location at the intersection of Orange Grove and Anway roads.

Reid Park Trailhead (TH[L]091)
Potential large trailhead located at Hi Corbett Field.

Tucson Medical Center Trailhead (TH[S]092)
A paved parking area provides direct access to the Alamo Wash Path. The lot is behind and shared with an office complex south of Glenn Street and east of Alamo Wash.

Singletrack Trails

Singletrack Trails are listed on the following pages in matrix form.

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
1	Agua Caliente Wash	6.0	CNF boundary to confluence with Tanque Verde Wash	2550	3000	X					4
2	Canada del Oro Wash	4.8	Catalina St Park north to Pinal Co line	2200	2640	X					4
7	San Pedro River	11.8	Pinal Co line to Cochise Co line	2700	3000	X					5
9	Tanque Verde Wash	10.0	CNF boundary to Tanque Verde Rd	2440	2780	X				Linear park for 3.5 miles	4
10	Black Wash	10.0	Sandario Greenway to CAP	2210	2570	X					1
11	Brawley Wash	23.0	Pinal Co line to confluence with Black Wash	1870	2210	X					1
12	Prospector's Extension	1.0	San Joaquin Rd to Prospector's Trail in TMP	2420	2480		X			Trail follows TMP fence line.	1
13	Saginaw Hill	3.0	TMP boundary at Lincoln St, Ajo Wash, Red Butte, to Saginaw Hill	2540	2700	X	X	X		Links Saginaw Hill to TMP	1
14	West Branch Santa Cruz River	4.4	CAP to headwaters	2470	2570	X					1
17	Ft. Lowell	1.4	CAP Canal to Sandario Rd	2210	2360			X		Access point to Saguaro NMW	1
18	Manville Rd	8.0	Ironwood Forest Natl Mo nument to Sandario Rd	2185	2335			X		Access point to Saguaro NMW	1
19	Orange Grove Rd	1.1	Sanders Rd west to CAP	2110	2160			X			1
20	Picture Rocks Rd	4.1	Sanders Rd to Saguaro NMW	2145	2475			X			1
21	San Joaquin Rd	4.6	CAP North to CAP South					X			1
22	Sanders Rd	0.5	Orange Grove to Picture Rocks Rd	2145	2160			X			1
23	Gas pipeline	4.3	CAP to Manzanita Greenway	2470	2590				X	Links TMP and Saginaw Hill Park	1
24	Enchanted Hills/West Branch of Santa Cruz River	2.0	From Santa Cruz River south then west to Mission Rd	2360	2700	X					2
25	Picture Rocks Wash	5.4	Northeasterly from Saguaro NMW to Santa Cruz River	2120	2420	X				Crosses Silverbell Rd	2
26	Roger Wash/Roger Extension	7.5	Northeasterly from TMP to Santa Cruz River. Portion east of Silverbell Rd in Silverbell Park	3120	2240	X					2
27	Sweetwater Wash	5.5	Easterly from Saguaro NMW to Santa Cruz River. Portion east of Silverbell Rd in Silverbell Park	2240	3160	X				Crosses through Sweetwater Preserve	2
28	Wild Horse Wash	5.0	Northeasterly from Saguaro NMW at Camino del Cerro to Santa Cruz River	2160	2880	X				Formerly Forest Wash	2
29	Catalina State Park/Flat Rock Trail	5.2	From north Catalina State Park, N and NE to the CNF	3000	3320	X	X				3
30	Big Wash/Hawser to Catalina State Park/Flat Rock Trail	3.7	Hawser ROW. 1/2 mile trail link to Big Wash	3040	3320	X	X	X			3
31	Cochie Wash	3.7	From Cochie Canyon Trail in west Tortolitas to CAP	2180	2800	X					3
32	Cottonwood Wash	5.2	From Twenty-niners Trails in west Tortolitas to CAP	2040	2430	X					3

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
33	La Cholla/Honeybee Loop	13.6	Two branches of u-shaped loop. One from Canada del Oro River Park near La Cholla Blvd to the foothills. The second from Honeybee Canyon Trail south to Canada del Oro River Park	2400	3400	X	X				3
35	Sutherland Wash	1.3	North Catalina State park NE to CNF	2960	3240	X					3
36	Wild Burro Wash	11.0	Wild Burro Canyon/Foothills Trail West. Pinal Co line to the CAP	2030	2820	X					3
37	Chalk Mine Rd/Edwin Rd alignment	8.4	County line Rd/alignment	3475	3600			X		Tortolitas-CNF connection incomplete	3
38	Caliente Hill Wash	2.2	CNF boundary to confluence with Agua Caliente Wash	2660	2920	X					4
39	Canyon del Salto	1.7	CNF boundary to confluence w/Tanque Verde Wash	2760	2920	X					4
40	Esperero Wash	3.3	CNF boundary (2 tributaries) to confluence with Ventana Canyon Wash	2660	3600	X					4
41	Finger Rock Wash	5.2	From CNF boundary south to Rillito River Park	2240	3160	X	X	X			4
42	Geronimo Wash	3.5	CNF boundary to confluence with Pima Wash	2480	3000	X					4
43	Pima Wash	5.1	CNF boundary to confluence with Rillito River	2360	2960	X				Connects with Pima Canyon access point. Southwest of Ina Rd route may have to leave wash to avoid conflicts.	4
44	Pine Tree Wash	3.8	Snyder Rd at east tributary of wash to Sabino Creek	2540	2754	X		X			4
45	Sabino Creek	4.2	CNF boundary to Tanque Verde Wash	2500	2660	X					4
46	Shurban Loop	3.3	Saguaro NP along two unnamed tributaries (w/cross-country connection) to Pantano Wash	2780	3020	X	X			Connects with Old Spanish access point at Saguaro NP	4
47	Ventana Canyon Wash	6.3	CNF boundary to Tanque Verde Wash	2460	3220	X				Connects w/Ventana Canyon access point	4
49	Buehman Canyon	8.3	CNF to San Pedro River	2800	3800	X				A private dirt road exists along the upper 1/2 of this trail	5
50	Edgar Canyon	8.9	CNF to San Pedro River	2800	4200	X				A private dirt road roughly parallels this trail for its entire length	5
51	Soza/Canada Atravesada-Saucito Canyon	4.2	CNF to Soza/Espiritu Canyon Singletrack Trail	3000	4000	X				A private dirt road exists along much of this route	5
52	Soza/Espiritu Canyon	6.7	CNF to Cochise Co line	3000	4000	X				A private dirt road exists along the Soza Canyon portion of this trail	5
53	Redington Rd	11.4	San Pedro River to CNF boundary	2880	4200			X			5
55	Cienega Creek	9.8	Colossal Cave Rd to Empire-Cienega Resource Conservation Area	3230	4020	X					6
56	Davidson Canyon	16.7	Confluence w/Cienega Creek to CNF/includes Mulberry Canyon Fork	3320	4400	X					6

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
57	Hidden Springs	1.0	Power Line Singletrack Trail to CNF/jeep Rd	3640	3800		X				6
58	Lower Agua Verde Creek	7.5	Cienega Creek to Power Line Singletrack Trail	3230	3820	X	X				6
59	Mescal Arroyo	5.5	Confluence w/Cienega Creek to Railroad Bed Singletrack Trail	3560	4040	X					6
60	Hope Camp Trail	3.8	Rincon Creek to Madrona Ranger Station	2840	3760		X				6
61	Posta Quemada	2.9	Lower Agua Verde Creek to CNF	3400	3620	X					6
62	Rincon Creek	5.7	From Rincon Crk Greenway at Camino Loma Alta Greenway to Saguaro NP	2820	3280	X					6
63	Total Wreck Wash and Trail	6.6	Cienega Creek to Empire Cienega Resource Conservation Area	3600	4480	X	X				6
64	Colossal Cave/Vail Rd	4.8	Cienega Creek to Colossal Cave Mountain Park	3140	3560						6
66	Marsh Station Rd	8.0	Power Line Singletrack Trail, near Sonoita Hwy interchange, east to Power Line Singletrack Trail near I-10 interchange	3250	3420			X			6
68	Pistol Hill/Papago Springs Rd	5.3	Colossal Cave Rd to Papago Springs/CNF	3380	3640			X			6
69	Pistol Hill Rd (private)	3.5	Pistol Hill/Papago Springs Rd to X-9 Ranch Rd	3320	3530			X		Proposed for consideration/not currently open to public	6
71	Wentworth Rd	3.8	Power Line Greenway to Sahuarita Greenway	3260	3560			X			6
72	X-9 Ranch Rd (private)	6.1	Old Spanish Trail to Saguaro NP boundary; currently not open to public	3329	3400			X		Proposed for consideration	6
73	Power Line	7.8	East from Lower Agua Verde Creek to Cochise Co Line	3760	4440				X		6
74	Alvernon Extension	1.5	Dawson Rd south to Santa Rita Experimental Range; on Alvernon Way alignment	2826	2880		X				7
75	Ash Wash	4.6	East-west wash from western edge of the Sierrita Mtns 4.6 miles to the west	3100	4400	X					7
76	Alvernon Way/Dawson Rd	12.3	Loop NW of Santa Rita Exp. Range on Jane's Wash/Alvernon Way/Helvetia Wash; via Dawson Rd to Santa Cruz River	2740	3040	X	X	X		Approx. 3.5 miles on road ROW	7
77	Demetrie Wash	10.1	East-southeast trending wash from east edge of the Sierrita Mtns to Caterpillar Trail. Skirts mine pits and tailings pond.	2920	4600	X					7
78	Esperanza Wash (Tinaja Wash)	14.0	SE from east edge of the Sierrita Mtns (upper reach is Tinaja Wash) to Santa Cruz River; skirts mine pits, tailings, Caterpillar Proving Ground	2920	4600	X					7
79	Fresnal Wash	7.3	East-west wash from western edge of the Sierrita Mtns 7.3 miles to the west	2900	4600	X					7
80	Madera Canyon Wash	5.1	CNF boundary northwest to Hawk Way	2940	3760	X					7
81	Proctor Wash/Bob Brown Lateral	12.1	North-south route between the Sierrita Mtns and the Cerro Colorado Mtns	3460	4600	X	X				7
83	Continental Rd	1.7	Tailings Pond Rd, E to Green Valley/West Grant	2860	3290			X			7
84	Duval Mine Rd	1.6	Connector between Mission Rd and Tailings Pond Rd	3290	3400			X		Part of "Continental Combo ROW"	7

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
85	Elephant Head/Hawk Way	8.8	From Santa Cruz River to CNF	3000	3580			X			7
86	Madera Canyon Rd	10.0	I-19 to CNF boundary	2840	4060			X		Current access to Madera Canyon	7
87	McGee Ranch Rd	6.0	West from Mission Rd to the Sierrita Mtns	3600	4640			X			7
88	Mission Rd	2.8	McGee Ranch Rd to Duval Mine Rd	3400	3600			X			7
100	Aldon Rd	2.9	Irvington Rd to TMP via Aldon Rd; east and west fork extensions	2520	2600		X	X			1
101	Beehive Trail	0.4	Loop trail from Sorrel Ln around western side of Beehive Peak	2640	2700		X				1
102	Cardinal Trail	1.7	Old Ajo Way to Manzanita park via jeep trail	2540	2600		X	X			1
103	Dakota Wash	1.2	Irvington Rd to Nebraska St, west of Manzanita Park	2540	2650	X		X			1
104	Ironwood Link	1.1	Bopp Rd to proposed TMP boundary and to present TMP boundary	2440	2540	X	X			Leads to Ironwood Picnic area in TMP	1
105	Pena Wash	3.0	Three mile loop to west off Cardinal Trail in Robles Pass Park	2560	2660	X					1
106	Bilby Rd	2.5	Cardinal Ave to Mark Rd	2525	2730			X			1
107	Bopp Rd	8.2	Kinney Rd to Sandario Rd Greenway	2390	2600			X			1
108	Calle Anasazi	0.8	San Joaquin Rd to TMP boundary	2410	2430			X		Access point to TMP	1
109	Cardinal Ave	3.4	Hermans Rd to Nebraska St	2515	2550			X			1
110	Carol Ave	0.9	Bopp Rd to Naomi Rd	2545	2600			X			1
111	Castle Dr	0.2	Sandario Rd to Chipewa Rd	2870	2880			X			1
112	Chipewa Rd	0.7	Castle Rd to Hilltop Rd	2870	3020			X			1
113	Deaver Rd	1.0	Irvington Rd to Bopp Rd	2480	2535			X			1
114	Hilltop Rd	2.6	Chipewa Rd to Sierrita Mtn Rd	2850	3020			X			1
115	Irvington Rd	2.7	CAP Trail to Dakota Wash	2505	2565			X			1
116	Michigan St	1.0	Deaver Rd to Tucson Estates Pkwy	2505	2565			X			1
117	Naomi Rd	0.7	Kinney Rd to TMP	2600	2640			X			1
118	Nebraska Rd	0.3	Cardinal Ave to Manzanita Park	2500	2515			X			1
119	Sandario Rd	4.1	Ajo Way to Castle Dr	2020	2880			X			1
120	Scenic Dr	2.0	Silverbell Rd to Saguaro NP	2130	2270			X			1
121	Sierrita Mtn Rd	10.6	Ajo Way S to Fresnal Wash	2850	3180			X		Link to the Sierrita Mtns via Fresnal Wash	1
123	Tucson Estates Pkwy	1.9	Ajo Way to TMP access point	2525	2660		X	X		Includes gap between Bopp and Kinney Rds	1
124	Twin Peaks Rd	2.9	Quarry Rd to Sandario Rd Greenway	2040	2180			X			1

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
126	Anklam Local	1.9	East from gas pipeline to Santa Cruz River Park	2320	2340	X		X			2
127	Belmont Loop	3.1	Loop S from Wild Horse Wash near Camino Verde the east and north to Belmont Rd	2280	2440	X	X		X		2
129	Greasewood Loop	7.1	Northeast from TMP; 2 legs of loop are Camino de Oeste Wash and Anklam Wash, joined by pipeline. Connects TMP to Greasewood Park and Feliz Paseos Park	2360	2830	X			X		2
130	Middle Branch of East Idle Hr Wash	1.4	From South Branch East Idle Hr Wash northeast to El Camino del Cerro Rd	2380	2600	X					2
131	North Fork Roger Wash	3.4	From TMP northeast to Roger Wash	2370	2800	X					2
132	Painted Hills Wash	2.1	Anklam Rd northeast to Silverbell Rd	2300	2620	X					2
133	Safford Peak	0.9	Picture Rocks Wash west to Saguaro NP	2160	2280	X	X				2
135	Shannon Wash	2.0	From Shannon Rd west to TMP	2520	2740	X					2
136	Silvercroft Wash	1.0	Greasewood Rd west to Lost Starr Dr	2370	2460	X					2
137	South Branches of East Idle Hr Wash	5.6	Sweetwater Wash northeast to Silverbell Rd. Northern fork is tributary of Sweetwater Wash.	2210	2860	X		X			2
138	South Fork Roger Wash	1.1	From TMP to confluence with Roger Wash	2420	2620	X					2
139	South Sweetwater	1.7	South tributary of Sweetwater Wash. Begins at Saguaro NP	2520	3100	X					2
140	Speedway Wash	2.5	Greasewood Loop NE to intersection with pipeline	2380	2600	X					2
141	Sweetwater Trail Rd	1.5	Camino del Cerro to Saguaro NP at Sweetwater Trailhead	2620	3160			X			2
142	Thirty-sixth St Extension	2.6	Enchanted Hills Wash to Mission Rd	2380	2600		X	X			2
143	Trails End Wash	5.3	From TMP boundary to Santa Cruz River park	2240	2900	X		X			2
144	West Idle Hour Wash	3.8	From Saguaro NP, NE across gas pipeline to Silverbell Rd	2220	2600	X					2
145	Yuma Mine Trail	1.5	Yuma Mine Trail through Saguaro NP to Belmont Rd	2160	2460	X	X		X		2
146	Belmont Rd	1.4	Silverbell Rd W to gas pipeline-Links with Belmont Loop and Yuma Mine trails	2200	2330			X			2
147	Cottonwood Ln	0.5	Ajo Way north to 44th St	2370	2400			X			2
148	El Camino del Cerro	5.1	Silverbell Rd west to Saguaro NP boundary	2385	2880			X			2
150	Ironwood Hill Dr	1.5	Camino de Oeste Rd to Painted Hill Rd	2400	2550			X			2
153	Sweetwater Dr	4.4	Roger Wash west to intersection w/Roger extension near TMP boundary	231	2900						2
155	Gas pipeline/Greasewood Loop	12.5	Pima Farms Rd to terminus near west end of Congress St	2160	2550				X		2
157	Cedar Breaks	0.8	From Canada del Oro SE to CNF	3200	3280		X				3
158	El Camino de Manana Wash	6.6	Moore Rd, SW in wash to Prospect Wash	2200	2820	X	X				3

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
159	Golder Ranch Loop to Little Cottonwoods	2.8	Oracle Rd east to Little Cottonwood Link	2960	3080		X	X		Portion (approx. 1.8 miles) road ROW	3
160	Hardy Wash	9.7	East-west trail generally parallel to and north of Hardy Rd, with Rd ROW and cross country portions; second branch from Arthur Pack Regional Park NE to Lambert Ln east of Shannon Rd	2160	2580	X	X	X		Links to Canada del Oro and Santa Cruz River (via Cortaro Farms Rd). Includes 2.1 miles ROW	3
161	La Cholla East	3.5	Two washes located north of the Canada del Oro, near La Cholla Blvd	2400	2620	X		X		Feeds into La Cholla/Honeybee Loop	3
162	Little Cottonwood Link	1.2	East from Catalina State Park/Flat Rock Trail at Golder Ranch Dr to CNF	3080	3200		X				3
163	Prospect Wash	5.4	Dove Mtn Blvd Singletrack Trail SW and S to intersection with Scottie's Loop and El Camino de Manana Wash	2200	2820	X			X	Two mile north-south portion is utility easement.	3
164	Scottie's Loop	11.3	Multiple trails south of Tangerine Rd, east of I-10	2140	2540	X	X			Large loop links with Prospect Wash and E Camino de Manana Wash	3
165	Shannon Extension	3.2	East from Camino de la Tierra to Shannon, then NE to Moore Rd	2624	2840		X				3
166	South Lago Link	0.3	Canada del Oro southeast to Catalina State Park/Flat Rock Singletrack Trail	2970	3160	X	X				3
167	Tortolita Foothills Trail	7.5	East-west trending at base of Tortolitas. Portions former jeep trail. Links many trails and access points.	2240	3320	X	X			Includes extensions into canyons in the Tortolitas	3
168	Twenty-seven Wash	4.2	Southerly wash from Pinal Co line to confluence with Big Wash	2920	3140	X					3
169	Bowman Rd	1.7	Golder Ranch Rd south to Catalina State park	2960	3060			X			3
170	Lambert Ln	0.7	Shannon Rd to La Cholla/Honeybee Loop	2580	3600			X			3
171	Moore Rd alignment	5.8	King Air Dr west to Wild Burro Rd	2494	2870			X			3
172	Potvin Rd	2.4	Camino de la Tierra to Tortolita Rd	2490	2590			X			3
173	Rollins Rd	1.6	Hoot Owl Rd to Golder Ranch Rd	3000	3005			X			3
174	Shannon Rd	1.6	Sahuaro Divide to Linda Vista Rd	2440	2625			X			3
175	Thornydale Rd	3.4	Potvin north to Tortolita Foothill Singletrack Trail	2560	2760			X			3
176	Tortolita Rd	1.5	Potvin N to Tangerine Rd	2540	2636			X			3
177	Twin Lakes	0.5	Wilds Rd to Rollins Rd	3000	3040			X			3
179	Phone Line	9.9	Pinal Co line southeast 7 miles, parallel to I-10, then S about 2 miles to railroad	2080	2240				X		3
180	Power Line Rd	9.3	La Canada Dr NE then N to Pinal Co line	2400	3280				X	Heavily used in places, fenced in places	3
181	Agua Caliente/Tanque Verde Wash Link	1.9	Tanque Verde Wash along Conestoga Ave alignment to Ft Lowell Rd, W to Agua Caliente Wash	2600	2660		X	X	X		4

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
182	Campbell/Camino Real	9.2	Rillito River Park, north on two branches (one just east of Campbell Ave and one east of Camino Real), connecting across Camino a Los Vientos. Single branch continues north just east of Campbell Ave to Ina Rd alignment. Continues east or west along Ina Rd alignment to Finger Rock Wash or Geronimo Wash	2280	3040	X	X	X			4
183	Carmack Wash	5.3	Linda Vista Blvd to Shannon Rd	2410	2600	X					4
184	Nanini Wash	2.1	Ina Rd to Orange Grove Rd, E on utility easement, S of Orange Grove to La Canada Dr and Casas Adobes Wash	2260	2440	X	X	X	X		4
185a	Casas Adobes Loops	3.7	Oracle Rd to Rillito River	2310	2380						4
185b	Citrus Wash	1.1	Rudasill to Las Lomitas Rd to Sunset	2340	2410					(part of Casas Adobes Loop)	4
185c	Las Lomitas Wash		La Canada Dr to Roller Coaster Wash	2240	2400					(part of Casas Adobes Loop)	4
186	Cloud Wash and Ridge	2.4	Snyder Rd S up ridge, into wash and S to Tanque Verde Wash	2495	2900	X	X				4
188	Craycroft Wash	3.1	Finisterra S to confluence with Tanuri Wash	2620	3200	X					4
189	Escalante Wash	1.9	Melpomene Way west to Pantano Wash	2790	2950	X					4
190	Flecha Caida Wash	1.6	Calle Barril to Rillito River	2400	2680	X					4
191	Forty Niners Wash	1.8	CNF boundary to Wentworth Rd	2700	2950	X					4
192	Freeman/Del Este	3.2	Tanque Verde Wash southwest to Melpomene Way	2620	2950	X	X	X			4
193	Friendly Village/Via Entrada	3.6	Rillito River N across River Rd to Friendly Village Wash, N to Via Entrada, E on road median to Via Entrada Wash, S along wash and dirt road, across River Rd to Rillito River	2280	2480	X		X			4
194	Hacienda del Sol Wash	2.3	Sunrise Rd alignment to Rillito River	2280	2640	X	X				4
197	Roller Coaster Wash	3.0	Panorama Rd to Rillito River	2260	2480	X					4
198	Melpomene Loop	1.0	Cross-country loop northwest of north end of Melpomene Way	2820	3100		X				4
199	Harrison Rd alignment	4.4	Tanque Verde Wash to CNF	2540	2680			X			4
200	Pegler Wash	0.9	Ina Rd to La Cholla Blvd	2350	2410	X					4
201	Pontatoc/Valley View/Flecha Caida	6.5	Rillito River N along Pontatoc Wash to Flecha Dr where three branches begin. One almost straight north 0.8 miles. One north and east up Valley View Wash 0.8 miles. The third northeast, across Swan Dr, to Camino Francisco Soza, to Craycroft. The first two branches combine and trend east, across Swan Dr, to Craycroft.	2380	2840	X	X	X	X		4
202	Pontatoc Wash	0.5	Sunrise Dr to south extension of Calle del Pantera	2640	2720	X					4
203	Race Track Wash	2.6	Orange Grove Rd to Via Entrada Wash	2320	2620	X					4
204	Reyes Wash	0.6	Reyes Wash Trail southeast to Tanque Verde Loop	2580	2910	X					4
207	Spanish Trail Wash	2.8	Freeman Rd to Houghton Rd	2860	3060	X					4

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
208	Tanuri/Craycroft	6.6	Rillito River N via wash to east fork of Craycroft Wash, east fork of Craycroft Wash to utility easement south of Sunrise Dr, E to west fork of Tanuri Wash, S along Tanuri Wash to Rillito	2440	2920	X			X	Craycroft Wash channelized in its lower reach	4
209	Tanuri Wash-East tributary	2.8	From confluence east branch of Tanuri/Craycroft, north of River Rd, north to intersection of Sunrise Dr and east branch of Tanuri/Craycroft	2540	2800	X					4
210	Valley View Wash	3.4	CNF boundary to Cerco de Corazon Circle	2640	3400	X					4
211	Via Entrada Wash	2.7	Just north of Ina Rd alignment to Via Entrada Rd	2480	3020	X					4
212	Via Entrada Wash-east tributary	2.0	1/4 mile south of Orange Grove to confluence w/Via Entrada Wash	2360	2685	X					4
213	Ave del Conejo	0.5	Snyder Rd south to Camino Palo Verde	2730	2750			X			4
214	Bear Canyon Rd alignment	2.2	Pine Tree Wash to CNF boundary	2560	2780			X			4
215	Birch Way alignment	0.5	Canada del Oro to Verch Way	2375	2383			X			4
216	Broadway Blvd	2.0	Melpomene Way to Wentworth Rd	2760	2820			X			4
217	Calle Loma Linda alignment	1.0	Hardy Rd to Linda Vista Blvd	2440	2520			X			4
218	Camino Coronado/Camino de Anza	1.4	Crisscross entire length of Section 23 (T12S, R14E)	2530	2550			X			4
219	Ft Lowell Rd	4.1	Tomahawk Trl to CNF	2640	2790			X			4
220	Hardy Rd alignment	1.0	Calle Loma Linda to Verch Way	2480	2500			X			4
222	Jeanette Ave	0.3	Tanque Verde Rd north to Giant Cacti Dr	2560	2600			X			4
223	Kleindale Rd	0.5	Bonanza Ave to Houghton Rd	2620	2660			X			4
225	La Oeste/Pine St/Morningview Dr	1.2	Hardy Rd to Magee Rd	2500	2520			X			4
226	Linda Vista Blvd	2.0	La Canada Dr to CNF	2420	2580			X			4
227	Melpomene Way	2.8	Agua Caliente Wash N to loop trail just south of CNF boundary	2600	2800			X			4
228	Melpomene Way alignment	5.8	Pantano Wash to Tanque Verde Wash	2590	2978			X			4
229	Montebella Rd	1.0	Orange Grove Rd to Rudasill to Casas Adobes Wash loops	2340	2340			X			4
230	Prince Rd	0.5	Bonanza Ave to Houghton Rd	2620	2664			X			4
231	Redington Rd	3.3	Wentworth Rd to CNF boundary	2699	3000			X			4
232	Roger Rd alignment	1.9	Agua Caliente Wash to Wentworth Rd to CNF	2700	2840			X			4
233	Roger Rd alignment	0.8	Melpomene Way west to Catalina Hwy	2700	2720			X			4

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
234	Snyder Rd alignment	7.6	Tanuri Wash, East Trib east to Agua Caliente Wash	2600	2800			X			4
235	Tanque Verde Rd	3.0	Woodland Rd east to Amberwood Dr, north to Ft Lowell, west to Bonanza, east to Catalina Hwy	2560	2591			X			4
236	Verch Way	0.2	Hardy Rd alignment to Birch Way	2390	2430			X			4
237	Wentworth Rd alignment	4.1	Broadway Blvd to Roger Rd	2660	2810			X			4
238	Woodland Rd east end alignment	0.6	Tanque Verde Rd to Tanque Verde Wash	2535	2560			X			4
239	Friendly Village drainageway	0.8	Canyon View Dr S to Friendly Village/Via Entrada Singeltrack Trail	2360	2440	X					4
240	Linda Vista easement	0.6	Linda Vista Blvd N to Canada del Oro	2440	2512		X				4
241	Pine Tree Wash to Prince Rd	0.8	Pine Tree Wash south to Prince Rd, just west of Wolford Rd	2645	2680	X					4
242	Agua Verde Link	1.1	Lower Agua Verde Creek north to CNF	3560	3720	X					6
243	Agua Verde North Fork	1.0	Upper Agua Verde Creek to CNF	3730	3920	X					6
244	Andrada Ranch Link	3.5	Davidson Canyon Singletrack Trail to Mt Fagan Loop Singletrack Trail	3820	3920		X			Entire trail on jeep road	6
245	Arrowhead	0.8	Power Line Singletrack Trail north to CNF	3620	3760		X			Entire trail on jeep road	6
246	Coyote Wash	6.1	Rincon Creek east to Posta Quemada	3000	3560	X					6
247	Davidson Local	2.9	Davidson Loop east to Total Wreck Local	3800	4000		X				6
248	Davidson Loop	3.4	Old Sonoita Hwy to Davidson Canyon to Old Sonoita Hwy	3700	3840		X				6
249	Garrigans East	1.5	Old Spanish Trail S then W to Garrigans Loop	3120	3130		X				6
250	Garrigans Loop	4.8	Pantano Wash at Esmond Rd E to Wentworth Rd, N to Los Reales Rd, W to Lazy R Ranch Rd, S to Garrigans Gulch, W to Pantano Wash	2960	3120	X	X	X			6
251	Gas-Power East	1.1	Easternmost local from El Paso Gas Pipeline to power line	3640	3800		X		X	Entire trail on jeep road	6
252	Gas-Power Middle	2.4	Drainage extending south from Cienega Creek under I-10 to El Paso Gas Pipeline and power line	3480	3680	X					6
253	Gas-Power West	2.7	North-south drainage between Cienega Creek to power line	3400	3720	X					6
254	Hope Camp	0.2	Rincon Creek to Saguaro NM	3160	3240		X				6
256	Mt Fagan East Loop	7.5	Sahuarita and Davidson Rds S to Twin Tanks Trail, N to Mt Fagan West Loop, and return to origin	3680	4240		X			Parts of trail on jeep roads	6
257	Mt Fagan West Loop	6.1	Andrada Ranch Link to Sahuarita Link Trail, then N, and eastern loop to Mt Fagan East Loop and origin	3680	4160		X			Parts of trail on jeep roads	6
258	North Coyote	0.2	Drainage north from Rincon Creek to Saguaro NP	3000	3120	X					6

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
259	Phoneline Link	0.9	Rincon Creek north to Saguaro NP	3220	3400		X				6
260	Red Hill Ranch Rd	3.3	Marsh Station Rd to north to Power Line Singletrack Trail	3560	3640		X			Entire trail is on jeep roads	6
261	Rincon Creek South Fork	1.3	Confluence w/Rincon Creek to Saguaro NP	3200	3400	X					6
263	Rocking K	2.7	Garrigans Loop north to Hope Camp	2960	3160	X	X				6
264	Sahuarita-Mt Fagan Link	5.3	Houghton Rd SE to Mt Fagan West Loop	3220	4160		X			Parts of trail on jeep roads	6
265	Thunderbird Trail	1.5	Rincon Creek to Hope Camp	2920	3080		X				6
266	Total Wreck Local	8.3	Power line SE to Cienega Creek Natural Conservation Area	3700	4200		X			Entire trail is on jeep roads	6
267	Twin Tanks	3.5	Hwy 83 to Mt Fagan East Loop		4280		X			Entire trail is on jeep roads	6
268	Upper Agua Verde Creek	4.1	Power line to eastern end		3920	X					6
269	Vail Loop	2.5	Colossal Cave Rd southeast on pipeline, east to Cienega Creek Trail		3300	X	X		X		6
270	Andrada Rd	2.0	Wentworth Rd to Davidson Rd	3420	3480			X			6
271	Arizona Hwy 83	3.0	Intersection of Sahuarita Rd and AZ Hwy 83 southeast to Old Sonoita Hwy	3420	3990			X			6
273	Davidson Rd	1.9	Andrada Rd to Sahuarita Rd	3480	3680			X			6
274	Garrigans Gulch	1.4	Camino Loma Alta west to Garrigans Loop	3120	3230			X			6
275	Old Sonoita Hwy	6.3	Entire length along Arizona Hwy 83	3440	3990			X			6
276	Cross Hill/Pipeline	4.9	Pipeline east from Red Hill Ranch Rd to Mescal Arroyo	3600	3880				X		6
278	Gas pipeline	7.6	Sonoita Hwy east to Cienega Creek	3320	3720				X		6
279	Power Line	8.8	Old Sonoita Hwy to Cienega Creek	3520	3840				X		6
280	Power Line	5.2	Lower Agua Verde Creek to Arrowhead Water Tank Rd	3280	3720				X		6
281	Arroyo #17	2.1	Tailings Pond Rd E to Continental Rd	2850	3140	X		X	X		7
282	Canoa West Loop	4.4	Westerly loop from South Tailings Pond Rd	3240	3400	X	X				7
283	Cattle Loop	1.3	Southeast loop off Alvernon Extension and Dawson Rd	2840	3870		X				7
284	El Toro Rd to Dawson Rd	0.5	NW by SE route just west of Alvernon Way	2780	2810	X	X				7
285	Head East Trail	4.7	East-west route, w/western end at junction of Pig Farm and Well Trails	2710	2820	X	X				7
286	Helmet Peak Loops	4.6	Loops between Helmet Peak Rd and El Toro Rd east and west of I-19; crosses several small washes	2760	2900	X	X				7
287	Landing Strip	1.8	Along former landing strip in north Sahuarita Heights	2710	2780		X				7
288	Pig Farm	2.4	North-south route, south end at intersection with Head East Trail, near Sahuarita and Delgado Rds	2680	2730	X	X				7

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
289	Power Line Loop	4.9	NE Powerline Trail from Madera Canyon Wash to intersection with northwest trending wash, then NW to Santa Cruz River	2910	3200	X	X		X	Approx. 2 miles utility easement north of Madera Canyon Wash	7
290	Tailings Pond Rd	6.5	At eastern and southern base of tailings pond; on private mining company road	3120	3200		X				7
291	Well Trail	0.7	NW from Sahuarita Rd/Delgado Rd to intersection of Head East and Pig Farm trails	2710	2730		X				7
292	West Loop-Green Valley/ Arroyo #7	1.0	From Beehive Loop to La Canada	2820	3180	X	X	X	X		7
293	West Madera Loop	4.6	Eastern loop off Canoa Dr	3080	3360	X	X				7
294	West Toro	9.6	Starlight Canyon Trail east to La Vallita Rd	2720	3780		X	X	X		7
296	Batamote Rd	2.4	Santa Cruz Co line N to intersection with Proctor Wahsh/Bob Brown Lateral	3310	3080			X		Access to Proctor Wash/Bob Brown Lateral Trail across State Trust Land.	7
298	Country Club Rd	0.8	Dawson Rd south to Santa Rita Rd	2780	2810			X		Part paved, part dirt	7
299	Delgado Rd	1.3	Sahuarita Rd to El Toro Rd	2690	2760			X			7
301	El Toro Rd/East	1.0	Country Club Rd east to Alvernon Way	2760	2805			X		Part paved, part dirt	7
302	La Canada	2.1	Mission Twin Buttes N of Esperanza Blvd	2900	2960			X			7
303	Las Quintas	2.0	South of El Toro Rd for approx. 2 miles	2880	2885			X			7
304	Mission Twin Buttes	0.6	Between Camino del Sol and La Canada Dr	2970	3020			X			7
305	Santa Rita Rd	4.0	Sahuarita Rd to Santa Rita Experimental Range	2710	3880			X			7
306	Green Valley/West Grant boundary line power line	6.6	Esperanza Blvd to south end of Via Montana Vista	2940	3100				X	Dirt road on portions of easement	7
307	Power line/Country Club Rd	1.5	Sahuarita Rd south to Dawson Rd	2730	2780			X	X		7
321	Eighteenth St	0.5	Kroeger Ln to Main Ave	2350	2360			X			8
323	Kroeger Ln	0.5	Santa Cruz River to 22nd St	2350	2360			X			8
325	GV Arivaca Loop	11.6	From Santa Cruz Co line NW then E to GV Gas Line					X			
326	GV Caterpillar Trail	4.5	GV Demetrie Bike Route east to Camino del Sol				X	X			
327	GV Demetrie Bike Route	3.7	Loop between Tailings Pond Rd and Via Cielo Azul			X	X				
328	GV Escondido Wash	3.5	Loop trail west of GV Marley Ranch Trails			X	X				
329	GV Esperanza Wash	3.2	Northern loop to Esperanza Wash			X	X				
330	GV Gas Line	19.0	San Xavier Indian Community south to Santa Cruz Co line						X		

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
331	GV Marley Ranch Trails	10.0	Crisscross of trails between GV Gas Line and I-19			X	X	X			
332	GV Sieritta Trail 1	7.1	East-west trail between Sierrita Mtn Rd and GV Sieritta Trail 2					X			
333	GV Sieritta Trail 2	6.6	Loop trail connecting GV Sierrita Trail 1, Standing Rock Trail, and McGee Ranch Rd					X			
334	GV Standing Rock Trail	16.0	Double trail loop north and east of proposed Sieritta Mtn Park								
335	GV WDP	0.9	North-south connection between Continental Rd and Arroyo #17				X	X			
336	GV WDP	0.5	East-west connection between GV Beehive Loop and GV Conejo Loop				X				
337	GV WDP Beehive Loop	2.9	North-south trail on east edge of West Desert Preserve with loop to west midway			X	X	X			
338	GV WDP Conejo Loop	3.1	Double loop on west edge of West Desert Preserve off of Duval Mine Rd			X	X	X			
339	GV WDP Desert Trail	1.8	Two branch trails extending northeast from intersection of Duval Mine Rd and Continental Rd			X	X	X			
340	GV WDP OK Corral	1.8	From intersection of Tailings Pond Rd and Continental Rd east to power line			X					
341	GV WDP Saguaro Trail	1.4	Two branch trails extending northwest from south end of GV Beehive Loop to GV OK Corral			X	X				
342	GV WDP Water Tank Trail	1.5	Two branch trails extending north from Continental Rd to GV Conejo Loop				X				
343	TMP 36th Street Trl	0.6	Enchanted Wash Trail northwest to Starr Pass Trail			X	X				
344	TMP Avery Bryce Trl	2.5	Prospector Trail to Kerr Jar Trail			X					
345	TMP Bowen Trl	0.8	Yetman Trail to Starr Pass Trail			X	X				
346	TMP Brown Mountain Trl	4.2	Loop north and west of Ringtail Trail				X				
347	TMP Caliche Flats Trl	3.4	From Creosote Trail east to park boundary				X				
348	TMP Campground Trl	1.1	East-west trail between Well Rd Trail and Gates Pass Trail				X				
349	TMP Chaparral Trl	0.5	North-south trail between Gates Pass Rd and Ironwood Trail				X				
350	TMP Cheops Trls	0.3	SW to NE between Gates Pass Rd and Gates Pass Trail				X				
351	TMP Cougar Trl	3.2	SE to NW between Gates Pass Rd and Kinney Rd				X				
352	TMP Coyote Trl	0.4	SW to NE between Tucson Estates Trail and Yetman Trail				X				
353	TMP Creosote Trl	0.6	North-south between Caliche Flats Trail and Prospector Trail				X				
354	TMP Explorer Trl	2.6	Connects Ajo Way and Greasewood Rd alignment greenways				X				
355	TMP Gates Pass Trl	4.3	East-west between Prospector Trail and Gates Pass Rd				X				
356	TMP Hidden Canyon Trl	1.2	Loop north of Bowen Trail				X				
357	TMP Ironwood Trl	4.6	East-west from Caliche Flats Trail to Gates Pass Rd				X	X			

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
358	TMP Kerr Jar Trl	0.8	Avery Bryce Trail south to Kinney Rd				X				
359	TMP Mariposa Trl	0.5	North-south between Gates Pass Trail and Avery Bryce Trail				X				
360	TMP Old Adobe	0.2	North-south from Tucson Estate Trail to TMP boundary				X				
361	TMP Orcut Trl	2.9	Gates Pass Rd north to Saguaro NP				X				
362	TMP Palo Verde	0.6	Tucson Estates Parkway Trail north to Tucson Estates Trail				X				
363	TMP Peak View	0.5	Yetman Trail south to TMP boundary				X				
364	TMP Prickley Pear Trl	0.2	Ironwood Trail to Rattlesnake Trail				X				
365	TMP Prospector Trl	3.8	East-west between Well Rd Trail to Kinney Rd				X				
366	TMP Rattlesnake	0.3	North-south between Prickly Pear Trail and Gates Pass Trail				X				
367	TMP Ringtail	0.6	North-south between Brown Mtn Trail and Cougar Trail				X				
368	TMP Rock Wren	1.0	East-west between Yetman Trail and Starr Pass Trail				X				
369	TMP Saguaro Rib	0.2	North-south between Starr Pass Trail and Yetman Trail				X				
370	TMP Sego	0.2	North-south between Gates Pass Trail and Campground Trail				X				
371	TMP Silver Ore	0.2	Prospector Trail south to TMP boundary				X				
372	TMP Siphon	0.3	Branch trail off Orcut Trail south to Gates Pass Rd				X				
373	TMP Starr Pass	6.7	From Yetman Trail south to TMP boundary, north and east to Hidden Canyon Trail				X				
374	TMP Starr Pass Road	0.5	Connects CAP to Starr Pass Trail					X			
375	TMP Triple C	0.9	North-south between Well Rd Trail and Avery Bryce Trail				X				
376	TMP Tucson Estates	1.5	SW to NE from Kinney Rd to Yetman Trail				X				
377	TMP Well Rd	2.9	SW to NE from CAP to Brown Mtn Trail								
378	TMP Yetman	5.8	U-shaped trail connecting Gates Pass Rd on the west to Greasewood Loop on the east				X				
379	WV Central Arizona Project	1.0	SW to NE from Bopp Rd to Starr Pass Trail						X		
380	WV Mile Wide Rd	4.0	Sandario Rd Greenway west to Ironwood Forest NM					X			
381	WV Trico Rd	2.0	Manville Rd south to Ironwood Forest NM					X			
382	AV Orange Grove Rd	3.0	Pipeline Singletrack Trail west to Ironwood Forest NM						X		
383	AV Pipeline	25.0	Sandario Rd Greenway NW to Ironwood Forest NM; NE to CAP						X		
384	AV Valley El Tiro Rd	4.6	Brawley Wash west to Ironwood Forest NM			X					
385	MAR Camino de Manana	1.1	From I-10, NE 1 mile					X			

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
386	MAR Canada Agua Wash 2	1.3	SW to NE from Thornydale Rd to Tangerine Greenway			X					
387	MAR Dove Mtn Blvd	5.4	North from Tangerine Greenway to Upper Javelina Trail					X			
388	MAR Lambert Ln East	1.0	East-west from Scottie's Loop to El Camino de Manana Wash					X			
389	MAR Lambert Ln West	2.6	South from Avra Valley Greenway then east to Anza West and Anza Trail				X	X			
390	MAR Marana Rd East	1.0	East-west from Sanders Rd to Sandario Rd					X			
391	MAR Marana Rd West	2.6	Brawley Wash east to Santa Cruz River					X			
392	MAR Phoneline Marana	0.6	North-south connection between south end of Phoneline and Tortolita Preserve					X			
393	MAR Sanders Rd	0.5	North on Sanders Rd from Marana Rd					X			
394	MAR Twenty-Niner Trail - Marana	4.0	Looping trail in the Tortolitas connecting Cottonwood Wash and Nine to Five Wash				X				
395	MAR Unnamed	0.4	South from Tangerine Rd to Santa Cruz River				X				
396	MAR Unnamed 11 - Marana	1.1	North and west from Unnamed 9, inside Twenty-niner Trail				X				
397	MAR Unnamed 12 - Marana	1.9	North of and connecting to Wild Burro Trail				X				
398	MAR Unnamed 13-1 - Marana	0.6	Connects Wild Burro Trail and Ridgeline Trail				X				
399	MAR Unnamed 14 - Marana	2.1	North-south between Ridgeline Trail and Unnamed 18				X				
400	MAR Unnamed 15 - Marana	0.7	Connector between segments of Ridgeline Trail				X				
401	MAR Unnamed 16 - Marana	2.4	SW to NE between Tortolita Foothills Trail and Unnamed 14				X				
402	MAR Unnamed 18 - Marana	1.3	North-south west of Vulture Peak Trail				X				
403	MAR Unnamed 19 - Marana	1.9	East-west between Thornydale Rd and La Cholla/Honeybee Loop			X	X				
404	MAR Unnamed 23 Villages at Dove Mtn	0.5	South and east on Owl Head Canyon Rd and Dove Mtn Park Rd between Moore Rd and Dove Mtn Rd					X			
405	MAR Unnamed 24 - Marana	1.6	North and west from Camino de Marana, parallel to Scottie's Loop				X				
406	MAR Unnamed 9 - Marana	3.9	SW to NE from Tortolita Foothills Trail to Pinal Co line			X	X				
407	MAR West Silverbell Rd	0.6	SW from Brawley Wash to Ironwood Forest NM					X			
408	MAR Wild Burro Trail - Marana	3.3	SW to NE from CAP Trail to Tortolita Preserve Trail			X					
409	Oro Valley 01	0.6	SE to NW from Oro Valley 05 to Tangerine Rd			X					
410	Oro Valley 02	1.2	North-south from Tangerine Rd to Moore Rd			X					
411	Oro Valley 03	2.7	North-south from Glover Rd to Earhart Way east of Kingair Dr			X					
412	Oro Valley 04	0.3	East-west between Sawtooth Rd and Oro Valley 05					X			

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
413	Oro Valley 05	2.0	North-south between Canada del Oro River Park and Tangerine Rd west of 1st Ave			X					
414	Oro Valley 06	1.7	North-south between Canada del Oro River Park and Tangerine Rd east of 1st Ave			X					
415	Oro Valley 07	0.7	East-west between Rancho Vistoso Blvd and Oro Valley Trail #156 on Moore Rd alignment				X				
416	Oro Valley 08	0.6	North from Oro Valley 09			X					
417	Oro Valley 09	0.4	East-west between Oro Valley 17 and Rancho Vistoso Blvd			X					
418	Oro Valley 10	0.1	West from Oro Valley 18 to Cork Oak Pl				X				
419	Oro Valley 11	0.1	Short trails at northeast corner of Hohokam Park				X				
420	Oro Valley 12	0.1	Southeast from Oro Valley 18 to Milbrae Dr				X				
421	Oro Valley 13	0.3	Northwest from Moore Rd, west of Eagleview Dr			X					
422	Oro Valley 14	1.2	North-south from Woodburne Ave to Moore Rd, west of Rancho Vistoso Blvd			X					
423	Oro Valley 15	0.2	East-west from Woodburne Ave to Oro Valley 16			X					
424	Oro Valley 16	1.5	North-south from Tangerine Rd to Moore Rd, west of Woodburne Ave			X					
425	Oro Valley 17	0.1	East-west between Oro Valley 09 and Oro Valley 18			X					
426	Oro Valley 18	0.3	East-west between Oro Valley 10 and Oro Valley 17			X					
427	Oro Valley 19	0.4	East-west from La Cholla/Honeybee Loop and WAPA Line Trail along Arrowsmith Dr			X	X				
428	OV Calle Concordia	2.0	La Canada to CNF				X				
429	OV Eagle View	0.6	North-south from Moore Rd to Oro Valley 09, west of Rancho Vistoso Blvd			X					
430	OV Naranja Townsite Park	4.2	Multi-looped trails in Naranja Townsite Park				X				
431	OV Trail #156 - OV	3.2	North and east from La Cholla/Honeybee Loop, south of Tangerine Rd, north to apprx Chrysanthemum St				X				
432	OV Trail #2 - OV	0.5	East-west from La Cholla/Honeybee Loo to Canada del Oro River Park				X				
433	OV Trail #322 - OV	1.2	East-west from WAPA Line Trail to Rancho Vistoso Blvd				X				
434	OV Trail #33 East - OV	0.2	East-west connection from La Cholla/Honeybee Loop to WAPA Line Trail				X				
435	OV Trail #33 West - OV	3.3	North-south from Moore Rd to Honeybee Trail			X	X				
436	OV Unnamed - OV	0.3	Extends west from WAPA Line Trail				X				
437	TOR Alamo Springs Trail	3.8	Connects Wild Burro Trail and Javelina Trail				X				
438	TOR Batamote Trail	2.8	Connects Boulder Basin Loop Trails and Honeybee Canyon Trail				X				
439	TOR Boulder Basin Loop Trail	5.1	Loop trail connecting Vulture Peak, Canada Agua, Boulder Link, and Batamonte trails				X				

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
440	TOR Boulder Link Trail	0.3	Connects Boulder Basin Loop Trail and Honeybee Canyon Trail				X				
441	TOR Canada Agua Trail	3.0	East-west between Vulture Peak Trail and Boulder Basin Loop Trail				X				
442	TOR Cochie Canyon Trail	5.2	Connects Twenty-niner and Tortolita Foothills trails to Pinal Co line				X				
443	TOR Donna B Trl	2.2	SW to NE from Ridgeline Trail to Pinal Co line				X				
444	TOR Fresnal Canyon Trl	0.3	North from Wild Burro Trail to Pinal Co line				X				
445	TOR High Country Loop Trl	1.5	North-south from Honeybee Canyon Trail to Canada Agua Trail				X				
446	TOR Honeybee Canyon Trl	4.5	East-west from Oro Valley Trail #33 West to Baramonte Trail				X				
447	TOR Lower Javelina Trl	1.9	Two trail branches connecting Wild Burro Trail to Upper Javelina Trail				X				
448	TOR McKenzie Trail South	4.0	SW to NE from Cochie Canyon Trail to Pinal Co line			X	X				
449	TOR Nine-to-Five Trl	0.6	North-south between Twenty-niner Trail			X	X				
450	TOR Over-The-Ridge Trl	0.3	East-west between Cochie Canyon and Wild Mustang Singletrack Trails				X				
451	TOR Ridgeline Trail	7.0	Winding trail north from Vulture Peak Trail then west to Alamo Springs Trail				X				
452	TOR Scrub Oak Trail	0.8	Connects Vulture Peak and Donna B Singletrack Trails				X				
453	TOR Southern Pinal Regional Trail	0.07	Small segment of trail at west end of Edwin Rd				X				
454	TOR Tortolita Peak Trail	1.1	South from Donna B Singletrack Trail				X				
455	TOR Tortolita Preserve Trail	9.3	Loop trail around Tortolita Preserve				X				
456	TOR Twenty-Niner Trail - Pinal	0.2	Trail north from Vulture Peak Trail to Pinal Co line				X				
457	TOR Upper Javelina Trail	3.3	Connects Dove Mtn Blvd, Tortolita Foothills, Wild Mustang, and Wild Burro Singletrack Trails				X				
458	TOR Vulture Peak Trl	5.7	North-south from La Cholla/Honeybee Loop to Twenty-niner				X				
459	TOR Wild Burro Trail - Oro Valley	0.3	From Donna B north to Pinal Co line				X				
460	TOR Wild Mustang Trail	3.8	SW to NE from Upper Javelina to Wild Burro			X	X				
461	NWT/OVA Canyon Vista Trl A-12	0.7	from Ridgerock Trail to CNF boundary				X				
462	NWT/OVA Columbus Blvd Trl A-13	1.5	from Hawser St to Edwin Rd				X				
463	NWT/OVA Equestrian Trail Rd Trl A-16	1.2	from Catalina State Park/Flat Rock to Hawser St to Mainsail Blvd alignment					X			

Trail No.	Trail Name	Length	Route	Lowest	Highest	Wash	Cross Country	Rd Right-of-way	Utility Easement	Comments	Subregion
464	NWT/OVA Golder Residence Road Trl A-15	1.9	from terminus of Golder Ranch Rd to CNF boundary					X			
465	NWT/OVA Mainsail Blvd Trl A-9	2.3	from Big Wash RIver Park to Canada del Oro Wash				X				
466	NWT/OVA Miraval Trail	0.4	from Lago del Oro Canada del Oro Wash				X				
467	NWT/OVA Pinto Ln	0.5	from Columbus to Swan					X			
468	NWT/OVA Ridgerock Trl A-11	0.2	from Edwin Rd to Canyon Vista Rd					X			
469	NWT/OVA Swan Rd Trl A-10	1.0	from Mainsail Blvd to Edwin Rd					X			
470	NWT/OVA Twin Lakes Rd	1.0	from Mainsail Blvd to Golder Ranch Rd					X			
471	NWT/OVA Wilds Rd	2.0	from Oracle Rd to CDO Wash, north on CDO Wash to eastern alignment of Wilds Rd, to Golder Residence Rd					X			
472	E/NET Freeman Rd	2.6	from Broadway Blvd to Old Spanish Trail					X			
473	E/NET Horsehead Rd	1.4	North from Snyder Rd then east to CNF boundary					X			
474	E/NET Soldier Trl	5.1	from Tanque Verde Rd to Snyder Rd					X			
475	RV A-1 Camino Loma Alta to Pistol Hill Rd	4.5	Connects Camino Loma Alta to Pistol Hill Rd				X				
476	RV A-31 Rocking K West	2.8	South from Rincon Creek Greenway to Garrigan's Loop then northwest to Pantano Wash				X				
477	RV A-32 Rocking K East	4.8	South from Old Spanish Trail on Rincon Mesa Dr to Pantano Wash			X	X	X			
478	RV Camino Loma Alta Loop	7.2	Circular trail with connections to Old Spanish Trail, Pistol Hill Rd, and Camino Loma Alto Greenway				X				
479	RV Pistol Hill Loop	5.2	Circular trail with connections to Old Spanish Trail, Pistol Hill Rd, and Colossal Cave Rd				X				
480	SE Canyon Edge Trl	1.3	Connects Sycamore Canyon Greenway to Santa Rita Experimental Range					X			
481	SE Cherry Canyon	6.9	NW to SE from Railroad Bed to CNF			X	X				
482	SE Cochise Trl	11.7	North and paralleling railroad from Cienega Creek to Railroad Bed Singletrack Trail				X				
483	SE Fagan Ranch Link	0.8	North-south from Camino Aurelia to CNF				X				
484	SE Granite Peak Rd	3.9	North from Santa Cruz Co line through Sands Ranch to CNF					X			
485	SE Railroad Bed Trl	8.4	Cienega Creek to Cochise Co line						X		
486	SE Wakefield Canyon	5.5	Branches off Cherry Canyon to west and south, then east to CNF				X				
487	SE Whetstone Stage Line Trl	4.6	Railroad Bed Trail to Cochise Co line				X				

Finger Rock Trailhead

Implementation and Funding

In this chapter

Improvement action plan

Funding options and opportunities

A. Action Plan

Strategies

The following strategies are proposed to implement the trail system shown in this plan:

- Have all participating jurisdictions (Pima County, Tucson, South Tucson, Marana, Oro Valley, and Sahuarita) adopt the *Pima Regional Trail System Master Plan* as their guiding document for trail and path development.
- Have all participating jurisdiction's (Pima County, Tucson, South Tucson, Marana, Oro Valley, and Sahuarita) planning departments work with developers, whose projects encompass or abut the various elements included in this plan, to provide the right-of-way, as necessary, to implement them, consistent with expressed standards. Certain elements along roadways may be partially accommodated in the existing public right-of-way, if sufficient right-of-way exists. However, if sufficient public right-of-way does not exist, or if staff determines the final product will not provide the desired quality of experience, the developer shall provide additional right-of-way to achieve the desired minimum corridor widths as set forth in the design standards section of this plan.
- Have all jurisdiction's (Pima County, Tucson, South Tucson, Marana, Oro Valley, and Sahuarita) planning departments work with developers who are constructing residential or commercial projects that abut one of the features of the system to provide a corridor for and/or construct the subject feature.
- Additions to this plan may be recommended by any participating jurisdiction but will be subject to review by the Director of the Natural Resources, Parks and Recreation Department and the other participating jurisdictions.
- Any participating jurisdiction that has a Scenic Corridor definition that does not allow trails should formally change the definition to allow trails.

- Pima County and the five jurisdictions shall prepare a matrix for the major watercourses which assigns maintenance responsibility using the following criteria:
  - Flood control and drainage facilities including but not limited to river and wash bottoms, bank protection, safety railings, wash/river bottom access ramps, should be the responsibility of the Flood Control District of Pima County.
  - Jurisdictions parks and recreation departments/divisions in cooperation with their public works/transportation departments/divisions should be responsible for Paths and Trails and their related amenities such as but not limited to site furniture, sign installation and maintenance, pedestrian level lighting, plants and irrigation systems directly related to the path/trail, trash removal, sweeping, inspections, trail and path repair and replacement (unless the path acts as a primary pedestrian route along public roadways), weed control, trail and path cross drainage control, public education, revegetation, habitat enhancement and control, program budget development, volunteer coordination, records, and graffiti control.
  - The recommended breakdown of facility responsibility, other than flood control related, for River Parks or the Urban Loop is:

JURISDICTION	RESPONSIBILITY
Pima County	Santa Cruz River (southern county line to Marana town limits) Rillito River Julian Wash (from Santa Cruz to Diversion Channel) Cañada del Oro (in jurisdiction)
City of Tucson	Pantano Wash Houghton Greenway Julian Wash (except Diversion Channel)
Marana	Santa Cruz within Marana town limits Cañada del Oro (in jurisdiction)
Oro Valley	Cañada del Oro (in jurisdiction) Big Wash

  - Joint efforts between all jurisdictions could include law enforcement education, volunteer and staff training, corridor sign design, public education campaigns for safety, health, history and interpretation, and fund raising.

- Pima County and the five participating jurisdictions will develop the necessary IGAs to clarify the divisions of responsibility

Projects

All features listed in the Master Plan, beginning on Page 89, are potential projects or action items for completion. The projects were not prioritized because all features of the plan are deemed equally important to the overall continuity and function of the system. Some may be completed fully or partially through development agreements; others may come about through jurisdictions working in partnership. Some projects may occur in the distant future as redevelopment occurs and land currently unavailable becomes available.

Regional implementation projects to consider are:

- Region-wide trail events to focus the community's attention on their trails system.
- Education programs that teach trail etiquette, trail building skill for potential volunteers, or similar topics.
- Instigate regulatory changes as needed.
- A sign program developed with the guidance of all the jurisdictions.
- Promote a public art program associated with features of the trails system.

B. Funding Options and Opportunities

A variety of sources and mechanisms exist to fund the development of the Regional Trail System. They include:

Bond Funding

In the past, the 1997 and 2004 Pima County Bond elections provided funding for river park and trail system development via general revenue bonds. It is expected that future Pima County bond programs will include some amount of funding for trail system development until the system is complete. Individual jurisdictions within Pima County should also conduct their own bond elections for trail system development.

Developer Contributions

Developers whose property encompasses or abuts a trail corridor listed in the *Pima Regional Trail System Master Plan* will be asked, at a minimum, to provide a suitable corridor for the trail consistent with the master plan's standards element, and will likely be required to construct the segment. This approach has facilitated the development of portions of many trails listed on the master plan over the years, including several major river park segments.

Regional Transportation Authority

The Pima Association of Governments administers RTA funds and in May of 2006 the RTA was given the authority to levy a sales tax increment to help build transportation infrastructure throughout the County. The RTA program included $22.5 million for shared-use pathways and those funds will be used to develop the region's river parks and greenways system.

Transportation Enhancements Grants

The federal government has provided funding through its various transportation programs over the years (ISTEA, TEA-21, and SAFETEA) through a category of funding called Transportation Enhancements (TE). Up to $750,000 is available per project in each cycle of TE grants, which are administered by the Arizona Department of Transportation. The required match for TE projects is very low, presently just five and seven-tenths percent. Other sources of funds may also be available through federal transportation sources, including Safe Routes to School and various safety programs. All of these programs should be used to help implement the Pima Regional Trail System.

Starr Pass Environmental Enhancement Fee (EEF)

The Starr Pass EEF was created as a part of the approval process for the Starr Pass Resort. This fee income comes from a portion of the sales taxes generated by the Starr Pass Resort and will exist for a period of 20 years. For the first ten years of its existence, 75 percent of these funds will go to Starr Pass for various projects; 25 percent will accrue to the Pima County Natural Resources, Parks and Recreation Department for use in the enhancement of Tucson Mountain Park. In the second ten-year period, the distribution will reverse, with 75 percent going to Pima County and 25 percent going to Starr Pass. To date, EEF funds have been used to construct trailhead parking facilities and improve the trail system within Tucson Mountain Park. In the future, EEF funds will be used to construct the trail system within the park's Robles Pass Trails Park unit and may make a large difference over time in the development, re-development, and maintenance of trails at Tucson Mountain Park.

Regional Flood Control District Levy

The Pima County Regional Flood Control District's ability to levy a tax to fund its operations has contributed to the development of the river park system in the past through the installation of critical infrastructure, and could contribute to such development in the future. The RFCD's funding stream, coupled with bond funding, will play a role in the reconfiguration of the confluence between the Rillito, Tanque Verde, and Pantano wash corridors, creating space on the banks for river park to be developed.

U.S. Army Corps of Engineers

In the past, Pima County and the City of Tucson have partnered with the U.S. Army Corps of Engineers (Corps) to construct segments of the river park system at the time bank protection was installed. As bank protection and/or habitat restoration projects continue, the resources of the Corps will be used wherever possible to help develop the river park system.

U.S. Bureau of Reclamation/Central Arizona Water Conservation District

The U.S. Bureau of Reclamation makes funding available for the development of the CAP Trail through its 50-year Recreational Development Agreement with Pima County, which was executed in 1986. The Phoenix-based operator of the canal, the CAWCD, recently created a complementary program to provide funds for recreational development along the CAP. Both of these sources will be used to develop the CAP Trail.

Federal Agency Cost-Share Programs

Federal land management agencies such as the National Park Service and the U.S. Bureau of Land Management operate "Challenge Cost-Share" programs that in the past have provided 50-50 matching funds to assist with the development of projects in their jurisdictions. While these funds have been in scarce supply since 2000, they may become available again in the future, and be made available for trail projects.

Arizona Heritage Fund

Arizona State Parks administers the Arizona Heritage Fund, which provides 50-50 matching grants for the development of trails and parks. The trail grants tend to be on the small side, between $50,000 and $100,000. The river park, greenway, and trail projects included in this plan are eligible for funding through the Heritage Fund's various grant categories, particularly the Trails Heritage Fund.

Land and Water Conservation Fund (LWCF)

Federal LWCF funding has helped construct trail projects in the past. The first segment of the Old Spanish Trail Bicycle and Pedestrian Path was constructed in the 1970s using this funding. LWCF funds, administered through the state of Arizona, have been unavailable for many years, but may become a valuable funding source in the future.

Demonstration Project Dollars

Demonstration project dollars are sometimes available from a variety of federal and state sources, and should be pursued by city and county staff as such opportunities are identified.

General Fund

General fund monies could conceivably be used to develop trails and related features, but receiving general fund dollars for this purpose is a relatively rare occurrence. General funds may be looked to for small projects such as signs or promotional campaigns.

Donations

Donations of all kinds from local businesses, groups, and individuals can be used to help develop the Regional Trail System, and will be pursued as opportunities arise. An excellent example of how donations can help the development of the regional system is the land donation El Paso Natural Gas (EPNG) made to Pima County in 2005. EPNG donated a 1.5-mile corridor, up to 300 feet wide for a total of 33 acres, that will be used to develop the Manzanita Greenway. The donated land had an appraised

value of $300,000. Another corridor donation from EPNG is presently in the works.

Special District

The lack of a consistent stream of funding has been a problem for the development of the Regional Trail System for over 25 years, and is one of the reasons that the river park system has taken so long to materialize. The creation of a special district for the entire trail system could be a mechanism through which these valuable community features could be constructed in real time, and would also provide a source for maintenance.

Volunteer Opportunities

Volunteer organizations are sources of assistance for many city and county trails and parks departments. They are strong supporters of trails, expanding the trail system, and can also offer physical assistance in trail building and maintenance. Ways to use these organizations include trail adoption programs (organizations patrol and maintain a given segments, Adopt-a-Park programs, Eagle Scout projects, and annual county-wide maintenance days (when citizens are called to assist in large-scale clean ups).

Appendices

A-1: Pedestrian Latent Demand Assessment

The data inputs used in the formal Latent Demand Model have been simplified into a more intuitive approach to determine latent demand in an area: The Pedestrian Latent Demand Assessment. The following process can be used to match pedestrian accommodations to an anticipated level of pedestrian activity. The resulting score for an area is equated to specific levels of pedestrian enhancements.

LATENT DEMAND CALCULATION

Characteristic	Variable Within The TAZ	Score
1) Land use mix (residential densities, retail, office, public, quasi-public, industrial, other. Agricultural and inaccessible open space not counted as a land use)	5 or more land uses 2-4 land uses 1 land use Agricultural or inaccessible open space	+3 +2 +1 +0
2) Public schools and universities	4000+ students 1500-3999 students < 1499 students No schools	+3 +2 +1 +0
3) Public facilities (libraries, city hall, community centers, etc.)	3 or more facilities 2 facilities 1 facility No facilities	+3 +2 +1 +0
4) Public parks	Regional park Community park Neighborhood park No parks	+3 +2 +1 +0
5) Unpaved Trails and Paved Pathways	Trails and/or Pathways providing access to regional destinations Trails and/or Pathways providing access to community destinations Trail and/or Pathway providing access to local or neighborhood destinations No Trails or Bikeways present	+3 +2 +1 +0
6) Population density	8+ DU/AC 4-8 DU/AC <4 DU/AC	+3 +2 +0
7) Income level	< $18,600 $18,601 - $42,300 $43,301 or more	+3 +2 +1

LATENT DEMAND CALCULATION

Characteristic	Variable Within The TAZ	Score
8) Age Demographics	Area has many young and/or many older pedestrians Area has typical mix of young and old Area has few young and/or older pedestrians	+3 +2 +0
9) Employment values within PAG's traffic analysis zonal data (jobs per square mile)	4,000 or more 1,500 – 4,000 <1,500	+3 +2 +1
10) Trailheads and Park and Ride lots	>100 parking spaces 50 to 99 parking spaces < 50 parking spaces No trailheads or park and ride lots	+3 +2 +1 +0
11) Bus, train or Modern Streetcar station	Bus, train and Modern Streetcar station Two of three stations One of three stations No stations	+3 +2 +1 +0
12) Modern Streetcar stop	More than one One None	+3 +2 +0
13) Bus stop and/or routes	More than one One None	+3 +2 +0
	TOTAL PROJECT SCORE: maximum score: minimum score:	 39 2

Score of 31-39 = LEVEL 1: Pedestrian District = Highest latent demand = highest potential for pedestrian activity = areas of high intensity with a wide variety of land uses with = downtowns, major university campuses, areas around large regional shopping malls, newly built "town centers"

Score of 23-30 = LEVEL 2: Pedestrian Activity Area = Moderate latent demand = moderate potential for pedestrian activity = high intensity areas with a single or limited mix of land uses =

Score 3-22 = LEVEL 3: Pedestrian Zone of Low Latent Demand = moderate to low potential for pedestrian activity = areas of low to medium intensity with little to no mix of land uses

A-2: Maintenance Standards

Trails are conceptually shown on the Regional Trail System map; however, that does not mean that all these trails are to be maintained by the County. The map serves as a guide to area residents and tourists, showing them the network of trails that are available in the region, regardless of ownership. Trails, for instance, are shown in the state and federal preserves for reference only, and are only as current as the latest information from that entity. The trails of this master plan do not supersede the master planning efforts of any agency.

Maintenance tasks should be prioritized in the following order 1) correct unsafe conditions 2) repair environmental damage and 3) restore system to desired condition.

One of the first steps in trail and path maintenance is design. Plan ahead to minimize them through appropriate design and quality construction. Trails and paths that currently require a high level of maintenance should be evaluated for possible redesign or realignment.

Routine

Routine Inspection

Having a trail system that is clean and well kept will encourage people to use it. Routine inspection is integral to this effort. Inspections should include the trail/path surface, drainage crossings, site furnishings, signs, and vegetation. Also, all inspections should be documented (date, location, condition, work needed). Maintaining a schedule for the items listed below is key to keeping the trail system clean and safe. Every major problem on a trail was once a small problem that went unnoticed, so a thorough inspection is time and money well spent.

Sweeping and Debris Removal

Keeping paths swept of debris is critical for roller bladers, bicyclists, and users with physical challenges. Paths should be cleared of all debris including sand, mud, and leaf litter. Long distances can be swept by machine. Spot sweeping may be more efficiently done by hand or with blowers. If there is a large amount of debris, it should be collected and removed from the area. Large amounts of storm-deposited mud and silt may temporarily close paths and trails. Clearing away these deposits in a timely manner is important to maintaining the connectivity of the system.

Trash Removal

Clean up of litter along the trail system and emptying of trash receptacles is both a safety and aesthetic issue. Frequency of clean up will depend on trail use and location.

Tree and Brush Trimming

Pruning is performed for safety concerns. Keeping the paths and trails clear of overhanging or intruding branches will prevent user injury. Note any vegetation that needs to be replaced.

Graffiti Removal

Graffiti left unattended encourages more graffiti. Graffiti should be documented, reported to local authorities, and removed immediately.

Drainage Structure Clean Out

Drainage structures can become clogged with trash and debris with can cause flooding or undercutting of nearby paths and trails. If a culvert needs to be unclogged frequently, then it may need to be replaced.

Periodic or As-Needed

Repairs to Signs, Site Furnishings, and Vegetation

Amenities need to be kept in aesthetically pleasing condition. If they become damaged or appear in disrepair, they can become a target for vandalism. Repairs to trail signs that impact user safety should be considered first in importance. Vegetation areas that have been damaged should be revegetated to minimize erosion.

Path and Trail Repairs

Repairing damaged trails quickly will prevent greater damage from occurring and helps extend the life of the trail. Timing of trail and path repairs will depend on the needed repair. If they impact user safety, repairs should be made as soon as physically possible, depending on whether they can be made by the maintenance crews or need to be completed by an outside entity.

- Repair concrete cracks with joint sealer as soon as possible to prevent further moisture from penetrating.
- If a concrete section heaves or cracks extensively, break out and repour the section.
- Seal asphalt cracks as soon as possible to prevent moisture from reaching the base course.
- If the surface of asphalt paths looks dry or ravels, the path is overdue for a seal coat. Seal coating should occur before raveling begins.

Trail Closures

At times, trail sections may need to be closed due to hazardous conditions. Causes could include when heavy rains cause trail washouts or a landslide blocks the use of the trail. Non-trail construction near a trail could also force trail closure because of safety concerns. Any condition

which causes a trail closure should be corrected as soon as possible and the trail reopened to the public.

When trails need to be closed due to trail improvements, signs should be posted several days in advance of the closure, informing trail users of the closure dates and an alternate route, if available. Confirm if right-of-entry permits are needed to complete trail improvements and obtain as needed.

Social Trails

If unplanned and unofficial social trails appear, first consider whether the public is voting with their feet. Before closing the trail, consider whether it might legitimate and should be included as a trail improvement.

Prioritize

Prioritize trail maintenance based on 1) safety reasons 2) repairs to environmental damage, and 3) repair to desired conditions.

INSPECTION SCHEDULE

Activity	Frequency
ROUTINE INSPECTION	
Sweeping	Every three weeks. If sediment collection occurs frequently, determine the source of the sediment and what solution can prevent it from continually occurring.
Empty trash receptacles	Every week
Litter cleanup	Every four weeks
Tree and brush trimming along urban trails	Every three months
Graffiti removal and vandalism repair	As needed
Drainage structure clean out	As needed; check after storms
PERIODIC INSPECTION	
Repairs to signs, site furnishings, and vegetation	As needed
Structure inspection	Inspect all structures (walls, bridges, drainage crossings, railings, signs) for damage. Repair any damage the compromises the functionality or aesthetics of the structure or any minor damages that will become worse if not repaired now.
Trail repair	As needed (full replacement every ten years)

INSPECTION SCHEDULE	
Activity	**Frequency**
Tree and brush trimming along singletrack trails	As needed
Path repair	As needed (full replacement every ten years for asphalt, every 20 years for concrete)
Erosion	Look for erosion occurring along the edges of the path and determine what solution (rip rap, vegetation) will minimize damage.
Social Trails	Note where they are occurring and determine if they should be posted as 'No Entry'

Operations

Each jurisdiction must define how they handle operations, but listed below are some items related to trails and paths for consideration.

- Work with local safety officers to establish regular procedures for closing underpasses or wash crossings during storms.
- If paths or trails must be closed long term for repairs, rebuilding, or for construction of adjacent properties, provide an alternate route.
- Speed limits and use restrictions should be made by individual jurisdictions on a case-be-case basis. Scenarios could include areas of steep terrain, high-density adjacent development, or where paths are being dominated by one user group in an unsafe manner. Signs restricting speed or use should be used judiciously and with consideration for adjacent jurisdictions.

Stewardship

Trail Promotion

Consider promoting the opening of each new trail or path segment or new trail head or trail park. Publicize an on-site dedication and invite the press to run a story describing the new element. This effort will help to reinforce to the public that these opportunities are available and are open to the public.

User Feedback

Comments should be collected from the public where possible. Opportunities are suggestion boxes at trail heads and trail parks, through a survey link on the County's Web site, and at public gatherings where similar topics are being discussed. The comments should be reviewed for issues, success, failures, possible improvements, and user satisfaction. The comments should be considered a learning tool, not a criticism of work done poorly.

A-3: City of Tucson List of Bicycle Boulevard Projects

Reference #	Plan Status	Project Name	Location		Description	Length (mi)
1bb	New	Fairview/15th Ave (Collector)	Speedway Blvd	Tucson Mall	Enhanced Urban Corridor Improvements	5
2bb	New	Timrod /14th St/Williams	Ried Park	Park Place Mall	Bike Blvd Improvements	2.7
3bb	New	Liberty / Missiondale	Cushing	Los Reales	Bike Blvd Improvements	7
4bb	Funded	Fontana/4th Ave	Prince	University Blvd	Bike Blvd Improvements	3
5bb	New	Park	Ft. Lowell	Aviation	Bike Blvd Improvements	2.8
6bb	New	Warren	Grant	Speedway	Bike Blvd Improvements	1
7bb	New	Plummer	Aviation	Elm	Bike Blvd Improvements	2
8bb	New	Cherrybell / Campbell	18th St	El Paso Greenway	Bike Blvd Improvements	2
9bb	New	Euclid Ave	18th St	El Paso Greenway	Bike Blvd Improvements	2
10bb	New	Treat/Cactus/Christmas	Aviation	Rillito	Bike Blvd Improvements	5
11bb	New	Camino Miramonte/Howard Ave/Palo Verde	Arroyo Chico Bikeway	Ft. Lowell	Bike Blvd Improvements	4
12bb	New	Palo Verde	Aviation	22nd St	Bike Blvd Improvements	2.2
13bb	New	Dodge	El Con Mall	Rillito	Bike Blvd Improvements	3
14bb	New	Irving	3rd Street	22nd St	Bike Blvd Improvements	3
15bb	New	Columbus	29th St	Rillito	Bike Blvd Improvements	5
16bb	New	Desert/Calalina/Goyette	Glenn	22nd St	Bike Blvd Improvements	3.5
17bb	New	Arcadia	Grant	Arroyo Chico Bikeway	Bike Blvd Improvements	2.6
18bb	New	Beverly/Wyatt	Aviation	Glenn	Bike Blvd Improvements	5.4
19bb	New	Sahuara	Aviation	Glenn	Bike Blvd Improvements	4
20bb	New	Jessica/Mann/Sirio	Stella	Carondelet	Bike Blvd Improvements	3.5
21bb	New	Prudence (Collector)	Escalante	Broadway	Enhanced Urban Corridor Improvements	3.2
22bb	New	Sarnoff /29th St	Speedway Blvd	Old Spanish Trail	Bike Blvd Improvements	4
23bb	New	Roger (Collector)	La Cholla	Tucson Blvd	Enhanced Urban Corridor Improvements	4.5
24bb	New	Blacklidge	Oracle	Columbus	Bike Blvd Improvements	4.5
25bb	New	Glenn (Collector)	Fairview	Sahuara	Enhanced Urban Corridor Improvements	6
26bb	New	Jacinto/Copper/Flower	Fairview	Swan	Bike Blvd Improvements	5.7
27bb	New	Seneca/Waverly	Wilmot	4th Ave	Bike Blvd Improvements	7
28bb	New	Lester/Elm/Pima	Wilmot	15th Ave	Bike Blvd Improvements	6
29bb	New	Drachman/Fairmount	Wilmot	Oracle Rd	Bike Blvd Improvements	7.2
30bb	New	Univ (Collector)/3rd St/Rosewood	Main	Wilmot	Bike Blvd Improvements/ Enhanced Urban Corridor	7
31bb	New	5th St / Vicksburg / 7th St	Pantano	Houghton	Bike Blvd Improvements	3
32bb	New	Alameda / El Rio / Dragoon	Grant / Greasewood	Santa Cruz River Path	Bike Blvd Improvements	3.5
33bb	New	9th St/8th St	4th Ave	Country Club	Bike Blvd Improvements	2.1
34bb	New	Arroyo Chico Bikeway/Kenyon	Aviation	Harrison	Bike Blvd Improvements	9
35bb	New	18th St	Santa Cruz River Path	Cherrybell	Bike Blvd Improvements	2
36bb	New	27th St/Sylvain	Bristol	Ave. Sirio	Bike Blvd Improvements	4
37bb	New	33rd St/Calle Marte/29th	Sahuara	Old Spanish Trail	Bike Blvd Improvements	6.2
38bb	New	Stella / Emily	Aviation Bikeway at Wilmot	Houghton	Bike Blvd Improvements	5
39bb	New	Michigan	Benson Hwy	Santa Cruz River Path	Bike Blvd Improvements	2.2
40bb	New	Bilby / Bonney	Santa Clara	Benson Hwy	Bike Blvd Improvements	4
41bb	New	9th Ave	Ft. Lowell	Franklin	Bike Blvd Improvements	3
42bb	New					
43bb	New	Plummer	Elm	Aviation Bikeway	Bike Blvd Improvements	2
44bb	New	S. 4th Avenue	Broadway	I-10	Bike Blvd Improvements	2
45bb	New	Santa Clara / 15th and 16th Ave	Los Reales	44th St	Bike Blvd Improvements	4.5
46bb	New	Prudence/Grady/Pio Decimo	Tanque Verde Wash	Pantano Wash	Bike Blvd Improvements	2.7
47bb	New	Fairland Stravenue	Cherrybell	Kino Sports Complex	Bike Blvd Improvements	1.7
						180.7

Contact the City of Tucson Dept. of Transportation Bicycle & Pedestrian Program Manager for additional information.

A-4: Document Review

Fantasy Island

This 335-acre site is near the intersection of Irvington and Houghton roads within the City of Tucson, specifically within the urban core boundaries. One of the challenges with this site is its location in one of Tucson's fastest growing real estate markets, which may lead the State Land Department to bring to public auction the Trust Land portion of the site. The Community has played a strong role in voicing their concern for the loss of this recreation area. As part of the HAMP plan, this area was unanimously adopted as a protected recreation site. It has evolved into a popular mountain bike 'trails park' used by racers, law enforcement for training, and manufacturers for testing.

Conclusion: urban 'trail parks' are popular and viable

City of Tucson Houghton Area Master Plan (HAMP)

The HAMP area encompasses 10,800 acres (16.9 sq. miles) of land along Houghton Road, which falls within the very eastern portion of the urban core area. One of the values that this plan supports is a transportation and circulation system that offers residents alternatives for mobility, giving high priority to pedestrian, bicycle, and transit modes. The plan is also intended to serve as a regional open space system.

Conclusion: the new area master plans are recognizing the importance of regional trails and connectivity

City of Tucson Parks & Recreation Ten-Year Strategic Service Plan

Within this plan, strategic directions were identified in the final phase. One of the directions that was recognized was the importance of connectivity between parks, open space, and recreational facilities. This goal supports the need to develop a pathway and trail system that links City and County parks, consistent with the goal of the Eastern Pima County Trails Master Plan (Master Plan). One policy identified in connection with this goal included providing easy access to community assets and connection of parks, facilities, and natural resource areas. An urban pathway element was also developed to provide a framework to continue building an interconnected system of urban trails, greenways, and open spaces. A trail classification system is included in this document to depict the diversity and character of Tucson trails, including various types and configurations of urban paths and trails.

Conclusion: use this plan to build on for the Master Plan

City of Tucson Urban Landscape Management Plan

As part of this plan, a year-long Livable Tucson Visioning Program was initiated. One of the goals of this program was to "ease traffic

congestion" through the expansion of community members using alternative transportation methods.

Another principle put forth in this document is the importance of sustainability and the role of preserving natural washes and other open spaces as well as the prevention and mitigation of urban heat island effects. Both of these principles are consistent with the goals of this plan.

Finally, this plan puts forth the value of green infrastructure, defined as an interconnected network of green space that conserves natural ecosystem values and functions and provides associated benefits to human populations.

Conclusion: the goals of this plan are consistent with the Master Plan

Oro Valley Task Force (2002)

The purpose of the report is to accelerate the Town of Oro Valley's Trail System. In 1994, the Town of Oro Valley adopted the same trails identified in the Eastern Pima County Trail System Master Plan (the current version at the time) as part of the Town of Oro Valley's POST Master Plan.

This report examines the various trails located in Oro Valley including-protected (public access is legally secured), high opportunity trails (controlled by few private landowners or the property is a potential candidate for re-zoning), and low opportunity trails (controlled by many private land owners or the property is a potential candidate for re-zoning). Under each trail, the report lists the problems, recommendations, uses, public access entry points, trail design guidelines, and funding sources. The report recognizes that there are important linkages to the Town's trail system that are in the County's jurisdiction and goes on to describe implementation methods for acquiring trail access on private land.

KEY INFORMATION

- Most of Oro Valley's proposed trail systems are located along secured corridors or land with development restrictions.
- 52 percent of the Town's trail system crosses private property.
- Property owners need a clear understanding of who will be responsible for the liability and maintenance of trails intended for public use.
- 36 percent of Oro Valley's trail system is protected.
- They plan to consult with Pima County twice a year to secure trail corridors linking with Oro Valley's trail system.
- As of 2002, there were three existing public trailheads and two additional trailheads recommended.

Conclusion: Oro Valley works with the County to connect trails into a network

Pima-Tucson Trails: The Next Five Years (1992)
The purpose of this report is to recommend a focus for trail development for the next five years and develop a plan for implementation.

Create a 35-mile trail loop in the Tucson metropolitan region, called Los Rios Loop, along rivers and urban washes, linking together the river parks, downtown Tucson, and many neighborhoods and community parks.

- Interim River Trails
  - Pima County has developed river parks as mitigation for flood control projects and will continue to construct new segments over the next 15 years.
  - Can be built in the meantime, at lower cost to connect existing river parks and provide over 20 miles of continuous trails.
- Arroyo Chico Linear Park
  - A trail and linear park connecting with Pantano Wash and Santa Cruz River Park was proposed within the plan to help with connectivity.
- Rodeo Wash Park
  - Rodeo Wash is a prime opportunity for a trail corridor in southwest Tucson.
- El Camino Central
  - An enhanced pedestrian and bicycle route connecting the Santa Cruz River Park, the Tucson Convention Center, and historic El Hoyo Barrio is another step toward downtown revitalization.

Protect public access to trails within Coronado National Forest and Saguaro National Monument by establishing three new public staging areas:

- Pima Canyon into Coronado National Forest
- Camino del Cerro into Saguaro National Monument
- Agua Caliente County Park into Coronado National Forest

Trail Development Strategies – describes steps which can be taken in the near future to promote coordination among the various agencies and organizations with an interest in trails. In addition, Pima County and the City of Tucson will continue to negotiate with private property developers to develop trails identified in the adopted trail plans.

Conclusion: many of the projects have been implemented

Pinal County Trails Plan (2005)

The purpose of the plan is to facilitate a planning framework to create a countywide system of non-motorized trails and a system of motorized trails.

Encourage coordination and cooperation among adjacent counties, agencies, tribal governments, municipalities, and the public in trail planning and development.

- Collaborate to provide public trail links to regional trail systems.
- Coordinate with public agencies and private developers to ensure public trail connections and access points are planned, constructed, and maintained.
- Identify proposed corridors and/or segments needed to link communities within Pinal County.

The foundation of the plan is built around three primary regional corridors:

- The Arizona Trail
- The Central Arizona Project (CAP) canal corridor
- Juan Bautista de Anza Historic Trail

KEY INFORMATION

Arizona State Parks, in partnership with ASU, conducted an extensive research and public involvement process and came up with the following findings:

- Approximately two-thirds of Arizona residents consider themselves trail users.
- 63 percent of respondents participated in non-motorized trail use at some point during their time in Arizona.
- 24 percent of respondents participated in motorized trail use at some point during their time in Arizona.
- Declining public access to trail opportunities is a priority of concern of Arizona's trail users.
- Trail support facilities (trailheads, restrooms, etc) are important to both non-motorized and motorized users.

Trail Liability

- Arizona has enacted laws that limit both private and municipal landowner, liabilities (Arizona Revised Statutes). On the private side, these laws are called Recreational Use Statutes.

Conclusion: many of the projects have been implemented

Rincon Valley/Southeast Subregional Plan (2004)

As part of the City of Tucson's General Plan, subregional plans were developed to establish future land use and development direction for areas that are adjacent to the City and have potential for future City annexation.

- The Rincon/Southeast Subregion covers approximately 400 square miles, the majority of which is rural and sparsely populated.
- The topography and natural resources of the area vary greatly.
- The Rincon Southeast Subregional Plan is intended to guide future development in the subregion so that environmental quality, scenic resources, and community character are protected and enhanced.

Regional Trail System

Regional trail system policies are intended to support the implementation of a public trails network, as identified in Eastern Pima County Trail System Master Plan (Master Plan) and shown on the City of Tucson Parks, Recreation, Open Space and Trails (PROST) System Conceptual Map. Examples of high priority trail system elements include, but are not limited to, primary trails identified in the Master Plan, trail corridors that link individual public lands units, connect public lands with existing or planned river parks, create local trail linkages to parks, schools, or activity centers, or provide public access to established public lands trails. The regional network will expand on the existing and planned river park system to include natural tributary washes and upland segments, and road and utility rights-of-way that together will form an interconnected system linking urbanized areas with surrounding public preserves.

Policies

a. As determined by the Department of Parks and Recreation, dedication of particular trail system elements shall be required as a condition of rezoning approval and shown on the development plan or plat.

b. Regulatory flood prone areas which are dedicated as drainage easements to the City of Tucson or Pima County Flood Control District and which are identified as trails on the Master Plan or PROST shall also allow additional uses, such as recreational and equestrian activities, in the dedicated right-of-way or easement. Such allowable additional uses shall be designated on the development plan or plat as part of a master circulation plan.

c. Any fencing of or along an existing or proposed trail corridor shall meet the specifications of the Department of Parks and Recreation and said specifications shall be included as a condition of rezoning or planned area development approval.

d. Vehicular access to trailheads at public preserve boundaries shall be promoted based on a determination by the public lands manager and the Department of Parks and Recreation. In those cases where road access to public lands trailheads is deemed critical, dedication of public roads rights-of-way and associated parking and equestrian staging areas shall be required as a condition of rezoning or planned area development approval.

e. Trails and paths within the project site shall connect with the regional trail system to provide access to open space and recreational opportunities for community residents.

f. If the project site contains a route identified on the Master Plan or PROST that provides irreplaceable access to a public preserve boundary, public access through the site shall be provided.

Conclusion: the goals of this plan are consistent with the Master Plan

Rincon Valley Subregional Trails Plan (1998)

This plan is a subregional elaboration of the Eastern Pima County Trail System Master Plan (1989) and represents collective efforts to create a network of recreational trails in the Rincon Valley (approximately twenty miles east of Tucson and south of the Rincon Mountains). The proposed trail system will consist of 21 trails totaling more than 100 miles in length. When fully implemented, this trail system will provide trail access throughout the Rincon Valley and link Saguaro National Park, the Coronado National Forest, Colossal Cave Mountain Park, the Cienega Creek Natural Preserve, and the Pantano River Park.

The following are the recommendations for the creation of a trail system in the Rincon Valley:

- Identify significant trail corridors, linkages, and access points
- Recognize sensitive resources
- Suggest potential uses suitable for each trail corridor
- Propose an Arizona Trail alignment west of the Rincon Mountains
- Identify environmental education and interpretive themes and opportunities
- Examine costs for trail construction and maintenance
- Trail System
- Shared-use is recommended on most trails to accommodate hikers, bicyclists, and equestrians.
- It is recommended that all trails be natural-surface trails.

- The trails in the plan will not be open to motorized use.

Conclusion: the goals of this plan are consistent with the Master Plan

The El Paso & Southwestern Greenway Concept Plan

The purpose of this report is to aid in the planning and design of an urban greenway along the abandoned El Paso and Southwestern Railroad corridor. It is purely conceptual in nature and intended to generate ideas and provide guidance as the greenway master plan continues to evolve. The planning process was inevitably linked with the City of Tucson and Rio Nuevo, Pima County, the City of South Tucson, and various neighborhood groups.

Six goals arose out of the design philosophies and served to guide the development of the project:

1) coordinate with other active projects to ensure compatibility
2) promote connectivity and recreation
3) reflect regional and local identity and character
4) celebrate local history
5) provide physical comfort and safety
6) provide a catalyst for positive development

Specific design recommendation guidelines were established to direct future planning surrounding the greenway:

1) Alignment/route

- Follow historic alignment where possible
- Provide alternate routes where historic alignment is difficult

2) Preservation

- Preserve historic tracks where possible
- Plan for a future streetcar corridor where appropriate

3) Trail

- Provide an uninterrupted multi-use path where possible
- Street and rail crossings
- Separate path from road where possible
- Separate pedestrians from bicycles
- Let path double as a vehicular access road to potentially satisfy HURF requirements

4) Comfort

- Safe and convenient street crossings

- Amenities adjacent to path
- Full accessibility for the disabled

5) Development
- Be flexible about greenway width depending on circumstances
- Integrate greenway goals into other projects
- Maximize development opportunities along greenway

6) Access and Connectivity
- Maximize neighborhood access to the greenway
- Maximize connectivity to other paths and destinations

Conclusion: the goals of this plan are consistent with the Master Plan

Growth and Development in Southeast Tucson (2004)

The "Southlands" area of the Tucson metropolitan area is located both within the City limits and also within unincorporated Pima County. The Southlands area has been subject to increasing growth and development pressure. The City would like to manage this trend in a manner that will support the long-term planning of the region. The State of Arizona, through its Land Department, is a key partner in this effort.

KEY INFORMATION
- The Southlands area contains 1,083 square miles; 868 are vacant. State Trust Lands constitute 418 square miles of this vacant land.
- The area currently contains over 50,000 residents, a 282 percent increase since 1980.
- The population of the area is projected to reach 250,000 residents by the year 2030.
- Most of the Southlands area within the City has been annexed since 1980.
- The need to plan effectively for the Southlands area is identified in the City's General Plan. An important statement:
  - Expand the regional trail system and connect it with the Pima County system.
- In response to the increased growth in the Southlands area, there are a number of planning processes underway including: Houghton Area Master Plan; Davis Monthan Air Force Base Joint Land Use Study; transportation plans for Sahuarita Road, Houghton Road, and I-10; and the Sonoran Desert Conservation Plan.
- Major developers are planning private projects in the Southlands area.
- While much of the land in the area is vacant State Trust land, planning must occur now in order to ensure effective growth management.

The Southlands area presents the opportunity to work with one major land owner, the State, to master plan the majority of this area.

Conclusion: the Southlands is almost a blank slate with the opportunity to incorporate a trails network into new developments

U.S. Army Corps of Engineers plans – Tres Rios del Norte (TRDN) (2006)

This study effort is a joint partnership between Pima County, the City of Tucson, the Town of Marana, and the Corps of Engineers, Los Angeles District. The TRDN study area is comprised of a 2- to 3-mile-wide corridor that extends along an 18-mile-long reach of the Santa Cruz River, from Prince Road to Sanders Road. It has a total land area of 19,800 acres (30.9 square miles). It is situated in the northwestern portion of the Tucson metropolitan area, and includes portions of the City of Tucson, the Town of Marana, and unincorporated Pima County. Within the study area, the Santa Cruz River has confluences with two major tributaries, the Rillito River and the Cañada del Oro.

- The primary problem and focus of much of the efforts discussed in the report relates to the severe degradation and loss of riparian habitat along the Santa Cruz River.

Continued population growth in and around the TRDN study area has lead to an increased demand for recreation that includes trails for hiking, biking, and jogging. Recreational opportunities in the TRDN study area are likely to expand as new parks are designed and implemented. New recreational development, such as new parks, will be consistent with local recreation master planning efforts. The opportunity exists to provide passive recreational opportunities that extend throughout the TRDN study area in conjunction with the ecosystem restoration and water supply purposes. In addition, there is an opportunity to connect recreation features within TRDN with the larger regional trail and river park system.

Baseline Conditions

There are numerous watercourses that drain into the Santa Cruz River. These range from the large tributaries of Cañada del Oro Wash and the Rillito River to smaller washes that convey flows from the Tucson Mountains and from the Tortolita Mountains. Historically these washes have provided important pedestrian, equestrian, and wildlife routes to and from the Santa Cruz River from adjacent areas

Trails and washes that are important links of the Pima County Trails Master Plan and fall within the study area include the following:

- Primary Trails: Greasewood Loop, Trails End Wash, Sweetwater Wash, Belmont Road, Wildhorse Wash, Picture Rocks Wash, Wild

Burro Wash, Gas Pipeline, Roger Wash, Idle Hour Wash, Yuma Mine Trail, Silverbell Road, Juan Bautista de Anza National Historic Trail, and CAP Canal Line.

- Secondary Trails: Joplin Lane/Cortaro Farms Road and El Camino de Mañana Wash.
- One of the primary regional trails, the CAP Canal Line Trail (currently being developed), connects with the Wild Burro Wash Trail near Tangerine Road and, when complete, would link Tucson Mountain Park with Tortolita Mountain Park.

Recommended Plan

- Ecosystem Restoration Component
- Flood Damage Reduction Component
- Water Supply Component
- Recreation
  - Marana District Park – located in the vicinity of the Tucson Ready Mix Pit, near the confluence of the Santa Cruz River and Cañada del Oro Wash
  - Pedestrian trailheads – eight pedestrian trailheads
    - Each pedestrian trailhead includes parking stalls, access road for trail maintenance, area lighting, restroom, drinking fountain, and a bike rack
  - Equestrian trailheads – four equestrian trailheads
    - Each equestrian trailhead is configured to accommodate access and parking for vehicles pulling horse trailers
    - Additional trailhead features include a water trough, picnic ramada, picnic tables, drinking fountain, restroom, bike rack, and area lighting
  - Interpretive signage – at 11 locations
    - 2-foot by 3-foot plaques set on National Park Service style post
  - Recreation crossings
    - Includes prefabricated bridge crossings and a soil cement underpass ramp added to existing bank protection at Ina Road.
  - The total first cost of the recreation component of the combined plan is currently estimated at $13,893,000 million under October 2005 prices.
    - Recreation will be implemented along with the restoration plan.
    - Cost sharing of the recreation elements will be 50 percent Federal and 50 percent non-Federal.

Conclusion: the goals of this plan are consistent with the Master Plan

U.S. Army Corps of Engineers plans – Santa Cruz River, Paseo de las Iglesias Final Feasibility Report (2006)

The U.S. Army Corps of Engineers (Corps) is conducting a feasibility study in the Paseo de las Iglesias reach of the Santa Cruz River to identify, define, and solve environmental degradation, flooding, and related water resource problems. These efforts are proceeding in partnership with the Pima County Flood Control District, the non-Federal sponsor.

The Paseo de las Iglesias Study Area consists of a segment of the Santa Cruz River and its tributaries, including the Old and New West Branch, extending downstream from Los Reales Road to Congress Street in the City of Tucson, Pima County, Arizona. The study area boundary encompasses an area approximately 7 miles long varying from 0.5 to 1.6 miles wide, and contains approximately 5,005 acres.

- The Selected Plan is an ecosystem restoration project that also provides recreation benefits.

Base Year Conditions

- In addition to the planned park expansions, future river parks are planned in other parts of the Tucson metropolitan area for Tanque Verde Creek and Pantano Wash.
- Together the Santa Cruz, Rillito, Tanque Verde Creek, and Pantano Wash river parks will function as one large unified regional trail system.
- In the 1997 bond election, funding was approved for the Santa Cruz River Community Park (a sports field complex) along the east bank of the Santa Cruz River, north of Ajo Way.

Recreation Demand

- Carrying Capacity
  - Pima County has experienced rapid population growth.
  - Pima County's MSA population is 843,746 at year 2000 and is expected to reach 1,518,000 by year 2025—a difference of 674,254 over 25 years. With this increase in population comes an increased demand for recreational facilities.
- Accessibility
  - According to 43 percent of the Arizona Trails 2000 survey respondents, loss of access to trails is one of the top three most important issues facing trail users today.

Description of Recommended Plan – The Selected Plan is an ecosystem restoration project that also provides recreation benefits.

- Recreation
  - The Recreation Plan proposed in conjunction with the recommended restoration plan consists of decomposed granite multi-purpose trails, parking, and trail links that serve a recreation purpose by connecting existing unlinked trail segments and providing opportunities to a variety of recreational users.
  - Comfort stations will serve the basic safety needs of the recreational user.
  - All road segments designated as maintenance provide access to areas in case of emergencies such as flooding and fire.
  - Access will also provide a means to maintain vegetation in the newly restored area and park facilities. Warning signs are also added to direct pedestrians off the newly restored area and guide pedestrians away from any potential danger. These changes will provide a unique opportunity for resource-based recreation and environmental education. Trail alignments and parking locations are shown on Figure 6.2. Placement of comfort stations will be determined during detailed design.

Plan Implementation

This chapter summarizes the cost-sharing requirements and procedures necessary to implement the restoration features of the selected plan.

Conclusion: the goals of this plan are consistent with the Master Plan

Town of Marana Transportation Plan (from the 2003 General Plan)

Numerous bicycle and pedestrian facilities have been identified and are planned for implementation over the next 25 years. It is hoped that this planning effort will provide guidance and set the tone for the implementation of effective bicycle and pedestrian facilities and programs as the Town continues to grow. Some of the goals and recommendations for the Town's Transportation Plan that relate to bicycle and pedestrians include:

- Dedicate more local state federal and private funding to construction and maintenance of bicycle and pedestrian facilities. Continue with funding proposals to obtain federal Transportation Enhancement funds for bicycle and pedestrian facilities.
- Establish a program to implement facilities over the near term.
- Require that on-street bicycle lanes, multi-use lanes or paved shoulder are included on all new or reconstructed arterial and collector roadways including those funded by private developers. Require bicycle lanes be provided when left-turn or right-turn lanes are constructed at developments.

- Ensure land use planning accounts for bicycle and pedestrian circulation and safety and requires connectivity from subdivisions.
- Review and provide incentives for mixed use developments, infill projects, and residential commercial educational and cultural nodes that naturally promote bicycling and walking due to their proximity of uses.
- Utilize new 1999 AASHTO and 2000 MUTCD standards in the design of bicycle facilities. Utilize AASHTO standards in the design of pedestrian facilities when they become available.

Conclusion: towns in the area are planning trails within a regional framework

Green Valley Community Plan

The major recreation sponsor for this community is Green Valley Recreation (GVR) with its centers distributed throughout the community. It supports fitness and sports activities plus various games, clubs, tours, social, musical and theater/movie programs. These facilities are only available to GVR members and their out of town guests. Some Homeowner Associations have their own exclusive facilities in place of or in addition to GVR.

There are eight golf courses and a private fitness center within the community, and nearby a bowling alley, miniature golf, and batting cage facility. Green Valley has many multi-use lanes throughout the community used for recreation by bicyclists. Anamax Park in Sahuarita provides recreational facilities used by Green Valley residents.

In addition to the clubs sponsored through Green Valley Recreation, there are a number of independent clubs within the community, including service organizations, common interests and hobbies as well as sporting activities. Hiking Madera Canyon and the Santa Rita Mountains and the visitor's center at the Whipple Observatory on Mount Hopkins are a few of the major neighboring attractions. The historic Juan Bautista de Anza trail offers opportunities for hiking and riding along the Santa Cruz River. Once the trail is completed by Pima County it will link to portions in Sahuarita and Canoa Ranch."

Conclusion: towns in the area are planning trails within a regional framework

Sahuarita 2002 General Plan, Recreation, and Open Space Element

"Town residents during the first two public workshops raised a number of ideas about meeting their recreational needs. Among them were a trail network (walking, biking and equestrian). Safety was a key concern in terms of non-vehicular access to parks and trail development. Connections

to publicly accessible open space were deemed very important as well. Finally, the open space system that is created by the Town should be integrated regionally to the extent possible. Coordination, primarily with Pima County, will be paramount."

Objective: Expand opportunities for recreational bicycling, pedestrian and equestrian uses.

Policies:

REC-1.7.1: Utilize the open space provided by the Santa Cruz River and tributary drainages as a basis for mixed-use and, if determined necessary, specialized use trails. The trail system should ideally link as safely as possible to the pathway system for pedestrians, the street system for bicycles, and rural, larger lot areas for equestrian access.

REC-1.7.2: Inventory all existing neighborhood trails, sidewalks, and bike paths and identify the feasibility of connecting these features together. Develop a system based on that feasibility.

REC-1.7.3: Develop a design standard for new subdivisions and development plans to include recreational trails, and, where feasible, requiring dedication and interconnectivity with the system developed under Policy 1.7.2.

REC-1.7.4: Plan the pathway network to link existing and future parks, as well as recreational open space.

Conclusion: towns in the area are planning trails within a regional framework

Sahuarita 2008 Parks, Recreation, Trails, and Open Space Master Plan

One of the goals of the Master Plan is:

Goal #8 - To provide greenways and trails which link parks, commercial and residential areas.

REC 1.5.4 uses Santa Cruz floodplain for recreation both passive/active uses

REC 1.7 opportunities for bicycles, pedestrians and equestrians

It is recommended that:

- The Department work with Pima County to complete a Trail Master Plan.
- The Pima County Trail Plan and the Sahuarita Town Trail Plan be connected to a strong spine along the Santa Cruz River which connects some existing parks, the new district park, the new regional

parks, residential and commercial areas and the Town Center to the system.

- The Departments of Parks and Recreation and Planning and Zoning work to encourage developers to build the trail spine.

The Master Plan reviews the current status of the town's greenways and trails and notes:

There are currently 5 miles of pathways and 15 miles of bike lanes in the Town of Sahuarita's proposed trail system, which includes a Pedestrian and Bicycle Plan. The Pedestrian Plan is a system of multi-use trails that links communities to parks, schools and the Santa Cruz River by using existing and proposed roadways, easements and open space. The Bicycle Plan consists of bike paths and bike lanes that follow major roadways from community centers to the town center, the Santa Cruz River and other destinations.

The Master Plan proposes:

A central greenway along both sides of the Santa Cruz River would provide a connection to proposed Town and County trails, create recreation opportunities, prevent future development in the flood plain and provide essential habitat corridors to nearby riparian areas.

Additional greenways and trails would link the Santa Cruz Greenway to existing and future town parks.

Recommendation #4 of the Parks, Greenways, Trails and Standards section states:

The recommendation is to develop a Greenway and Trail Master Plan in conjunction with Pima County. The master plan will connect the Pima County Trail Plan and the Sahuarita Town Trail Plan to a strong spine along the Santa Cruz River which connects some existing parks, the new district park, the new regional parks, residential and commercial areas and the Town Center to the system.

Conclusion: the Town is proposing to increase the number of trail facilities and is working with the regional trail framework

A-5: Pima County Projects List

TRAILS	
	Project
	Anza Trail
☐	Implement the Anza Trail consistent with the recommendations of the adopted Anza Trail Master Plan and guidelines for the Anza Trail from the National Park Service.
☐	Integrate the Anza Trail into any new master plan prepared for the Santa Cruz River Park.
☐	Integrate the Anza Trail as per the Anza Trail Master Plan into all new segments of the Santa Cruz River Park constructed by local, state, or federal governments, or as a part of a commercial or residential development project.
	CAP Trail
☐	Implement the CAP Trail in cooperation with the U.S. Bureau of Reclamation consistent with the *CAP Trail Master Plan*.
☐	Support the location of the trail on top of the dike. Consult the CAWCD Board if needed to secure the proper site.
☐	Support the development of a land bridge over Interstate 10 in the Tangerine Road area to place trail over the freeway.
☐	Support the creation of complementary trails and/or actual trails parks in the "green up" areas along the CAP corridor.
	Arizona Trail
☐	Support setbacks of 350 feet from new developments north and south of Interstate 10. Require development projects to enhance the vegetation in this corridor to secure adequate buffers.
☐	Support the protection of the Highway 83 Scenic Gateway and the quality of the Arizona Trail National Scenic Trail.
	Tucson Mountain Park
☐	Revise and enhance the trail system in accordance with the Park's *2008 Management Plan*.
☐	Obtain the 1,052-acre BLM disposal property along the southern boundary of the Park to create new recreational opportunities and the provision of at least two public access points into the park.
	Tortolita Mountain Park
☐	Develop a formal trail system in the park, consistent with the *Tortolita Mountain Park Trails Master Plan*.
☐	Establish public access points in several locations around the perimeter of the park, consistent with the Tortolita Mountain Park Master Plan and the Tortolita Mountain Park Trails Master Plan. One such access point is a new trailhead on the east side of the Park in the Crow Wash area.
	Colossal Cave Mountain Park
☐	Create new public trailhead facilities just outside the Park's main gate immediately east of Old Spanish Trail, and just outside the Park's south gate, immediately south of Colossal Cave Road. The north gate will serve the Park and the Old Spanish Trail Bicycle and Pedestrian Path. The south gate will provide access to the Arizona Trail and the Park's internal trail system from outside the Park boundary.
☐	Reconfigure the Park's existing equestrian trail system.
☐	Reconfigure the remainder of the Park's existing trail system so the trails are orderly and functional.
☐	Add an accessible trail.
☐	Support a new five-mile loop trail around Pistol Hill.
	Cienega Creek Natural Preserve
☐	Support additional trails identified in the Cienega Creek Natural Preserve Management Plan in cooperation with the Pima County Regional Flood Control District.

☐	Support to reduce the speed limit and install user-actuated warning lights, signs, and striping to enhance trail user safety on the Marsh Station Road Bridge across the Cienega Creek.
☐	Improve all three existing trailheads. The Davidson Canyon Trailhead parking lot could be expanded, a designated equestrian staging area could be created, signs could be improved, and interpretive information could be installed.
☐	Use Open Space Bond and Regional Flood Control District funding to expand the Preserve, creating the opportunity to add recreational trails.
☐	Support the development of an 11-mile Cochise Trail to connect the Arizona Trail segment that passes through the Preserve with Pima County's McKenzie Ranch and Walden Ranch properties, as well as the Cochise County Trail System.
	Catalina State Park
☐	Support improvements to the Park's existing recreational trail system and trails-related facilities.
	Saguaro National Park, Rincon Mountain District
☐	Site and construct a key section of the Arizona Trail in the park to connect the existing backcountry segment of the trail with Hope Camp and the northern end of Pima County's segment of the trail, consistent with the trails plan element of the Park's new General Management Plan.
☐	Develop a trailhead at the eastern end of Broadway Boulevard, just outside the Park boundary.
☐	Develop a formal trailhead facility at the northern end of Camino Loma Alta to provide access into the Park's East Expansion area.
☐	Connect the Shurban Wash Trail to the western boundary of the park, midway between Escalante and Irvington roads.
	Saguaro National Park, Tucson Mountain District
☐	Support new recreational trails in the Park, consistent with the trails plan element of the Park's new General Management Plan.
☐	Support a link between the Park's trail system and the Central Arizona Project Trail.
	Coronado National Forest, Santa Catalina Ranger District
☐	Support an access to the Forest 1) from the east end of Roger Road and 2) from the Milagrosa Canyon/Agua Caliente Hill area (Horsehead Road). Also see System Access.
☐	Support additional Forest public access points to the Tucson metropolitan area along the southern boundary of the district including • at the north end of the Houghton Road corridor to provide access to the historic Soldier Trail and • the north end of Bowes Road (the northern continuation of the Harrison Road alignment).
☐	Support additional recreational trails in the Agua Caliente Hill area of the Forest in cooperation with the Coronado National Forest and the staff of the Santa Catalina Ranger District.
	Coronado National Forest, Nogales Ranger District
☐	Support a new public trailhead access point into the northernmost potion of the range from the south end of the Houghton Road corridor.
☐	Support an Arizona Trail segment between Lakes Road and Oak Tree Canyon.
☐	Support additional recreational trail opportunities in the district, in coordination with Forest staff, including: • a new hiking trail from the south end of Houghton Road to Mount Fagan and • new trails in the western foothills of the range.
	Empire-Cienega Resource Conservation Area (RCA)
☐	Support a connection between the Arizona Trail and the RCA per the RCA's management plan.
☐	Support access into the Whetstone Mountains from the Empirita Ranch area in conjunction with BLM, the Forest Service, Pima County, and the Arizona State Land Department.

☐	Support additional recreational trail opportunities in the RCA and State Trust Lands within the Las Cienegas National Conservation Area consistent with the adopted Empire-Cienega Resource Conservation Area Management Plan and the direction of the Tucson Field Office staff and the Arizona State Land Department.
	Ironwood Forest National Monument
☐	Support new trail corridors linking the Regional Trail System to the eastern boundary of the monument.
☐	Identify locations for future trailhead staging areas into the monument from its eastern boundary.

Other Opportunities

- Support the acquisition of the tract of Arizona State Trust Land located between the Cerro Colorado and Sierrita mountain ranges.
- Support opportunities for recreational trail users, particularly equestrians, within the boundaries of Tucson Water's 30,000 acres in Avra Valley.
- Support the acquisition of State Trust Land between the Sierrita Mountains and the Tohono O'odham reservation, immediately south of the Garcia Strip.

RIVER PARKS	
	Project
	Santa Cruz River Park
☐	Acquire right-of-way to develop the River Park on both banks.
☐	Connect the Santa Cruz, Cañada del Oro, Rillito, Pantano, Houghton, and Julian Wash Greenway corridors to create a functional system.
☐	Support the acquisition of sand and gravel operations on the east bank between Sunset and Orange Grove roads and building a crossing under Ajo Way.
☐	Upgrade old trail segments where they are too narrow, where bridge sections are not fully functional, or materials used previously have become hazardous.
☐	Prepare a corridor master plan to guide development.
	Rillito River Park
☐	Connect the Rillito River Park to the Santa Cruz River Park.
☐	Convert the south bank of the Rillito from pedestrian and equestrian use only to the divided urban pathway cross section (see Trail Standards).
☐	Acquire the needed right-of-way to implement the divided urban pathway cross section along the River Park's entire length.
☐	Update the corridor master plan to guide development.
	Cañada del Oro River Park
☐	Update existing master plan documents to reflect current conditions and extend CDO River Park west to connect with the completed segment west of La Cholla Boulevard (at Tucson National Golf Course).
	Eliminate gaps as needed and possible to complete CDO River Park south bank development from First Avenue to Big Wash.
	Tanque Verde River Park
☐	Acquire the needed right-of-way for the River Park for the full, three-mile stretch.
☐	Prepare a corridor master plan to guide development.

TRAILS PARKS

	Project
	Fantasy Island
☐	Redesign the trail system to enhance its sustainability.
	Greasewood Park
☐	Create additional trails on the site, including trails for physically-challenged users, consistent with the park's master plan.
☐	Support link from Greasewood Park to Sentinel Peak Park by creating a new connector trail across Arizona Game and Fish Department's property and along the south side of Anklam Road, crossing VA property to connect with Sentinel Peak park.
	Green Valley West Desert Preserve
☐	Support the preservation of approximately 2,017 acres State Trust Land property and develop additional trails, including trails for physically-challenged users.
	Habitat for Humanity Property
☐	Design and build a three-mile loop trail for the park.
	Catalina Regional Park
☐	Design and build recreational trails for equestrians.
	Raul M. Grijalva Canoa Ranch
☐	Develop recreational trails consistent with the adopted master plan.
	A7 Ranch
☐	Support recreational trails for hikers, mountain bikers, and equestrians.
	McKenzie Ranch
☐	Support a mountain bike competition course.
☐	Support recreational trails for other non-motorized users.
	Walden Ranch
☐	Support a hiker-only trail system on the property.
	Golf Links
☐	Support trails on the property for runners, walkers, and cyclists.
	Empirita Ranch (Pima County)
☐	Support an equestrian trails park and horse camp on the property.
	36th Street Properties
☐	Support the acquisition of the four foothill properties for possible addition to Tucson Mountain Park and develop a trails park.
	Rita Ranch Flood Control Basin
☐	Support the development of the eight-acre flood control basin, located immediately west of the Rita Ranch subdivision, into a small trails park.
☐	Support the connection of the basin to the Julian Wash Greenway on the U of A Science and Technology Park by creating a small connector trail between the basin and the greenway.
	Atturbury Preserve
☐	Support the designation of a natural preserve and equestrian/hiking facility.
	Valencia Trust Land Trails Park
☐	Support the acquisition of the 400-acre State Land property, north of Valencia Road, into a natural resource trails park.
	Kinnison Wash Trails Park
☐	Support the acquisition of the 80-acre State Land parcel, that straddles the Kinnison Wash just north and east of the intersection of Kolb and Irvington roads, into a trails park.

TRAILS PARKS

	Project
	Agua Caliente Trails Park
☐	Support the development of an equestrian trails park on the 20-acre parcel, immediately west of Houghton Road and bisected by Agua Caliente Creek.
☐	Support expansion of the park by using the Houghton Road right-of-way that abuts the park.

TRAILHEADS, ENTRY NODES, AND BOUNDARY ACCESS POINTS

	Project
	Roger Road
☐	Reestablish access to Coronado National Forest from the east end of Roger Road.
	Milagrosa Canyon and Agua Caliente Canyon
☐	Support the acquisition of the 1/2 mile private segment of Horsehead Road between Avenida de Suzenu and the western end of the public portion of Horsehead Road that provides access to Milagrosa Canyon.
☐	Support the purchase of parcels that provide access to Agua Caliente Canyon to ensure perpetual public access to this canyon.
	South Houghton
☐	Support obtaining access from the southern end of the Houghton Road alignment to the northern boundary of the Nogales Ranger District of the Coronado National Forest.
	Whetstone Mountains
☐	Work with the Arizona Game and Fish Department and the U.S. Forest Service obtain additional access points to the Whetstone Mountains.
	Coronado National Forest Access
☐	Support an access point at the northern terminus of Bowes Road, which is an extension of the Harrison Road alignment.
	Tangerine Trailhead
☐	Support a trailhead, immediately east of the CAP canal and approximately 1,900 feet north of Tangerine Road.
	Avra Valley Trailhead
☐	Support a staging area for the CAP Trail approximately 2,800 feet east of the CAP canal and immediately south of Avra Valley Road.
	Colossal Cave North and South Trailheads
☐	Support the Colossal Cave North Trailhead (located immediately east of Old Spanish Trail just outside the front gate of Colossal Cave Mountain Park) and the Colossal Cave South Trailhead (located immediately south of Colossal Cave Road just outside of Colossal Cave Mountain Park's south gate).
	Pistol Hill Loop Trailhead
☐	Support this facility at the southeast corner of Pistol Hill Road and Old Spanish Trail.
	Sahuarita Road Trailhead
☐	Support location of a trailhead at the corner of Highway 83 and Sahuarita Road.

A-6: Feature Numbers Cross Referenced to 1996 Plan

Trails

2009 Feature Number	2009 Feature Name	1996 Feature Number	1996 Trail Name
ST = Singletrack Trail RP = River Park G = Greenway T = Trail P = Path			
ST001		1	Agua Caliente Wash
ST002	Canada del Oro	1	
RP002		2	Canada del Oro
T006		3	Central Arizona Project Canal
G020/G021	Flato and Franco Greenways	4	Flato/Franco Wash System
RP003		5	Pantano Wash
RP004		6	Rillito River
ST007		7	San Pedro River
RP005		8	Santa Cruz River
ST009		9	Tanque Verde Wash
RP006	Tanque Verde River Park	9	Tanque Verde Wash
ST010		10	Black Wash
ST011		11	Brawley Wash
ST012		12	Prospector's Extension
ST013		13	Saginaw Hill
ST014		14	West Branch Santa Cruz River
G003	Ajo Way Greenway	15	Ajo Way
G011	Avra Valley Rd Greenway	16	Avra Valley Rd
ST017		17	Ft. Lowell
ST018		18	Manville Rd
ST019		19	Orange Grove Rd
ST020		20	Picture Rocks Rd
ST021		21	San Joaquin Rd
ST022		22	Sanders Rd
ST023		23	Gas Pipeline
ST024		24	~~Enchanted Hills~~/West Branch of Santa Cruz River
T014	Enchanted Hills Trail	24	Enchanted Hills~~West Branch of Santa Cruz River~~
ST025		25	Picture Rocks Wash
ST026		26	Roger Wash/Roger Extension
ST027		27	Sweetwater Wash
ST028		28	Wild Horse Wash
ST029		29	Catalina Park/Flat Rock
ST030		30	Big Wash/Hawser to Catalina park/Flat Rock Trail
ST031		31	Cochie Wash
ST032		32	Cottonwood Wash
ST033		33	La Cholla/Honey Bee Loop
ST035		35	Sutherland Wash
ST036		36	Wild Burro Wash
ST037		37	Chalk Mine Rd/Edwin Rd alignment
ST038		38	Caliente Hill Wash
ST039		39	Canyon del Salto
ST040		40	Esperero Wash
ST041		41	Finger Rock Wash
ST042		42	Geronimo Wash
ST043		43	Pima Wash
ST044		44	Pine Tree Wash
ST045		45	Sabino Creek West
ST046		46	Shurban Loop
ST047		47	Ventana Canyon Wash
P028	Old Spanish Trail Path	48	
ST049		49	Buehman Canyon
ST050		50	Edgar Canyon
ST051		51	Soza/Canada Atravesada-Saucito Canyon
ST052		52	Soza/Espiritu Canyon
ST053		53	Redington Rd
	now in Sag NM	54	Chimenea Creek
ST055		55	Cienega Creek
ST056		56	Davidson Canyon
ST057		57	Hidden Springs
ST058		58	Lower Agua Verde Creek
ST059		59	Mescal Arroyo

ST = Singletrack Trail RP = River Park G = Greenway T = Trail P = Path

ST060		60	Monument Boundary Trail
ST061		61	Posta Quemada
ST062		62	Rincon Creek
G036	Rincon Greenway	62	Rincon Creek
ST063		63	Total Wreck Wash and Trail
ST064		64	Colossal Cave/Vail Rd
ST065		65	Houghton Rd
G025	Houghton Rd Greenway	65	Houghton Rd
ST066		66	Marsh Station Rd
P028	Old Spanish Trl Path	67	Old Spanish Trail
ST068		68	Pistol Hill/Papago Springs Rd
ST069		69	Pistol Hill Rd (private)
G044	Sahuarita Greenway	70	Sahuarita Rd
ST071		71	Wentworth Rd
ST072		72	X-9 Ranch Rd (private)
ST078		73	Powerline
ST074		74	Alvernon Extension
ST075		75	Ash Wash
ST076		76	Alvernon Way/Dawson Rd
ST077		77	Demetrie Wash
ST078		78	Esperanza Wash (Tinaja Wash)
ST079		79	Fresnal Wash
ST080		80	Madera Canyon Wash
ST081		81	Proctor Wash/Bob Brown Lateral
ST082		82	Cerro Colorados South Access Rd
ST083		83	Continental Rd
ST084		84	Duval Mine Rd
ST085		85	Elephant Head/Hawk Way
ST086		86	Madera Canyon Rd
ST087		87	McGee Ranch Rd
ST088		88	Mission Rd
ST100		100	Aldon Rd and East and West Forks
ST101		101	Beehive Trail
ST102		102	Cardinal Trail
ST103		103	Dakota Wash
ST104		104	Ironwood Link
ST105		105	Pena Wash
ST106		106	Bilby Rd
ST107		107	Bopp Rd
ST108		108	Calle Anasazi
ST109		109	Cardinal Ave
ST100		110	Carol Ave
ST111		111	Castle Dr
ST112		112	Chipewa Rd
ST113		113	Deaver Rd
ST114		114	Hilltop Rd
ST115		115	Irvington Rd
ST116		116	Michigan St
ST117		117	Naomi Rd
ST118		118	Nebraska Rd
ST119		119	Sandario Rd
G045	Sandario Greenway	119	Sandario Rd
ST120		120	Scenic Dr
ST121		121	Sierrita Mtn Rd
P033	Silverbell Rd Path	122	Silverbell Rd
ST123		123	Tucson Estates Pkwy
ST124		124	Twin Peaks Rd
G030	Manzanita Greenway	125	Gas pipeline
ST126		126	Anklam Local
ST127		127	Belmont Loop
T007	Cholla Wash Trail	128	Cholla Wash
ST129		129	Greasewood Loop
ST130		130	Middle Branch of East Idle Hr Wash
ST131		131	North Fork Roger Wash
ST132		132	Painted Hills Wash
ST133		133	Safford Peak
T010	Connec to Habitat for Hum TP	134	San Juan Wash
ST135		135	Shannon Wash
ST136		136	Silvercroft Wash
ST137		137	South Branches of East Idle Hr Wash
ST138		138	South Fork Roger Wash
ST139		139	South Sweetwater

ST = Singletrack Trail RP = River Park G = Greenway T = Trail P = Path

ST140		140	Speedway Wash
ST141		141	Sweetwater Trail Rd
ST142		142	Thirty-sixth St Extension
ST143		143	Trails End Wash
ST144		144	West Idle Hour Wash
ST145		145	Yuma Mine Trail
ST146		146	Belmont Rd
ST147		147	Cottonwood Ln
ST148		148	El Camino del Cerro
P015	Greasewood Rd algn Path	149	Greasewood Rd
ST150		150	Ironwood Hill Dr
P024	Mission Rd Path	151	Mission Ln
P024	Mission Rd Path	152	Silverbell/Congress/Grande/Mission
P033	Silverbell Rd Path	152	Silverbell/Congress/Grande/Mission
ST153		153	Sweetwater Dr
G022	Greasewood Rd algn Greenway	154	Greasewood Utility Easement
P015	Greasewood Rd algn Path	154	Greasewood Utility Easement
ST155		155	Gas pipeline
RP001		156	Big Wash
ST157		157	Cedar Breaks
ST158		158	El Camino de Manana Wash
ST159		159	Golder Ranch Loop to Little Cottonwoods
ST160		160	Hardy Wash
ST161		161	La Cholla East
ST162		162	Little Cottonwood Link
ST163		163	Prospect Wash
ST164		164	Scottie's Loop
ST165		165	Shannon Extension
ST166		166	South Lago Link
ST167		167	Tortolita Foothills Trail
ST168		168	Twenty-seven Wash
ST169		169	Bowman Rd
ST170		170	Lambert Ln
ST171		171	Moore Rd alignment
ST172		172	Potvin Rd
ST173		173	Rollin Rd
ST174		174	Shannon Rd
ST175		175	Thornydale Rd
ST176		176	Tortolita Rd
ST177		177	Twin Lakes
ST179		179	Power transmission line
ST180	WAPA Line Trail	180	Power Line Rd
ST181		181	Agua Caliente/Conestoga
ST182		182	Campbell/Camino Real
ST183		183	Carmack Wash
ST184		184	Casas Adobes Loops
ST185		185	Casas Adobes Loops
ST186		186	Cloud Wash and Ridge
T011	Coronado Ridge Wash Trail	187	Coronado Ridge Wash
ST288		188	Craycroft Wash
ST189		189	Escalante Wash
ST190		190	Flecha Caida Wash
ST191		191	Forty Niners Wash
ST192		192	Freeman/Del Este/Calle Catalina
ST193		193	Friendly Village/Via Entrada
ST194		194	Hacienda del Sol Wash
	now golf course	195	Harrison-Houghton Link
G023	Hidden Hills Wash Greenway	196	Hidden Hills Wash
T018	Hidden Hills Wash Trail	196	Hidden Hills Wash
ST197		197	Las Lomitas Wash
ST198		198	Melpomene Loop
ST199		199	Orange Ave/Tomahawk
ST200		200	Pegler Wash
ST201		201	Pontatoc/Valley View/Flecha Caida
ST202		202	Pontatoc Wash
ST203		203	Race Track Wash
ST204		204	Reyes Wash
T025	Reyes Wash Trail	204	Reyes Wash
G038	Robb Wash Greenway	205	Robb Wash
P031	Robb Wash Path	205	Robb Wash
G041	Rolling Hills Wash Greenway	206	Rolling Hills Wash
ST207		207	Spanish Trail Wash
ST208		208	Tanuri/Craycroft
ST209		209	Tanuri Wash-east tributary

ST = Singletrack Trail RP = River Park G = Greenway T = Trail P = Path

ST210		210	Valley View Wash
ST211		211	Via Entrada Wash
ST212		212	Via Entrada Wash-east tributary
ST213		213	Ave del Conejo
ST214		214	Bear Canyon Rd alignment
ST215		215	Birch Way alignment
ST216		216	Broadway Blvd
ST217		217	Calle Loma Linda alignment
ST218		218	Camino Coronado/Camino de Anza
ST219		219	Ft. Lowell Rd
ST220		220	Hardy Rd alignment
G025	Houghton Rd Greenway	221	Houghton Rd
ST222		222	Jeanette Ave
ST223		223	Kleindale Rd
T019	La Canada Dr Trail	224	La Canada Dr
ST225		225	La Oeste/Pine St/Morningview Dr
ST226		226	Linda Vista Blvd
ST227		227	Melpomene Way
ST228		228	Melpomene Way alignment
ST229		229	Montebella Rd
ST230		230	Prince Rd
ST231		231	Redington Rd
ST232		232	Roger Rd alignment
ST233		233	Roger Rd
ST234		234	Snyder Rd alignment
ST235		235	Tanque Verde Rd
ST236		236	Verch Way
ST237		237	Wentworth Rd alignment
ST238		238	Woodland Rd east end alignment
ST239		239	Friendly Village drainageway
ST240		240	Linda Vista easement
ST241		241	Pine Tree Wash to Prince Rd
ST242		242	Agua Verde Link
ST243		243	Agua Verde North Fork
ST244		244	Andrada Ranch Link
ST245		245	Arrowhead
ST246		246	Coyote Wash
ST247		247	Davidson Local
ST248		248	Davidson Loop
ST249		249	Garrigans East
ST250		250	Garrigans Loop
ST251		251	Gas-Power East
ST252		252	Gas-Power Middle
ST253		253	Gas-Power West
ST254		254	Hope Camp
	now in Sag NM	255	Hope Camp East Loop
ST256		256	Mt Fagan East Loop
ST257		257	Mt Fagan West Loop
ST258		258	North Coyote
ST259		259	Phoneline Link
ST260		260	Red Hill Ranch Rd
ST261		261	Rincon Creek South Fork
	now in Sag NM	262	Rincon-Madrona Link
ST263		263	Rocking K
ST264		264	Sahuarita-Mt Fagan Link
ST265		265	Thunderbird Trail
ST266		266	Total Wreck Local
ST267		267	Twin Tanks
ST268		268	Upper Agua Verde Creek
ST269		269	Vail Loop/Gas Pipeline
ST270		270	Andrada Rd
ST271		271	Arizona Hwy 83
G047	Sonoita Greenway	271	
G013	Camino Loma Alta Greenway	272	Camino Loma Alta
ST273		273	Davidson Rd
ST274		274	Garrigans Gulch
ST275		275	Old Sonoita Hwy
ST276		276	Cross Hill/Pipeline
G018	Esmond Station G	277	Esmond Station Railroad Trail
ST278		278	Gas pipeline
G034	Power Line Greenway	278	
ST279		279	Power Line

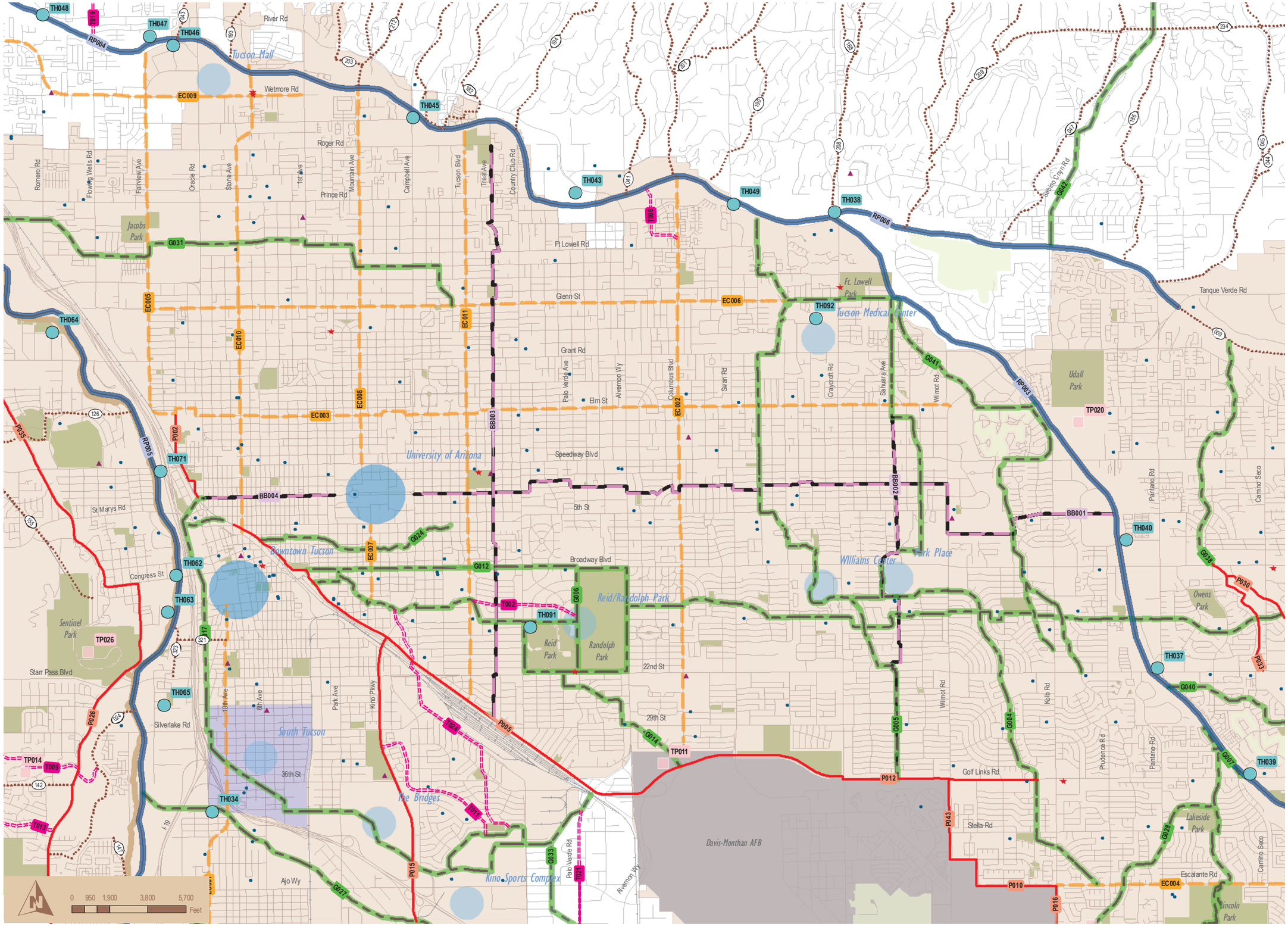
ST = Singletrack Trail RP = River Park G = Greenway T = Trail P = Path

ST280		280	Power Line
ST281		281	Arroyo #17
ST282		282	Canoa West Loop
ST283		283	Cattle Loop
ST284		284	El Toro Rd to Dawson Rd
ST285		285	Head East Trail
ST268		286	Upper Agua Verde Creek/Power Line
ST286		286	Helmet Peak Loops
ST287		287	Landing Strip
ST288		288	Pig Farm
ST289		289	Power Line Loop
ST290		290	Tailings Pond Rd
ST291		291	Well Trail
ST292		292	West Loop-Green Valley
ST293		293	West Madera Loop
ST294		294	Ruby Star Ranch Rd to La Villita
BCR295		295	Abrego Rd
ST296		296	Batamote Rd
ST297		297	Camino del Sol
ST298		298	Country Club Rd
ST299		299	Delgado Rd
ST300		300	Duval Mine Rd
ST301		301	El Toro Rd/East
ST302		302	La Canada
ST303		303	Las Quintas
ST304		304	Mission Twin Buttes
ST305		305	Santa Rita Rd
ST306		306	Green Valley/West Grant boundary line power line
ST307		307	Power Line/Country Club Rd
G001	Airport Wash Greenway	308	Airport Wash
T023	replaced by the Power Line Trail	308	Airport Wash
G004	Alamo Wash Greenway	309	Alamo Wash
G005	Arcadia Wash Greenway	310	Arcadia Wash
G007	Arroyo Chico West Greenway	311	Arroyo Chico
G008	Atturbury Wash Greenway	312	Atterbury Wash
G014	Citation Greenway	314	Citation Wash
G039	part of the Rodeo Wash Gnwy	315	Earp Wash
G024	High School Wash Greenway	316	High School Wash
G027	Julian Wash Greenway	317	Julian Wash
G028	Kinnison Wash Greenway	318	Kinnison Wash
G039	Rodeo Wash Greenway	319	Rodeo Wash
G042	Rose Hill Wash Greenway	320	Rose Hill Wash
ST321		321	Eighteenth St
	replaced by Enc Corri on Tucson Blvd	322	Jackson Ave
ST323		323	Kroeger Ln
G017	El Paso SW Gas Greenway	324	Abandoned El Paso and Southwestern RR ROW
ST199	Harrison Rd		

Access Points

2009 Feature Number	2009 Feature Name	1996 Feature Number	1996 BAP Name	1996 Subregion
BAP128	Aldon Road	1	Aldon Road	1
BAP129	Calle Anasazi	2	Calle Anasazi	1
BAP130	CAP/San Joaquin	3	CAP/San Joaquin	1
TH082	Cat Mountain	4	CAP Tunnel - TMP (Starr Pass W.)	1
BAP071	Fort Lowell Road	5	Fort Lowell Road	1
TH084	Explorer	6	Gas pipeline	1
BAP136	Tucson Estates Parkway	7	Golden Gate	1
BAP072	Manville Road	8	Manville Road	1
BAP131	Naomi Road	9	Naomi Road Wash	1
	(deleted)	10	Old Ajo Way	1
TH054	Picture Rocks Road	11	Picture Rocks Road	1
BAP132	Prospector's Extension	12	Prospector	1
TH086	Sarasota	13	Sarasota Road	1
BAP074	Picture Rocks Wash South 1	14	Box Canyon	2
TH052	El Camino del Cerro	15	El Camino del Cerro	2
TH080	Camino de Oeste	16	El Camino de Oeste	2
TH079	36th Street	17	Enchanted Hills Wash	2
	(deleted)	18	Greasewood Road	2
BAP073	Picture Rocks Wash North	19	Ina Road	2
BAP076	Roger Wash Extension	20	Roger Extension at SNMW	2
BAP080	South Sweetwater	21	Roger Extension at TMP	2
BAP078	Roger Wash North Fork	22	Roger Wash	2
BAP133	Scenic Drive	23	Scenic Drive	2
TH087	Starr Pass East	24	Starr Pass East	2
BAP082	Sweetwater Wash	25	Sweetwater Wash	2
BAP081	Sweetwater Road Trail	26	Sweetwater Trailhead	2
BAP135	Trails End Wash	27	Trails End Wash	2
BAP086	Yuma Mine Trail	28	Yuma Mine	2
BAP107	Catalina State Park North (moved north)	29	Canada del Oro/Catalina State Park North	3
	(deleted)	30	Canada del Oro/Catalina St. Park South	3
	(deleted)	31	Cottonwood Wash	3
	(deleted)	32	Cottonwoods	3
	(deleted)	33	Crow Windmill	3
BAP028	Flat Rock	34	Flat Rock	3
BAP021	Canyon Vista Road	35	Harm Gate	3
BAP113	Honeybee Canyon Trail E2	36	Honeybee	3
BAP117	Little Cottonwoods	37	Little Cottonwoods	3
BAP037	Middle Gate	38	Middle Gate	3
BAP108	Canada del Oro (moved north and west)	39	North Catalina Park	3
	(deleted)	40	Ruelas Canyon	3
	(deleted)	41	Shannon North	3
BAP119	Swan Rd algn (moved north and west)	42	Sutherland	3
BAP120	Tortolita Foothills Trail	43	Tortolita Road	3
TH078	Wild Burro Trail	44	Wild Burro	3
TH019	Finger Rock Wash	53	Finger Rock	4
BAP033	Houghton Road	54	Houghton Road	4
TH021	Linda Vista	55	Linda Vista	4
TH051	Old Spanish Trail	56	Old Spanish	4
TH020	Iris Dewhirst Pima Canyon	57	Pima Canyon	4
TH022	Sabino Canyon Recreation Area	58	Sabino Canyon Main Entrance	4
BAP066	Saguaro Natl Park	59	Saguaro NME Main Entrance	4
BAP043	Tanque Verde Creek	60	Tanque Verde Creek	4
TH016	Avenida de Suzenu	45	Agua Caliente Canyon	4
TH015	Agua Caliente Park (moved east)	46	Agua Caliente Hill North	4
TH014	Agua Caliente Hill South (moved east)	47	Agua Caliente Hill South	4
TH017	Bear Canyon Road	48	Bear Canyon Road	4
TH048	Broadway Gate (moved east)	49	Cactus Forest Campbell Avenue	4
TH018	Campbell	50	Campbell Avenue	4
BAP020	Canyon del Salto	51	Canyon del Salto	4
TH050	Douglas Spring	52	Douglas Spring	4
	(deleted)	64	Buehman Canyon North	5
BAP019	Buehman Canyon South	65	Buehman Canyon South	5
BAP0254	Edgar Canyon	66	Edgar Canyon	5
BAP040	Pelon Spring	67	Pelon Spring	5
BAP042	Soza Canyon/Espiritu Canyon	68	Soza Canyon/Espiritu Canyon	5
BAP067	Wentworth Road	61	Wentworth	4

2009 Feature Number	2009 Feature Name	1996 Feature Number	1996 BAP Name	1996 Subregion
	(deleted)	62	Wildhorse	4
TH023	Ventana Canyon	63	Ventana Canyon	4
BAP060	Hope Camp (moved south)	78	Hope Camp	6
BAP034	Houghton Rd	79	Houghton Road	6
	(deleted)	80	Madrona	6
BAP038	Mulberry	81	Mulberry	6
BAP039	Papago Springs	82	Papago Springs	6
BAP062	Phoneline Link	83	Phoneline	6
BAP041	Posta Quemada	84	Posta Quemada	6
BAP063	Rincon Creek East	85	Rincon Creek	6
BAP016	Agua Verde Link	69	Agua Verde Link	6
BAP017	Agua Verde North Fork	70	Agua Verde North Fork	6
BAP018	Arrowhead	71	Arrowhead	6
BAP003	Agua Verde Link North	72	Cienega East	6
TH010	Cienega West	73	Cienega West	6
	(deleted)	74	Davidson North	6
BAP022	Davidson Canyon	75	Davidson South	6
BAP023	Distillery Canyon	76	Distillery Canyon	6
BAP032	Hidden Springs	77	Hidden Springs	6
BAP087	Alvernon Extension	92	Alvernon Extension	7
BAP096	Ash Wash	93	Ash Wash	7
BAP002	Proctor Wash/Bob Brown	94	Bob Brown	7
BAP001	Cerro Colorados	95	Cerro Colorados South/Arivaca Road	7
BAP0254	Elephant Head	96	Chino Basin	7
BAP097	Demetrie Wash	97	Demetrie Wash/Sierritas	7
BAP098	Esperanza Wash	98	Esperanza/Tinaja Washes	7
BAP099	Fresnal Wash	99	Fresnal Canyon	7
BAP088	Alvernon Way/Dawson Rd	100	Helvetia Wash	7
	(deleted)	86	Rincon-Madrona	6
BAP065	Rincon South Fork	87	Rincon South Fork	6
	(deleted)	88	Rocking K	6
BAP055	The Narrows	89	The Narrows	6
BAP054	Total Wreck	90	Total Wreck	6
BAP068	X-9 Ranch Road	91	X-9	6
BAP089	Madera Canyon Road	101	Madera Canyon Road	7
BAP036	Madera Canyon Wash	102	Madera Canyon West	7
BAP100	McGee Ranch Rd	103	McGee Ranch Road	7
BAP101	Proctor Wash/Bob Brown	104	Sierritas South/Proctor Wash	7



PIMA REGIONAL TRAIL SYSTEM
Master Plan

- Trailhead
- Trails Park
- Schools
- Libraries
- Park and Ride Lots
- Singletrack Trails*
- Path
- Trail
- River Park
- Greenway
- Bike Boulevard
- Enhanced Corridor
- Pedestrian District
- Pedestrian Activity Area
- Pipelines
- Anza Trail
- Railroad
- Major Washes
- Streets
- Tucson Parks
- Golf Courses
- Davis-Monthan AFB
- City Boundaries

NOTE
See full Trail System Matser Plan map for list of feature names and numbers. Refer to Master Plan report for Singletrack Trail names and numbers.

DISCLAIMERS
- This map is a planning tool. Many of the features are proposed and not open to the public for any purpose.
- Many depicted facilities are schematic, meant only to display a travel corridor and do not represent an accurate alignment.
- Final facility alignments and locations are subject to review and approval by the appropriate jurisdictional representative.
- The information is provided "as is" without warranty of any kind, express or implied.

AUGUST 9, 2010

HDR
COFFMAN STUDIO, LLC
McGann & Associates

Rillito River Park Trail and Path

Pima Regional Trail System Master Plan Update
2010