



VOLCANO TRAILS

Sector Development Plan

~~July 2010 Draft~~
March 2011 Red-line



Volcano Trails Sector Development Plan

City of Albuquerque

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Note for EPC Hearing March 3, 2011:

In this redline document, changes in red are based on recommended conditions of approval from the November 4, 2010 EPC hearing. Numbers in brackets refer to the spreadsheet of comments and responses and are generally listed in the order they appear.

Changes in blue reflect more recent clarifications and adjustments based on further staff review and additional public and agency input.

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Chapter 1

Introduction. In 2004, the City Council called for a planning study of the larger Volcano Mesa area. Finding that “The Volcanic Escarpment of the Northwest Mesa has long been considered a unique landscape that requires special protection,” the Council expressed concerns over development trends with subdivisions being approved piecemeal without the guidance of an overall plan for the area. The Council recognized the need for a plan that would bring development in line with the Westside Strategic Plan (WSSP), the Northwest Mesa Escarpment Plan (NWMEP), the Albuquerque / Bernalillo County Comprehensive Plan, and other previously established policies. Issues to be addressed included transportation, drainage, water and wastewater, a mix of land uses, view corridors, building height, massing and orientation, walls, parks, trails and open space, and phasing and timing of growth.

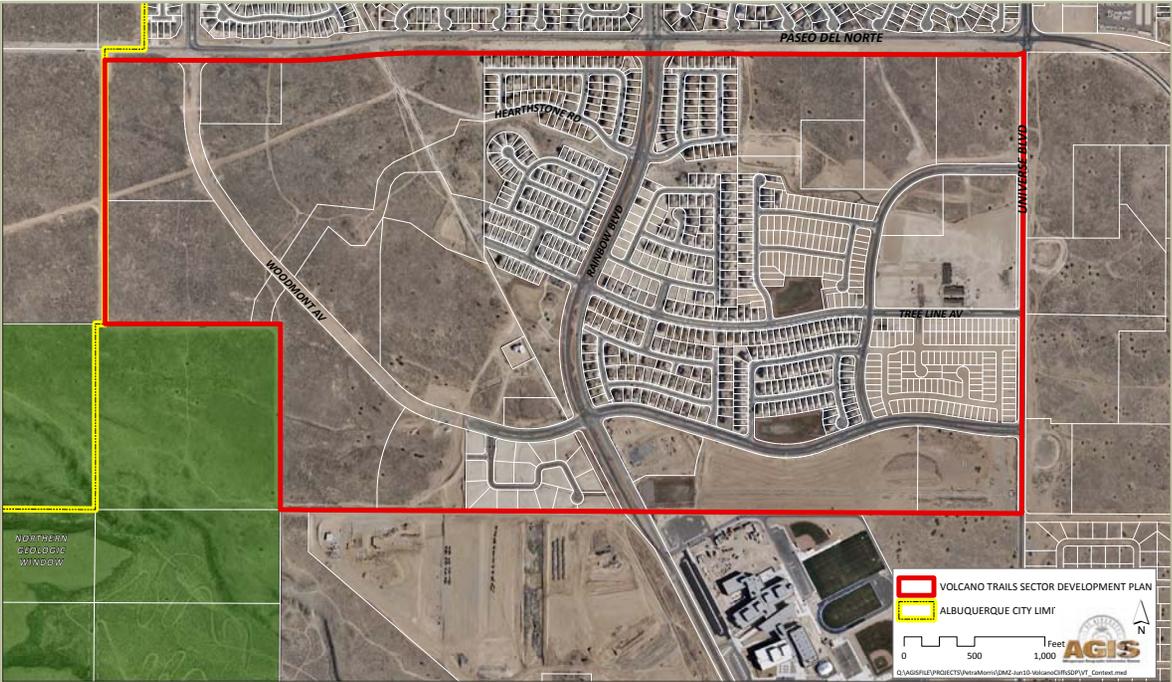
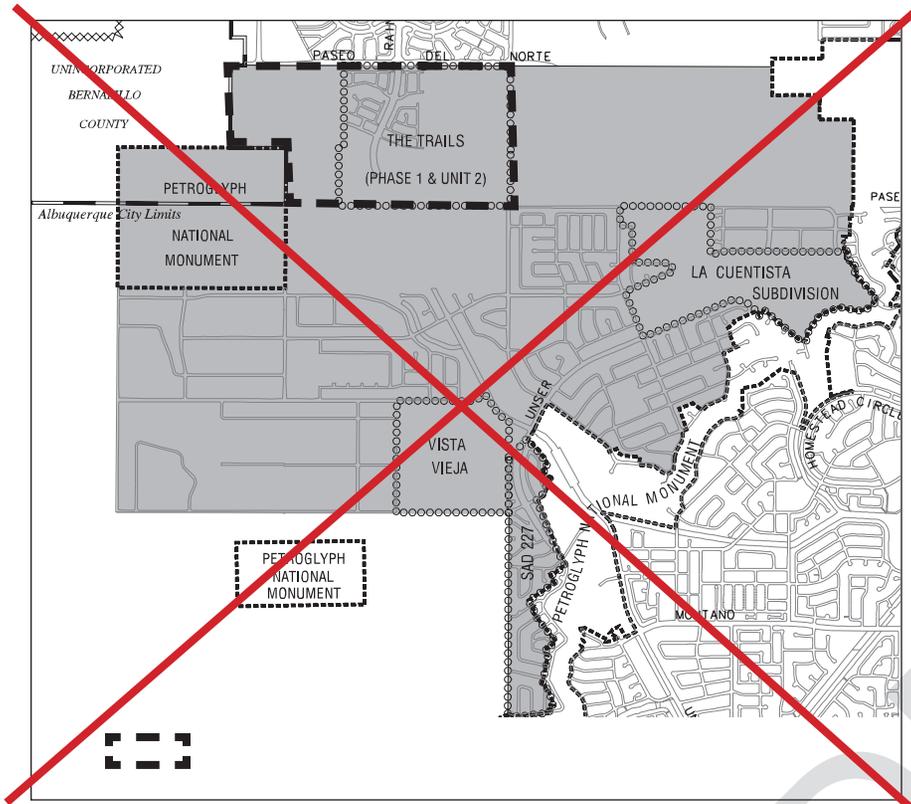


Exhibit 1, Volcano Trails Plan Area

The Planning study forecasted over 100,000 additional residents at final build out in the Volcano Mesa area and adjoining areas on the Northwest Mesa and identified how build-out of exclusively single family residential subdivisions would increase the imbalance of jobs and housing, adding to traffic demands and increasing the burden on Westside and east-west transportation systems. The study identified an overall need for transit-supportive densities and design; additional mixed-use centers; a large-scale, regional mixed-use employment center; consolidation and connection of open space and trails along drainage channels; and retaining access to exceptional views.

Chapter 1

Introduction



Purpose of the Plan. The Volcano Trails Sector Development Plan, “the Plan,” provides regulatory guidance for the development of the Trails, a 44600-acre master-planned community by Longford Homes consisting of residential villages, parks, trails, an Albuquerque Public Schools (APS) school site, and neighborhood retail and services. [317]

The Plan adopts zoning and land-use strategies that support area-wide policies for high-quality development with a range of housing densities and that respond to the area’s unique location and landscape. The Plan’s strategies are based on implementing the policies of the 2011 WSSP Volcano Mesa amendment that identifies the Plan area for a pedestrian-friendly residential development with limited commercial and mixed uses serving nearby neighborhoods.

Plan Area. The Volcano Trails Sector Development Plan (See **Exhibit 1, Trails Plan Area**) covers the 446-00-acre Trails subdivision, located south of Paseo del Norte and west of Universe Boulevard. The Plan area is part of the larger 3,532-acre Volcano Mesa planning area designated by the 2011 WSSP Volcano Mesa amendment that identifies the Plan area for predominantly single-family residential uses and small neighborhood-serving commercial areas (See **Exhibit 3, Volcano Mesa Plan Area**). [317] [316]

Exhibit 2, Exempted Areas [316]

[Insert new Exhibit 2, The Trails Phase 1 and Unit 2 Tracts]

During the initial planning process for the larger Volcano Mesa area in 2004, certain areas were exempted from consideration of new land-use regulations. The exempted areas were those that had received preliminary approval as of October 1-, 2004, when a development moratorium was instituted for the Volcano Mesa area and for those areas that received final plat approval during the planning process as the 2006 Plan was being developed. Although the area of the Trails known as Phase 1 and Unit 2 were exempted during that process, the developer agreed to make certain design modifications for the currently un-built portion of that exempted areas, which are now part of the Plan’s new zones (See **Exhibit 2, The Trails Phase I and Unit 2 Tracts**).

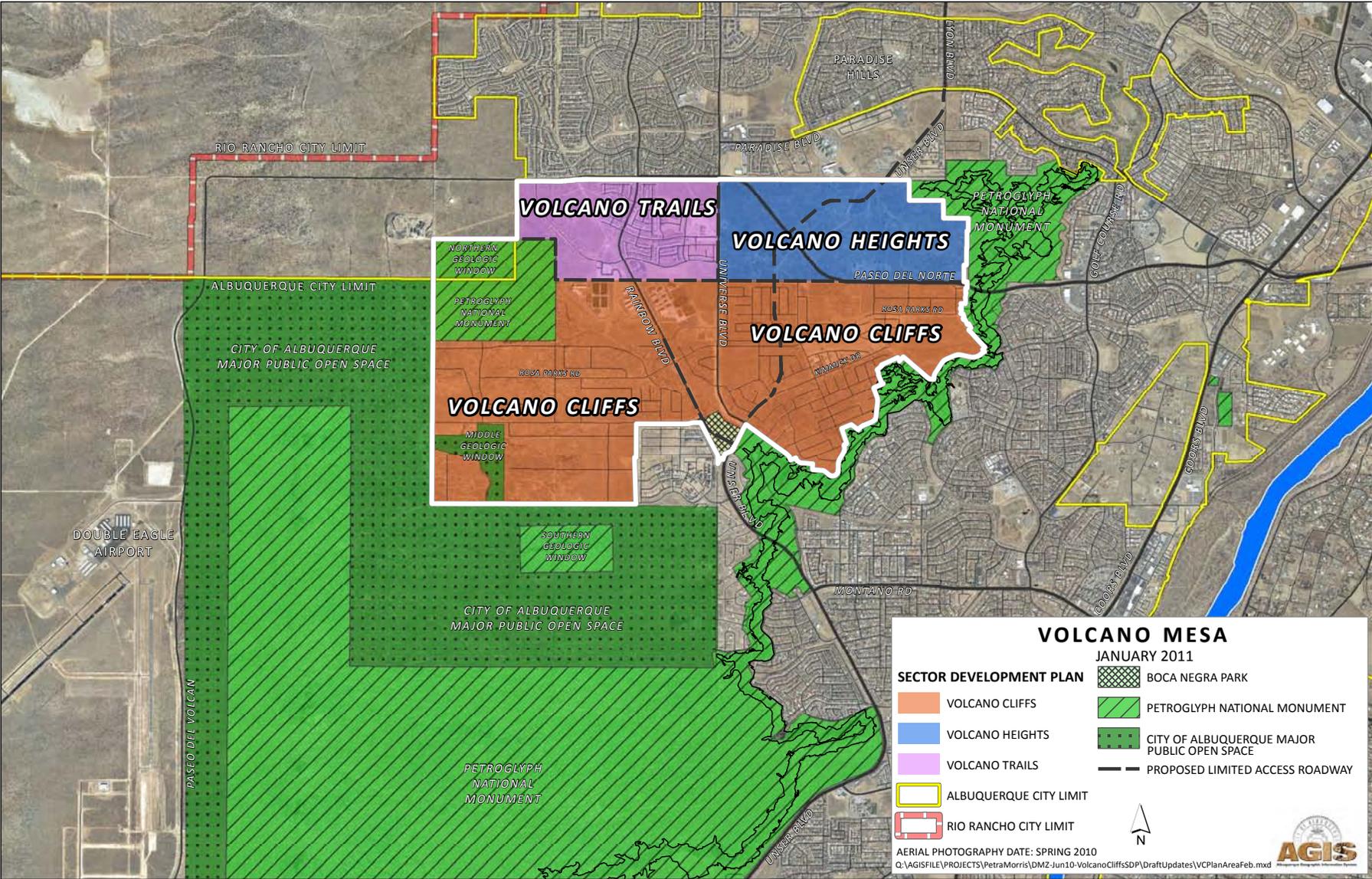


Exhibit 3, Volcano Mesa Plan Area

[9]

Chapter 1

Introduction

[Graphic to come showing boundaries mentioned in “Area overview.”]

Exhibit 4, Volcano Trails Plan Location

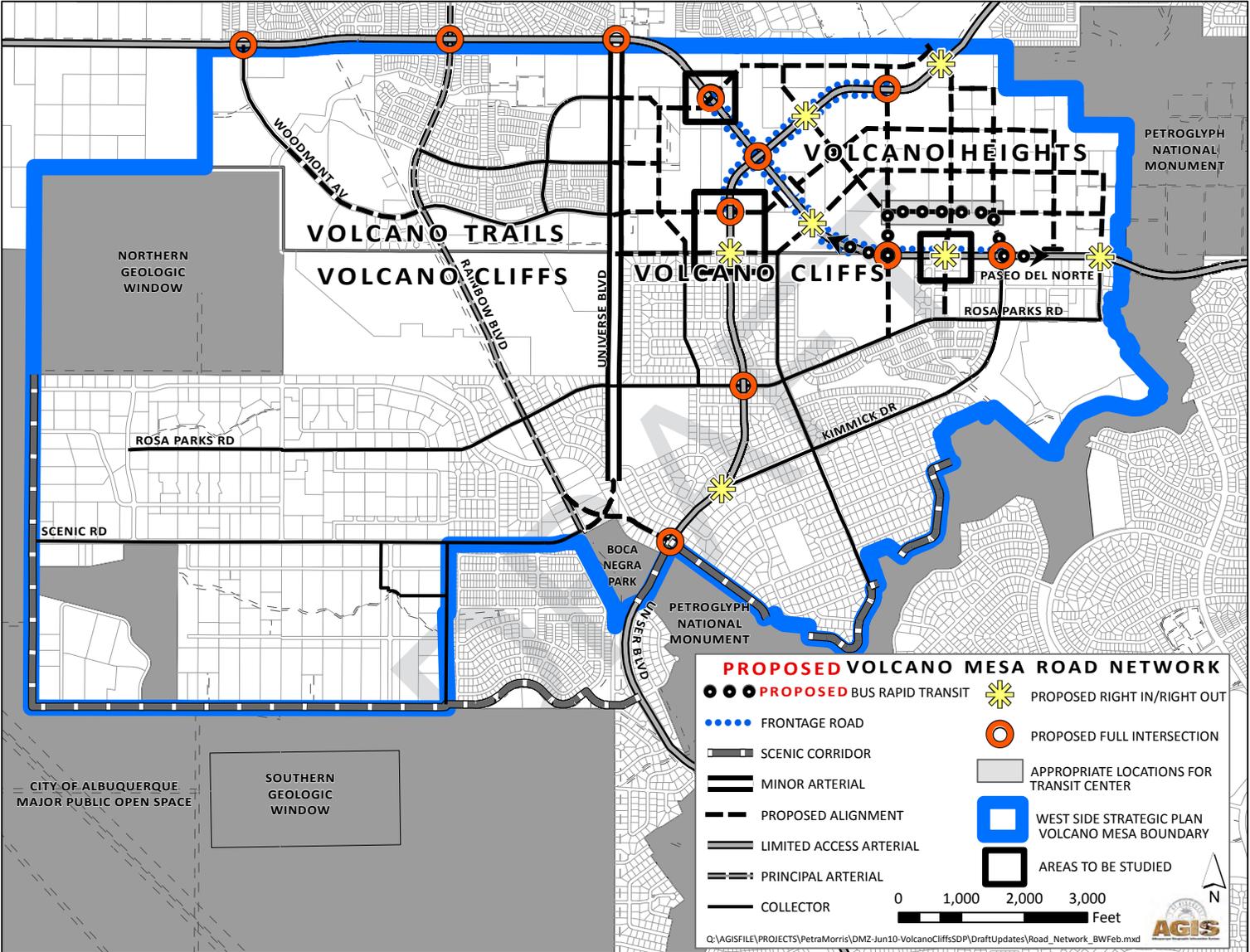
Area Overview. The Plan area is located north of Volcano Vista High School, Tony Hillerman Middle School, and Tierra Antigua Elementary School and undeveloped lands held by the State of New Mexico. Paseo del Norte borders the area to the north and Universe to the east. To the west of the Plan Area is the Petroglyph National Monument’s North Geologic Window and undeveloped land in unincorporated Bernalillo County. (See [Exhibit 4, Volcano Trails Plan Location](#).)

Approximately XX percent of the Trails is complete. Vacant parcels remaining include the lots bordering the North Geologic window and APS and State of New Mexico lands, the areas designated for future commercial uses and a XX acre parcel designated for future APS use. [New APS language pending solidification of APS plans for the site.] [321]

Transportation. The Plan’s major road network, in various states of completion, includes the following:

- Rainbow Boulevard, a principal arterial, which bisects the plan area and provides access from Paseo del Norte, a limited access major arterial, to the APS campuses of Volcano Vista High School, Tony Hillerman Middle School, and Tierra Antigua Elementary School;
- Universe Boulevard, a designated minor arterial, which borders the Plan to the east; and
- Woodmont Avenue, a designated collector, which upon completion will generally run east-west through the plan area from Paseo del Norte to Rainbow and Universe Boulevards, eventually connecting outside of the Plan area with Unser Boulevard.

Other collector streets include Treeline and Oakridge.



[Graphic to be revised per Transit comments and WSSP amendment map]

[9]

Exhibit 5 4, Proposed Volcano Mesa Road Network

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Introduction

[Graphic to be revised to change base map and remove open space, APS, and State of NM lands"] [320]

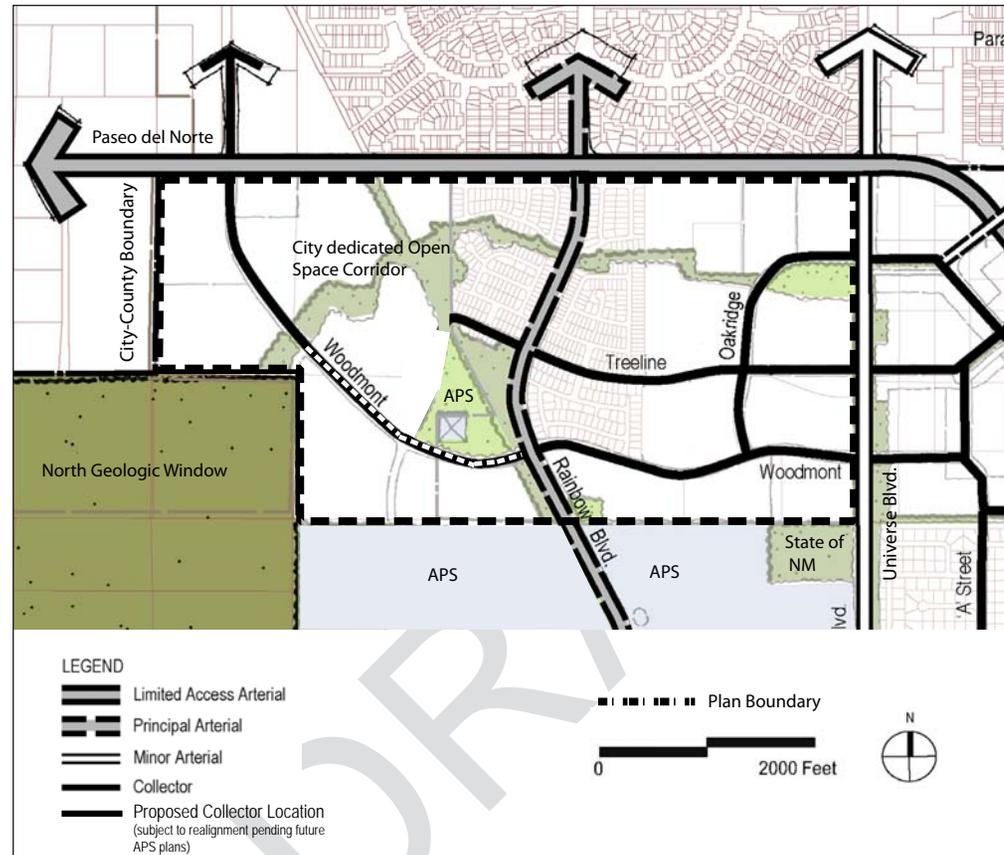


Exhibit 6-5, Volcano Trails Road Network

[Graphic to come showing On-Street Bike-ways Network]

Exhibit 7 6, Volcano Trails On-Street Bikeways Network [323]

Open Space and Parks. The Plan's western boundary includes the Petroglyph National Monument's North Geologic Window, which contains culturally significant resources that should be protected by access restrictions limiting use. Internal to the Trails development, **XX** acres of open space including two parks, one of which has been built, the other of which is still in the planning phases. This open space/park area forms a corridor that runs through the development, providing trails and park sites for area recreation. The corridor connects to the designated open space corridor located along Universe Boulevard, which runs the length of the Plan area. [321]

Chapter 1

Introduction

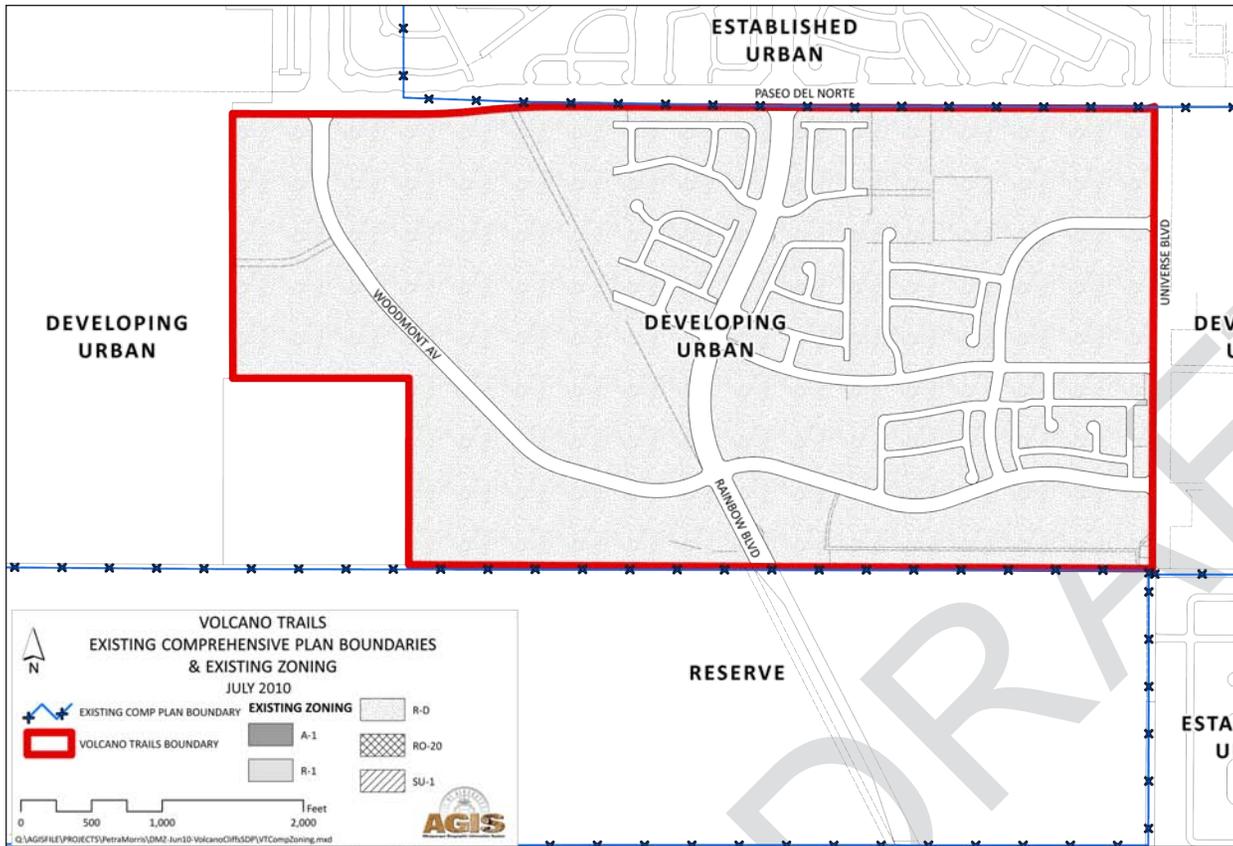


Exhibit 8-6, Pre-existing Zoning and Comprehensive Plan Designation

Pre-existing Current Zoning. Until the adoption of this Plan, the Plan area was zoned for single-family residential development (Residential Developing Area - RD) at average suburban densities of 5 dwelling units per acre (du/acre). RD zoning allows uses as intense as residential townhouse (RT) or residential limited townhouse (RLT). Up-zoning from RD uses to uses, as allowed by the RD zone, has been sought in order to obtain more flexibility in lot sizes and greater density. In the RD zone, townhomes are permitted if a site development plan is approved by the Planning Director (or his/her designee) and the Design Review Board (DRB). If multifamily or commercial uses are desired, then an RD sector development plan approved by the Environmental Planning Commission (EPC) is required, but the amount of commercial cannot exceed 15% of the RD zone covered by the sector plan. Because these uses that involve higher densities are allowed within the zone, the potential

outcomes for development are hard to predict, and unintended negative impacts are difficult to mitigate. This Plan seeks to introduce the range of lot sizes, housing types, and densities of development and maintain flexibility in the development process, while improving the predictability of development. The expected total build-out for the Plan area under pre-existing current zoning is xx dwelling units. Expected build-out with this sector plan zoning is roughly the same, with the addition of xx square feet of commercial uses. [325] [321]

The current single-use residential zoning prohibits integrating a mix of other uses that could make neighborhoods more walkable and convenient (e.g. neighborhood services). This Plan adopts new zoning for ~~neighborhood-serving~~ commercial areas with pedestrian-oriented design standards ~~that serve neighborhoods~~. ~~It is the intention that~~ This new commercial zoning will allow development that supports a wide range of transportation, ~~housing, and amenity~~ choices.

Planning Process. In 2010, at the direction of City Councilor Dan Lewis and Planning Director Deborah Stover, in consultation with area property owners, a new approach to developing long-range plans for this special area of Albuquerque was initiated. The original Volcano Heights Sector Plan was adopted in 2006 but appealed to district court by the Volcano Cliff Property Owners Association. Upon remand from the court, the Plan was divided into three separate, but related, Rank III Sector Development Plans in order to address the diverse needs and issues within each planning area. Language related to the overall development of the plan area, including analysis of existing conditions ~~and consideration~~ and general goals and policies for land use, transportation, and open space were ~~moved separated~~ into the companion “Volcano Mesa” amendment to the West Side Strategic Plan, the Rank II Area Plan that governs Albuquerque’s West Side.

The City sought input from stakeholders and property owners in a renewed planning process and used that input to guide the development of the three plans that were based on the original planning effort but more specifically tailored to the goals and vision of affected stakeholders and property owners of each area. The three plans can generally be described as follows: the Volcano Cliffs Sector Development Plan (VCSDP), which includes the areas where small lots are individually owned and lower-density residential development will predominate; the Volcano Heights Sector Development Plan (VHSDP), which includes larger tracts of land designated a Major Activity Center, ~~with opportunities for where~~ a mix of employment, commercial, and high- and medium-density residential development opportunities exist, and the Volcano Trails Sector Development Plan (VTSDP), which is primarily designated for medium-density, single-family residential development held in consolidated ownership, with larger tracts being developed by master developer Longford Homes.

Chapter 1

Introduction

Regulatory Tool. The City of Albuquerque uses a system of ranked plans, starting with the Rank I Albuquerque / Bernalillo County Comprehensive Plan, which sets the vision, goals, and overall policies from a City-wide perspective. There are also lower-ranked plans that must comply with the intent, policies, and goals of higher-ranked plans. Rank II Plans, such as the West Side Strategic Plan or the Arroyos Facility Plan, are exclusively policy documents that provide more detail and give more direction about large but distinct areas within Albuquerque. Rank III Plans, including Sector Development Plans (SDP) such as this Volcano Trails SDP, take the most detailed look at smaller areas and can include both policy (i.e. direction) and regulations (i.e. law).

This Rank III VTSDP is intended to further and comply with the policies and intents of the following adopted plans:

Relevant Ranked Plans	Area	Policy / Regulation
Rank I: Albuquerque / Bernalillo County Comprehensive Plan	Entire Albuquerque Area	Policy
Rank II: Area / Facility Plans <ul style="list-style-type: none"> • Westside Strategic Plan • Facility Plan for Arroyos • COA Major Public Open Space Facility Plan • Trails and Bikeways Facility Plan • Facility Plan for Electric Service Transmission and Subtransmission Facilities 	Relevant Albuquerque Areas, including Volcano Mesa	Policy
Rank III: <ul style="list-style-type: none"> • Northwest Mesa Escarpment Plan (NWMEP) 	Specific Area	Policy / Regulation

TABLE 1, RELEVANT EXISTING RANKED CITY PLANS

The **Volcano Trails** Rank III Sector Development Plan provides policy and regulatory guidance for development within its boundaries. Its adoption sets land-use, design, and development standards for the area to ensure development outcomes that are more predictable for the community and affected stakeholders. Its strategies are based on implementing the goals and policies of the West-side Strategic Plan “Volcano Mesa” amendment, which identifies the Volcano Trails area as suitable for primarily residential development at a mix of densities and for small areas of neighborhood-serving, mixed-use and commercial uses.

Because the VTSDP and the NWMEP are both Rank III plans with overlapping boundaries, where a policy or regulation conflicts, the VTSDP prevails, unless otherwise stated in this Plan. In areas with overlapping boundaries, where one plan is silent, the policies/regulations of the other plan prevail.

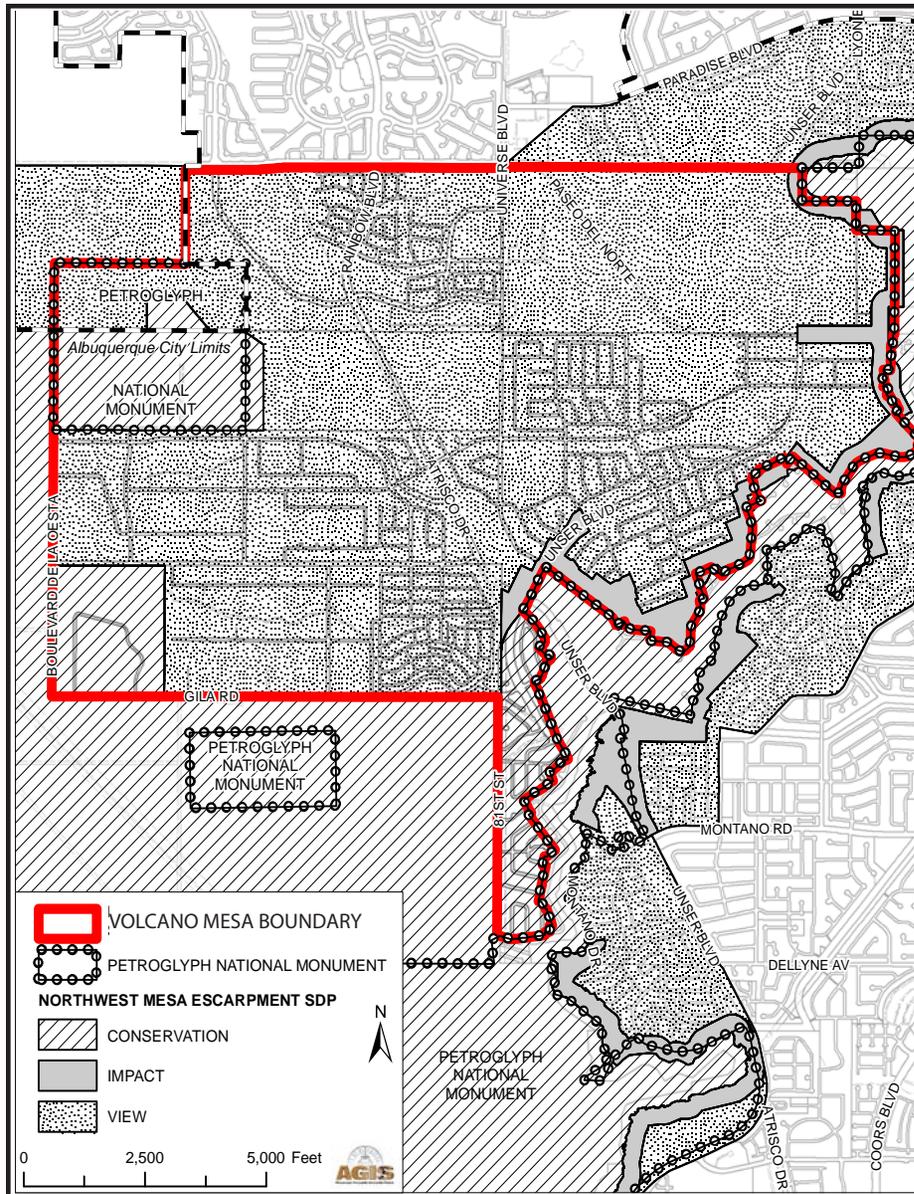


Exhibit 9, **Appendix E**-Northwest Mesa Escarpment Plan Boundary

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CHAPTER 2

plan goals

Chapter 2

Goals for Volcano Trails

The Plan's zoning and development standards are intended to create a context-sensitive development that realizes the policies established by the WSSP Volcano Mesa amendment.

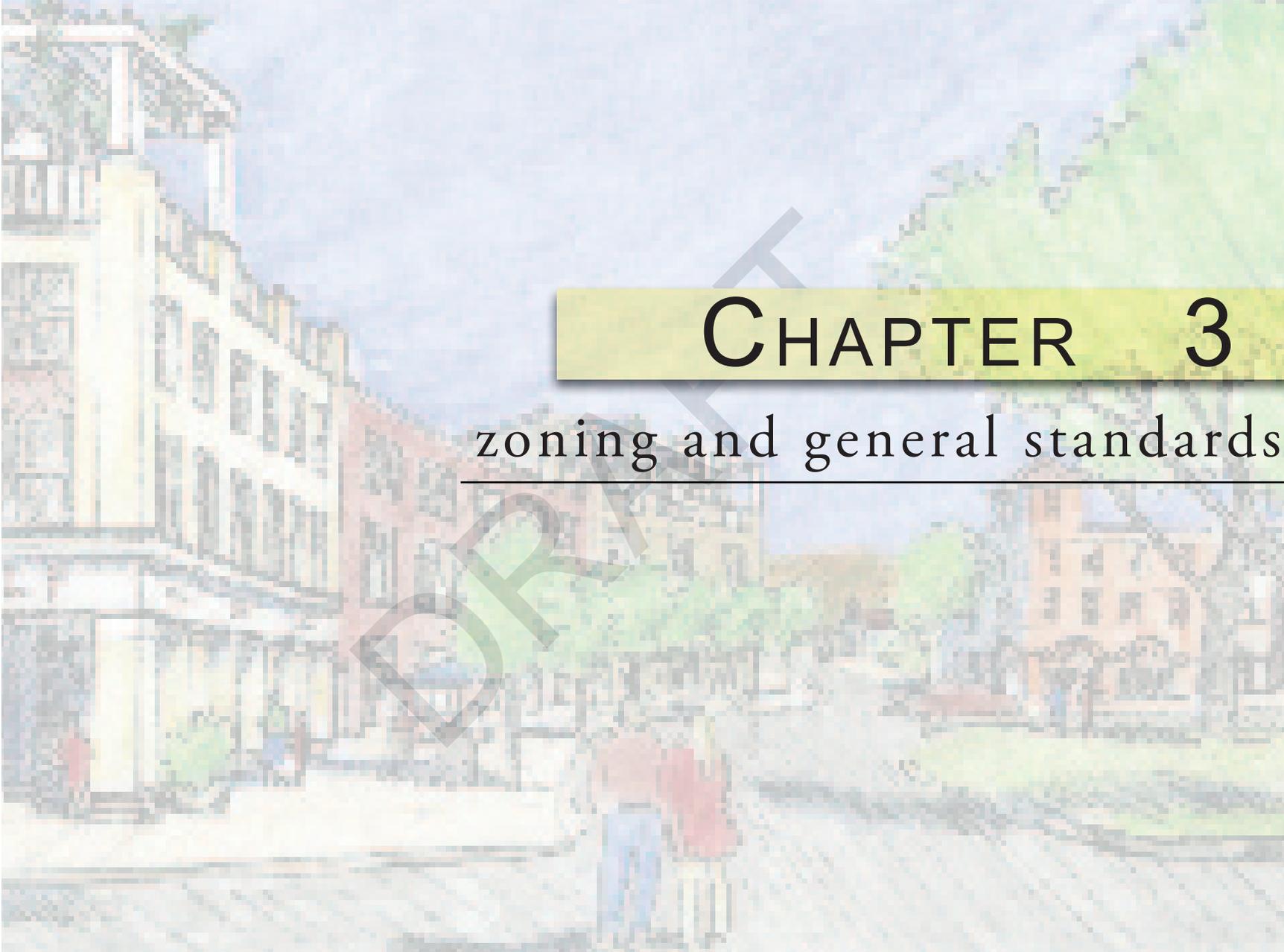
- 1. Promote Residential Diversity.* In order to encourage a range of housing opportunities for various ages and incomes, the Trails development will include apartments, townhouses, small-lot, and medium-lot single-family residential development to attract a diverse population.
- 2. Create Healthy Residential Neighborhoods.* Street and courtyard facing residences—with entrances and windows facing pedestrian paths—support neighborhoods and improve safety. Street-facing buildings keep “eyes on the street” and deter unwanted behavior. Furthermore, when paired with calm streets, street-facing architecture can encourage neighbors to come together and socialize. Blank walls, garage doors, and parking lots have deleterious effects on streets (and parks) and shall be avoided or mitigated. [327]
- 3. Create Neighborhood Retail Centers.* ~~Encourage retail, commercial, and community services homes to be located within walking distance of homes.~~ Convenience stores and other neighborhood retail, like a grocery store, drugstore and hardware store, are encouraged within Neighborhood Centers ~~to bring retail, commercial, and community services within walking distance of homes.~~
- 4. Ensure Quality Design and Sensitivity to Climate.* The quality of individual buildings contributes to the sense of place and permanence. These architectural and landscape standards apply to individual buildings, lighting, utilities, walls, and landscape design, with the intent of creating a high-quality built environment with lasting character that draws on southwestern regional styles and traditions. Individual design expression and the diverse character of the land-use districts can all flourish within an overall framework of quality. ~~Architectural elements respond to unique southwestern climatic conditions. This means conserving water and providing shade as relief from harsh sunlight and heat.~~ Building design, architectural elements, drainage, and site design should work together to conserve and harvest water, provide shade as relief from harsh sunlight and heat, and offer protection from seasonal winds and rain.

5. *Create Neighborhood Edge/Transitions from Open Space areas and the Petroglyph National Monument.* Landscaping and roads are transitions from open space and the Petroglyph National Monument to the built environment. Roads or other buffer areas should be planned as a transition from Major Public Open Space and the Petroglyph National Monument to residential or commercial development. ~~Landscaping, buildings, and roads are transitions from open space and the Petroglyph National Monument to the built environment. Roads or low density one story residential buildings shall abut the open space.~~ Building colors should be in harmony with the desert palette. Preferred fencing is stucco walls or “coyote fencing.” Native vegetation should be used wherever landscaping is visible to the public. [326]

6. *Protect important views, vistas, and view corridors.* Important views from locations within Volcano Trails to the Rio Grande basin, across the city of Albuquerque, and to the Sandia Mountains should be protected. Building height limits, site layout, and street orientation are all important tools to protect views into, out of, and through this unique area in perpetuity for nearby residents as well as all Albuquerque citizens and visitors. As development within the Trails will be visible from most of the City of Albuquerque, care should be taken to achieve non-visually intrusive development, especially in the lower-density residential areas adjacent to the Petroglyph National Monument. To minimize the visual impact of development, predominant colors used on structures should blend with the natural colors of the mesa.

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CHAPTER 3

zoning and general standards

Chapter 3

This chapter establishes the framework necessary to implement the Plan. It establishes SU-2 zoning for **most** properties within the Plan boundary and the development review process associated with the SU-2 zones. Not all properties are rezoned with this Plan. The areas **with development pre-existing or approved prior to the adoption of this Plan or** that were exempted from the development moratorium during the planning process retain their existing RD zoning.

- **Section A-Zoning in this Chapter** establishes a framework for future growth that encourages walkable, transit-supportive districts, while also maintaining many of the area's scenic qualities and conserving unique ecological and archeological assets.
- **Section B-General Standards** in this Chapter contains additional standards that apply across different zones. Properties zoned SU-2/VTVC, SU-2/VTUR, SU-2/VTSL, SU-2/VTML, and SU-2/VTRD must comply with the provisions of the General Standards section as applicable. [407]

Zoning and General Standards

2. Development Review Process.

It is important that the adoption procedures for development include a streamlined review and approval process when consistent with the Plan standards as well as provide flexibility to amend regulatory requirements. This process is illustrated in **Table 2-1** below. When there is any inconsistency with other City regulations and standards, the regulations and standards contained in the Plan take precedence ~~over those other City regulations and standards.~~

Table 2-1, Development Approval Process describes the development review and approval process for properties located within the Plan area.

Development Zone	Development Approval Process	Plan Type
SU-2 Village Center/SU-2 VC	DRB with Planning Director	Commercial Master Plan for Development
SU-2 Trails Urban Residential/SU-2 UR	DRB	No additional plan required
SU-2 Small Lot/ SU-2 SL	DRB	Site Plan for Subdivision
SU-2 Residential Developing Area/SU-2 RD	per RD zone, City Zoning Code	per RD zone, City Zoning Code
SU-2 Trails Residential Developing Area/SU-2 TRD	DRB	Site Plan for Subdivision
SU-2 Large Lot/SU-2 LL	DRB	Site Plan for Subdivision
SU-2 SU-1 Open SpaceArea/SU-2 SU-1 Open Space	DRB	Site Plan for Building Permit

TABLE 2, DEVELOPMENT APPROVAL PROCESS

Chapter 3

Zoning and General Standards

Permitted **Deviations Modifications.**

While the regulations adopted by the Plan attempt to address the varied application possibilities throughout the Plan area, no regulation can predict the range of unique conditions that may arise during its implementation. As such, **deviations modifications** from the standards are permitted, as described **below in Table 2 Modifications.**

Unless otherwise restricted within this Plan, deviations from dimensional standards shall be handled as follows:

Minor: Deviations from any dimensional standard of up to 10% or from any non-dimensional standard may be approved by the Planning Director or his/her designee.

Major: Any deviations of 10-20% from any dimensional standard or to permitted and prohibited uses shall be reviewed by the EPC via the site development plan approval process; deviations of 20% or more are not allowed. In order for the EPC to grant the deviation(s) and approve the site development plan, the applicant must demonstrate the following:

- 1) the original standard(s) cannot be reasonably met without substantial hardship due to the uniqueness of the site, and
- 2) applicable goals and policies of the Volcano Trails Sector Development Plan are still met, even with the proposed deviation(s). [341]

Type of Modification	Definition	How Approved
(a) Minor	Modification from dimensional standards by no more than 10%.	Administratively by Planning Director
(b) Major	Any modification that is not considered a "minor" modification.	EPC
(c) Other	Modifications related to non-dimensional standards, i.e. color, and landscape.	Administratively by Planning Director
	Modifications to permitted and prohibited uses	EPC

Table 2, Modifications

[341]

Zoning and General Standards

Zoning Intention and Character

The development standards for each of the zones are located in the following section **A-Zoning** in this Chapter of this document.

- **SU-2 Volcano Trails/Village Center (VTVC).** Village Centers will put local retail, conveniences, schools, and a “sense of place” within walking distance of most homes. Besides shops, each Village Center will include housing, a small park (parks smaller than 2 acres shall be privately owned and maintained), and civic uses such as daycare and community facilities. [329]
- **SU-2 Volcano Trails/Urban Residential (VTUR).** Urban Residential development allows a variety of urban housing types within a network of livable, pedestrian-friendly streets, including courtyard housing, loft apartments, patio homes, townhouses, duplexes, and detached single-family homes on small lots.
- **SU-2 Volcano Trails/Suburban Residential–Small Lot (VTSL).** Suburban Residential–Small Lot development allows typical modern suburban lot sizes but with rear access alleys, houses moved up to the sidewalk, front porches and other features to create a more pedestrian-friendly environment.
- **SU-2 Volcano Trails/Suburban Residential–Medium Lot (VTML).** Suburban Residential–Medium Lot development allows homes on larger lots (+11,000 square feet), respecting the existing platting, built in a way that protects the natural environment, preserves significant view corridors, and contains visible private open space.
- **SU-2 Volcano Trails Residential Developing Area (VTRD).** Residential Developing Area allows for RD zoning and approval process per City Zoning Code §14-16-2-14. Lots without alleys shall be limited to a minimum lot size of 5000 square feet. On alley lots minimum lot size shall be 3000 square feet. All development in the Volcano Trails/RD zone shall meet applicable requirements in the General Standards section.
- **Residential Developing Area (RD).** This area was exempted from the planning process and retains its existing zoning and is subject to the regulations of the RD zone per the City Zoning Code §14-16-2-14.
- **SU-2 Volcano Trails Open Space.** ~~Open Space areas are dedicated City property.~~ This area includes proposed and existing privately owned and maintained (i.e. Homeowners Association-owned and maintained) parks, open space, and trails, which meet the developer’s Off-site Open Space dedication requirements. [326] [399]

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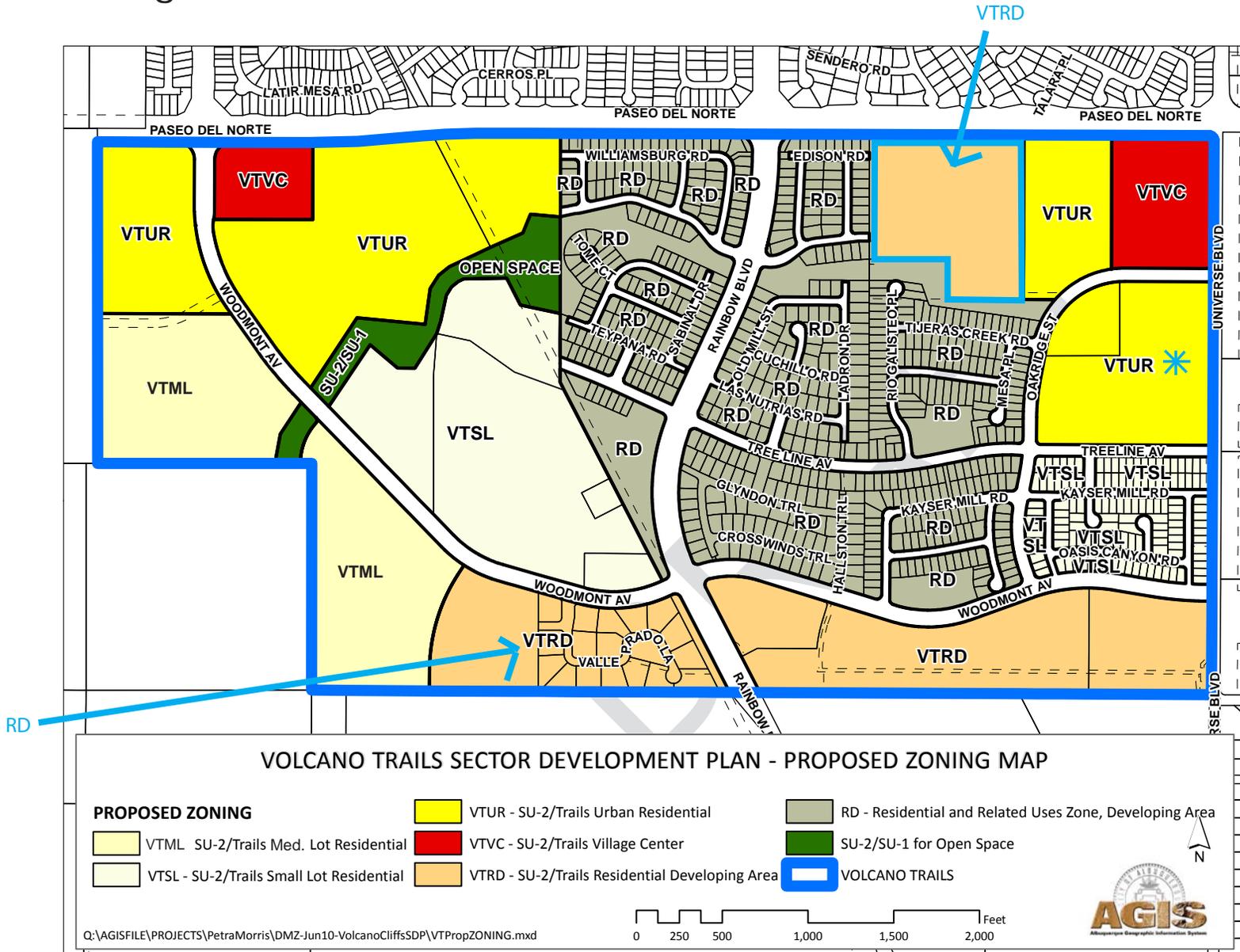
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A – ZONING

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Chapter 3

A - Zoning



[Revise graphic: delete “proposed” from title, replace “SU-2/SU-1 for Open Space” with “SU-2 Volcano Trails Open Space”, insert “SU-2” before “RD - Residential and Related Uses Zone, Developing Area” in the legend, replace VTRD zoning with RD in Unit 2, Tract 8 (currently the VTRD tract west of Rainbow, add an asterisk to VTUR south and east of Oakridge, show 200’ and 500’ buffers from escarpment on VTML, show unplatted RD in Unit 2, Tract 1 as VTRD.]

[332]

[333]

[368]

Exhibit 10-7, Zoning and Land Use Plan Established by the Volcano Trails Sector Development Plan

Pre-existing Standards for Development. Previously Omitted Standards: The following regulations were established for Unit 2 and Phase 1 development prior to the adoption of this Plan. Where there is a conflict between these requirements ~~in this section~~ and the requirements in ~~the~~ other sections of this ~~regulation~~ Plan, ~~these requirements this section~~ shall prevail. [342]

1. Subdivisions and site development plans approved prior to the adoption of this Plan are subject only to the requirements approved at the time of their approval. This includes the Cantata @ the Trails (shown with an asterisk on **Exhibit 10**) approved by the DRB in October 2007.
2. The privately owned and maintained open space/parks zoned SU-2 Volcano Trails Open Space ~~OS-4 park in the open space area may be amended so as to accommodate a 3-acre park area without decreasing the amount of dedicated open space shall count toward the developer's open space dedication requirements.~~ [332]
3. ~~Street C, now on the south boundary of Unit 2-Tract 11, shall be moved to the proposed City Open Space area and connect from Rainbow to the middle school site. Street C shall be removed to the west of this point.~~ A new street connection shall be ~~shown~~ provided from Woodmont to the North Geologic Window ~~adjacent to the open space shown in the land-use plan to allow maintenance access for City vehicles.~~ The ultimate location is to be determined via coordination between the City and the developer. [342]
4. The ultimate location of ~~the street to serve the APS schools south of the Plan area~~ ~~Street D~~ may be changed based on the size and location of park / school site ~~in Unit 2-Tract 12 and Unit 3-Tract 6.~~ [342]
5. A new street connection shall be shown as a dotted line from Woodmont west to private property in Bernalillo County that is currently landlocked per agreement with the developer. [342]

3. The Zones. The following section contains the development standards for new SU-2 zones established by the Plan. ~~The section is divided into two parts, the zones and the general standards. The SU-2 RD and SU-2 SU-1 Open Space zones are regulated by the City Zoning Code with the following exceptions:~~ [340]

SU-2 VTVC

Village Center Zone

Mixed-use areas at the neighborhood scale extend goods and services to locations that may not be able to support major retail, but might support small offices, shops, community facilities, and/or residential developments with ground floor home occupations, including office, retail, and service activities. Mixed-use areas may be used to create small retail centers to provide a “sense of Place” for residential neighborhoods. Neighborhood Mixed Use zoning provides the opportunity for diverse housing retail, small parks, and civic facilities to create vibrant communities.

A. GENERAL

Permitted Uses

1. R-T, R-G, R-2, RC, O-1, C-1, with the following additions and exceptions:
 - a. ~~Accessory units~~ A minor second dwelling unit up to 650 square feet shall be permitted ~~except in the front yard.~~ [8]
 - b. Parking structures shall be permitted with ground level uses along the street façade.
 - c. Single-family development is prohibited.
 - d. Gated and/or walled developments are prohibited.
 - e. Drive-in restaurants, drive-up service windows, parking lots, and/or off-premise signs are not permitted.
 - f. On-premise signs are permitted as regulated in the C-1 zone per City Zoning Code §14-16-2-16(A)(11) with the following exceptions and additions:
 - i. Signs may project more than one foot into the right-of-way per City Encroachment Agreement requirements.
 - ii. Height of free-standing signs shall not exceed 8 feet.
 - iii. See **General Standards A and B** for additional requirements.

g. Vehicle sales, rental, service, repair and storage shall be in a completely enclosed building or located completely behind a building.

h. Conditional uses in R-T, R-G, R-2, O-1, C-1 shall be conditional uses, except as prohibited above.

Development Densities

1. Allowable development densities are as follows:
 - a. Minimum: 0.30 FAR
 - b. Maximum: ~~None~~ 1.5 FAR [348]
 - c. Residential Densities are as follows.
 - i. Minimum ~~Average~~: 20 du/acre
 - ii. Maximum ~~Average~~: 40 du/acre [346]
 - iii. Residential densities apply to gross developable area for residential uses, exclusive of site constraints such as undevelopable land and parks and inclusive of streets and parking. ~~Undevelopable land shall be defined as land that is not suitable for cut or fill and includes, but is not limited to, significant rock outcroppings as defined within this Plan.~~ [349]
2. See **General Standards A. Density** for calculation method.



Lot sizes

1. Lot sizes shall be limited as follows:
 - a. **Minimum:** None
 - b. **Maximum:** 300 feet wide and 300 feet deep [411]
 - c. Lots may exceed 90,000 square feet if a pedestrian street a minimum of 12 feet wide connects a minimum of two public streets through the lot at least every 300 feet measured along the street façade.

B. BUILDING PLACEMENT, FORM, AND DESIGN

Setbacks and Building Frontage

1. Building setbacks are measured from the property line and shall be as follows:
 - a. Front setback: No minimum
15 feet maximum
 - i. Exception. 50% of the building frontage may be setback an additional 20 feet for a landscaped courtyard or plaza.
 - b. Side setback:

Attached:	None
Non-attached:	5 feet minimum
 - c. Rear setback:

Without alley:	15 feet minimum
With alley:	5 feet minimum

2. Street Frontage Requirements:

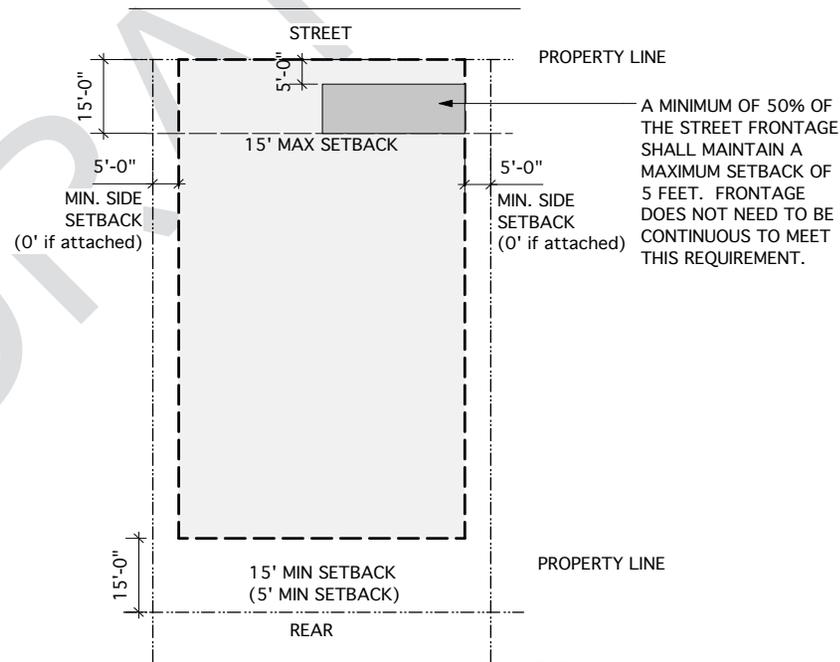
For lots with 40 linear feet or more of street frontage:

- a. A minimum of 50% of building façade shall maintain a setback of 5 feet. Street frontage need not be continuous.
- b. Landscaped plazas and/or passages may be used in lieu of building for up to 50% of the available frontage.

3. See **General Standards B** for additional requirements.

Height

1. Building Height limits area as follows:
Maximum: 35 feet
2. See **General Standards A** and **B** for additional requirements.



BUILDING PLACEMENT DIAGRAM

[NOTE: Diagram to be revised to add hatching. 354]

Building Articulation

1. The following standards shall apply:
 - a. Transparency: At least 25% of the ground floor façade of street-facing elevations shall be comprised of windows and/or entrances.
 - i. Exception: Ground-level, street-facing façades that are not the primary entrances and are located on streets classified as Arterial or higher may utilize Window Cases located a minimum of 20 feet on center per Planning Director (or his/her designee) approval. See **General Standards B.5.** for additional requirements. [353]
 - b. Residential garages shall be setback from the front façade. See **General Standards B.8.**
 - c. A minimum of 50% of the street frontage shall be accompanied by portals, verandas and/or arcades. See **General Standards B.7.**
2. See **General Standards B** for additional requirements.

C. LANDSCAPE REQUIREMENTS

1. The following requirements shall apply:
 - a. Shall meet city standard landscape requirements for non-residential development per City Zoning Code §14-16-3-10.
 - b. Plants shall be from the **General Regulation B Plant List A and/or Plant List B** (see **Chapter 4 General Regulation B** for plant lists).
 - c. Walls shall be limited to 6 feet in height and within 3 feet of the front yard setback. ~~Walls may be up to 4~~

foot high within the front yard setback of residential buildings. See **General Standards A.** for additional requirements. [352]

2. See **General Standards A.** and **C.** for additional requirements.

D. USABLE OPEN SPACE REQUIREMENTS

1. Multifamily dwellings:
 - Private: 60 square feet/du minimum
 - Shared: 80 square feet/du minimum
2. Off-site Open Space dedication requirements are met by existing or proposed parks and trails.
3. Plaza or Courtyard Public Space. All commercial development over 2 acres shall include a 1,000 square feet minimum privately owned and maintained public space adjacent to retail/office areas. Public space shall be hardscaped, with seating and shading covering a minimum of 50% of the area. Shade coverage may be trees or other shading devices. Public space shall be linked to the main entrance of adjacent structures by a public sidewalk and have pedestrian-scale lighting and trash receptacles.
4. See **General Standards D.** for additional requirements.

E. PARKING REQUIREMENTS

1. Parking Calculations are as follows:
 - a. Residential: 1/unit minimum
 - b. Non-Residential: 1/1000 square feet minimum
2. See **General Standards E.** for additional requirements.



A. GENERAL

Permitted Uses

1. R-T and R-2, with the following additions and exceptions:

a. R-T development requires a minimum lot size of 20 by 90 feet. [358]

~~b. a. Accessory units~~ A minor second dwelling unit up to 650 square feet shall be permitted ~~except in the front yard.~~ [8]

~~c. b.~~ Parking structures shall be permitted underground.

~~d. c.~~ Gated and/or walled developments are prohibited. [356]

Development Densities

1. Allowable development densities are as follows:

a. Minimum: 10 du/acre

b. Maximum: 20 du/acre

c. Residential densities apply to gross developable area for residential uses, exclusive of site constraints such as undevelopable land and parks and inclusive of streets and parking. Undevelopable land shall be defined as land that is not suitable for cut or fill and includes, but is not limited to, significant rock outcroppings as defined within this Plan. [349]

2. See **General Standards A. Density** for additional requirements.

Lot sizes

1. The following requirements shall apply:

a. On lots without alleys, minimum lot size shall be 5000 square feet.

b. On alley lots minimum lot size shall be 3000 square feet.

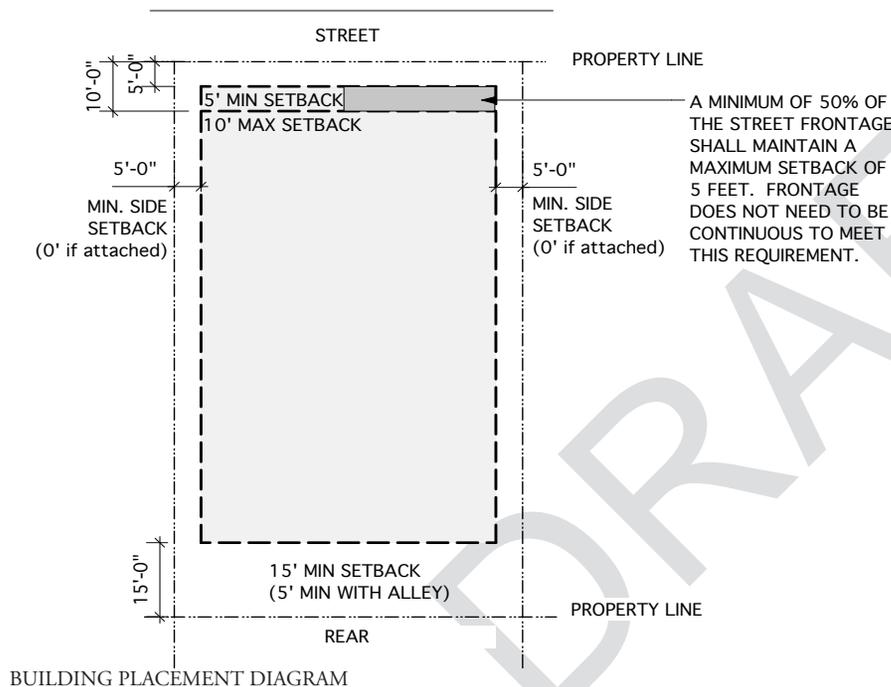
SU-2 VTUR

Urban Residential Zone

The Urban Residential zone provides a diverse range of mixed density housing in order to suit a range of lifestyles in a pedestrian oriented residential environment.

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[NOTE: Diagram to be revised to add hatching. 354]



B. BUILDING PLACEMENT, FORM, AND DESIGN

Setbacks and Building Frontage

1. Building setbacks are measured from the property line and shall be as follows:

- a. Front setback: 5 feet minimum
Without a porch: 15 foot maximum
With a porch: 10 foot maximum

- b. Side setback:
Attached: None
Non-attached: 5 feet minimum

- c. Rear setback:
Without alleys: 15 feet minimum
With alleys: 5 feet minimum

2. Street Frontage Requirements for lots with 40 linear feet or more of street frontage:

- a. A minimum of 50% of building façade shall maintain a front setback of 5 feet. Street frontage need not be continuous.

- b. Landscaped courtyards and/or passages may be used in lieu of building for up to 25% of the available frontage.

3. See **General Standards B.** for additional requirements.

Height

1. Building Height limits area as follows:

Maximum: 35 feet

2. See **General Standards A.** and **B.** for additional requirements.



Building Articulation

1. The following articulation standards shall apply to buildings in the SU-2 Trails/UR zone:
 - a. Transparency: At least 25% of the area of the street-facing elevations shall be comprised of windows and/or entrances. **Ground-level, street-facing façades that are not the primary entrances and are located on streets classified as Arterial or higher may utilize Window Cases located a minimum of 20 feet on center per Planning Director (or his/her designee) approval. See General Standards B.5. for additional requirements. [353]**
 - b. Residential garages shall be setback from the front façade. See **General Standards B.8.** for additional requirements.
 - c. Each detached, single-family dwelling unit shall address the street with one of the following three options. In the case of a developer constructing 3 or more detached, single-family dwelling units, at least 2 of every 3 shall incorporate a porch.

Options:

- a porch or stoop at least 5 feet in depth
- a walled courtyard with entrance easily visible from the public right-of-way
- a window on the front façade that directly faces the street

2. See **General Standards B.** for additional requirements.

C. LANDSCAPE REQUIREMENTS

1. The following landscape requirements shall apply to all development in the UR zone:
 - a. One tree and 50% vegetative cover in front of all single family lots.
 - b. All non-single-family development shall follow City Standard Landscaping requirements per City Zoning Code §14-16-3-10.
 - c. Plants shall be from the **General Regulation B – Plant List A and/or Plant List B (see Chapter 4 General Regulation B** for plant lists).
 - d. Walls shall be per City Zoning Code §14-16-3-19. See **General Requirements A.** for additional requirements. ~~Walls shall be limited to:
— i. 4 feet maximum in front yard setback;
— ii. Rear Walls are per City Standards [357]~~
2. See **General Standards A.** and **C.** for additional requirements.

D. USABLE OPEN SPACE REQUIREMENTS

1. Multifamily dwellings:
 - Private: 60 square feet/du minimum
 - Shared: 80 square feet/du minimum
2. Off-site Open Space dedication requirements are met by existing or proposed parks and trails.
3. See **General Standards D.** for additional requirements.

E. PARKING REQUIREMENTS

1. Parking Calculations are as follows:
 - a. Residential: 1/du minimum
2. See **General Standards E.** for additional requirements.

SU-2 VTRD

Residential Developing Area Zone

The Volcano Trails Residential Developing Area Zone provides a predominantly residential area, including a mixture of dwelling unit types, with incidental, related commercial activities.

A. GENERAL Permitted Uses

1. RD per City Zoning Code §14-16-2-14 except for the following:
 - a. A minor second dwelling unit up to 650 square feet shall be permitted except in the front yard.
 - b. Gated and/or walled developments are prohibited.

Lot sizes

1. The following requirements shall apply:
 - a. On lots without alleys, minimum lot size shall be 5000 square feet.
 - b. On alley lots minimum lot size shall be 3000 square feet.

B. BUILDING PLACEMENT, FORM, AND DESIGN

Building Articulation

1. The following articulation standards shall apply to buildings in the SU-2 Trails/UR zone:
 - a. Transparency: At least 25% of the area of the street-facing elevations shall be comprised of windows and/or entrances.
 - b. Residential garages shall be setback from the front façade. See **General Standards B. 8.** for additional requirements.
 - c. Each dwelling unit shall have a porch or stoop address the street with one of the following three options. In the case of a developer constructing 3 or more dwelling units, at least 2 of every 3 shall incorporate a porch.
Options:
 - a porch or stoop at least 5 feet in depth
 - a walled courtyard with entrance easily visible from the public right-of-way
 - a window on the front façade that directly faces the street
2. See **General Standards B.** for additional requirements.



C. LANDSCAPE REQUIREMENTS

1. The following landscape requirements shall apply to all development in the VTRD zone:
 - a. One tree and 50% vegetative cover in front of all single family lots.
 - b. All development that is not single-family residential shall follow City Standard Landscaping requirements per City Zoning Code §14-16-3-10.
 - c. Plants shall be from the **General Regulation B** – Plant List A and/or Plant List B (see **Chapter 4 General Regulation B** for plant lists).
 - d. Walls shall be per City Zoning Code §14-16-3-19. See **General Requirements A.** for more requirements.
 - e. Off-street pedestrian connections via a landscaped parkway with a trail on one side shall be permitted in lieu of street sidewalks.
2. See **General Standards C.** for additional requirements.

D. USABLE OPEN SPACE REQUIREMENTS

1. No additional requirements to RD.

E. PARKING REQUIREMENTS

1. No additional requirements to RD.

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SU-2 VTSL Small Lot Zone

The Small Lot zone consists of standard residential lot sizes, single family type houses moved up to the sidewalk with front porches, garages setback from the main façade and other features to create a more pedestrian friendly environment.

A. GENERAL Permitted Uses

1. R-1 with the following additions and exceptions:
 - a. ~~Accessory units~~ A minor second dwelling unit up to 650 square feet shall be permitted **except in the front yard.** [8]
 - b. Multiple single-family houses are permitted on a single lot.
 - c. Gated and/or walled developments are prohibited.

Development Densities

1. Allowable development densities are as follows:
 - a. Minimum 1.5 du/acre.
 - b. Maximum 10 du/acre.
 - c. Residential densities apply to gross developable area for residential uses, exclusive of site constraints such as undevelopable land and parks and inclusive of streets and parking. **Undevelopable land shall be defined as land that is not suitable for cut or fill and includes, but is not limited to, significant rock outcroppings as defined within this Plan.** [349]
2. See **General Standards A. Density** for additional requirements.

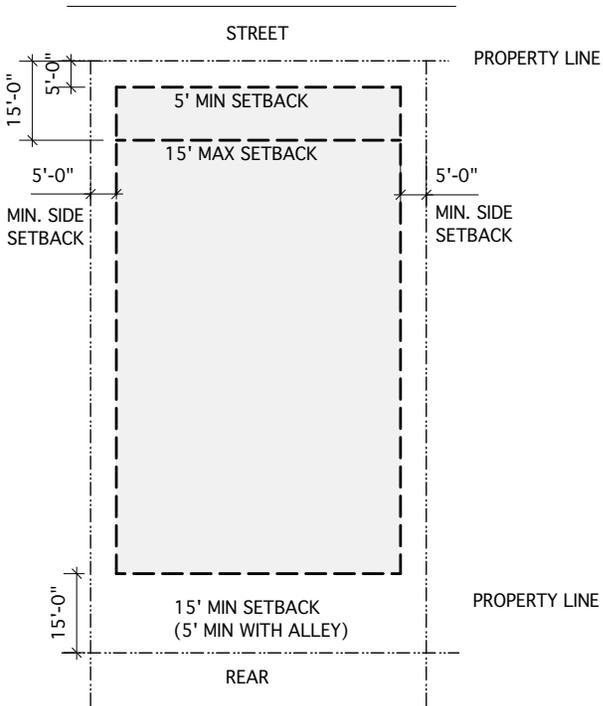
Lot sizes

1. The following requirements shall apply:
 - a. On lots without alleys minimum lot size shall be 5000 square feet.
 - b. On alley lots minimum lot size shall be 3000 square feet.

B. BUILDING PLACEMENT, FORM, AND DESIGN

Setbacks and Building Frontage

1. Building setbacks are measured from the property line and shall be as follows:
 - a. Front setback: 5 feet minimum
~~15 feet maximum~~
 Without a porch: 15 foot maximum
 With a porch: 10 foot maximum
 - b. Side setback: 5 feet minimum
 - c. Rear setback:
 - Without alleys: 15 feet minimum
 - With alleys: 5 feet minimum
2. Additional Setback Requirements:
 - a. For Suburban Residential–Small Lot zoned parcels in Units 1 and 2, lots may have a zero foot (0') side yard setback on one side.
3. See **General Standards B.** for additional requirements.



BUILDING PLACEMENT DIAGRAM

Height

1. Building Height limits area as follows:
 Minimum: None
 Maximum: 26 feet

2. See **General Standards A.** and **B.** for additional requirements.

Building Articulation

1. The following requirements shall apply:
 - a. Transparency: At least 25% of the area of the street-facing elevations shall be comprised of windows and/or entrances.

- b. Residential garages shall be set back from the front façade. See **General Standards B.8** for additional requirements.
- c. Each dwelling unit shall have a porch or stoop address the street with one of the following three options. In the case of a developer constructing 3 or more dwelling units, at least 2 of every 3 shall incorporate a porch.

Options:

- a porch or stoop at least 5 feet in depth
- a walled courtyard with entrance easily visible from the public right-of-way
- a window on the front façade that directly faces the street

- d. In all Suburban Residential–Small Lot zoned parcels in Units 1 and 2, garages may be either off alleys or accessed via a side drive where one of the garage sides abuts the back yard setback or is attached to the back of the house.

2. See **General Standards B.** for additional requirements.

C. LANDSCAPE REQUIREMENTS

1. The following requirements shall apply:
 - a. One tree and 50% vegetative cover in front of all single-family lots.

- b. Plants shall be from the **General Regulation B – Plant List A** and/or **Plant List B** (see **Chapter 4 General Regulation B** for plant lists).

- c. Walls shall be per City Zoning Code §14-16-3-19. See **General Requirements A.** for additional requirements.

~~Walls shall be limited to:~~

- ~~i. 4 feet maximum in front yard setback.~~
- ~~ii. Rear Walls are per City Standards [361]~~

2. See **General Standards A.** and **C.** for additional requirements.

D. USABLE OPEN SPACE REQUIREMENTS

~~1. Multifamily dwellings:~~

~~Private: 600 square feet/du minimum~~

- ~~1. 2.~~—Off-site Open Space dedication requirements are met by existing or proposed parks and trails.

- ~~2. 3.~~—See **General Standards D.** for additional requirements.

E. PARKING REQUIREMENTS

1. Parking Calculations are as follows:
 - a. Residential: 1/du minimum.

2. See **General Standards E.** for additional requirements.

SU-2 VTML

Medium Lot Zone

The Medium Lot zone consists of larger residential lot sizes with increased front yard setbacks, height limitations and other features to reduce visual impact.

A. GENERAL

Permitted Uses

1. R-1 with the following additions and exceptions:
 - a. ~~Accessory units~~ A minor second dwelling unit up to 650 square feet shall be permitted **except in the front yard.** [8]
 - b. Gated and/or walled developments are prohibited.

Development Densities

1. Allowable development densities are as follows:
 - a. Maximum: 3 du/acre **for parcels within 200 feet of the Petroglyph National Monument**
 - b. Maximum: 8 du/acre for parcels located **more than completely outside of 200 feet** from the Petroglyph National Monument
2. See **General Standards A. Density** for additional requirements.

Lot sizes

1. Lot sizes shall be limited as follows
 - a. Lots ~~within up to~~ 200 feet of the Petroglyph National Monument or Major Public Open Space shall be a minimum of 11,000 square feet.
 - b. Lots ~~more than within~~ 200 feet up to 500 feet from the Petroglyph National Monument or Major Public Open Space shall be a minimum of 6,000 square feet. [369]
 - c. Lots more than 500 feet from the Petroglyph National Monument or Major Public Open Space shall be a minimum of 5000 square feet.

B. BUILDING PLACEMENT, FORM, AND DESIGN

Setbacks and Building Frontage

1. Building setbacks are measured from the property line and shall be as follows:
 - a. Front setback: 5 ~~10~~ feet minimum
 Without a porch: 15 foot maximum
 With a porch: 10 foot maximum
 - b. Side setback: 5 feet minimum
 - c. Rear setback:

Without alley:	15 feet minimum
With alley:	5 feet minimum
2. **General Standards B.** for additional requirements.



Height

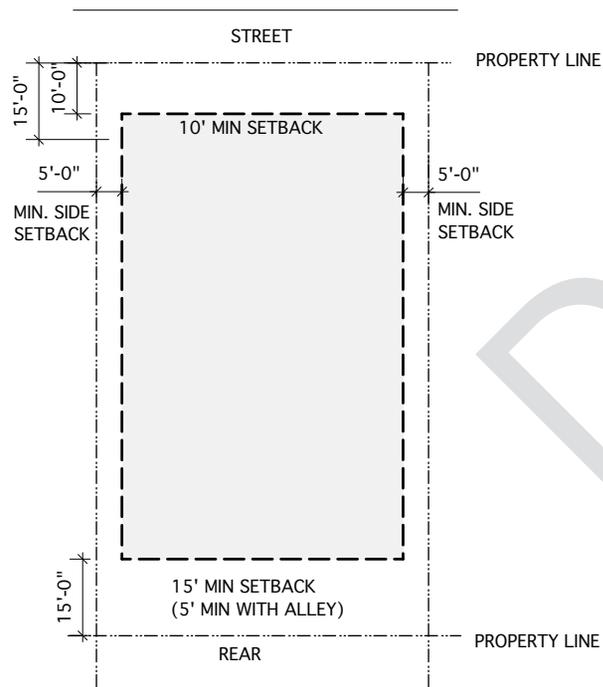
1. Building Height limits area as follows:

Minimum: None

Maximum: 18 feet. A height allowance up to 26 feet is permitted for a maximum of 50% of the building footprint.

2. See **General Standards A.** and **B.** for additional requirements.

Building Articulation



BUILDING PLACEMENT DIAGRAM

1. In Unit 2-Tract 8, the backs of houses shall not face the Major City Open Space to the immediate south. In addition, on lots adjacent to the Northern Geologic Window to the north of the City Open Space, walls facing the Northern Geologic Window open space shall be view walls. [370]

2. The following standards shall apply:

a. Transparency: At least 25% of the area of the street-facing elevations shall be comprised of windows and/or entrances.

i. Exception: Non-primary street facing elevations on Arterials or higher may satisfy this requirement with window cases. See General Standards.

b. Residential garages shall be setback from the front façade. See **General Standards B.8.** for additional requirements.

c. Each dwelling unit shall have a porch or stoop address the street with one of the following three options. In the case of a developer constructing 3 or more dwelling units, at least 2 of every 3 shall incorporate a porch.

Options:

- a porch or stoop at least 5 feet in depth
- a walled courtyard with entrance easily visible from the public right-of-way
- a window on the front façade that directly faces the street

3. See **General Standards B.** for additional requirements.

C. LANDSCAPE REQUIREMENTS

1. The following requirements shall apply:
 - a. One tree and 50% vegetative cover in front of all single family lots.
 - b. Plant Lists.
 - i. Lots within 200 feet of the Petroglyph National Monument shall use plants from **General Regulation B - Plant List A** only.
 - ii. Lots more than 200 feet from the Petroglyph National Monument shall use plants from **General Regulation B Plant List A** and/or B.
 - iii. See **General Regulation B** for plant lists.
 - c. Walls shall be per City Zoning Code §14-16-3-19. See General Requirements, Walls and Fences for exceptions. Walls shall be limited to:
 - ~~i. 3 feet maximum in front yard setback.~~
 - ~~ii. Rear Walls are per City Standards [367]~~
2. See **General Standards C.** for additional requirements.

D. USABLE OPEN SPACE REQUIREMENTS

1. Off-site Open Space dedication requirements are met by existing or proposed parks and trails.
2. See **General Standards D.** for additional requirements.

E. PARKING REQUIREMENTS

1. Parking Calculations are as follows:
 - a. Residential: 1/du minimum
2. See **General Standards E.** for additional requirements.

B – GENERAL STANDARDS

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Chapter 3

B – General Standards

The General Standards are applicable to the following SU-2 zones: Village Center (VTVC), Urban Residential, (VTUR), Small Lot (VTSL), Medium Lot (VTML), and Residential Developing Area (VTRD). **The General Standards do not apply to property zoned SU-2 Residential Developing Area (RD).** The General Standards include General Requirements, Building Standards, Landscape Standards, Usable Open Space Standards, and Parking Standards. [373]

Quality. ~~The quality of individual buildings contributes to the sense of place and permanence. These architectural and landscape standards apply to individual buildings, lighting, utilities, walls, and landscape design, with the intent of creating a high-quality built environment with lasting character that draws on southwestern regional styles and traditions. Individual design expression and the diverse character of the land-use districts can all flourish within an overall framework of quality.~~

Climate. ~~Architectural elements should respond to the unique climatic conditions of the southwest. In particular, this means conserving water and providing shade as relief from harsh sunlight and heat.~~

Views. ~~Important views from locations within Volcano Heights to the Rio Grande basin, across the city of Albuquerque and to the Sandia Mountains should be protected. As development within the Trails will be visible from most of the City of Albuquerque, care should be taken to achieve nonvisually intrusive development, especially in the lower-density residential areas adjacent to the Petroglyph National Monument. To minimize the visual impact of development, predominant colors used on structures will blend with the natural colors of the mesa.~~

A. GENERAL DESIGN STANDARDS

~~1. Where there is a conflict between the regulations in this document and those of the Northwest Mesa Escarpment Plan, this Plan the Northwest Mesa Escarpment Plan shall prevail unless otherwise detailed in this Plan. Where one plan is silent, policies and regulations in the other plan prevail.~~

~~2. The General Regulations section of the City Zoning Code §14-16-3 shall apply with the following additions and exceptions:~~

Density

1. Floor Area Ratio shall be defined as the gross floor area of all buildings at all levels divided by the total of site area of a project minus undevelopable areas (i.e. gross floor area/(total site area – undevelopable areas). Parking structures shall not be counted toward the gross floor area calculations. **Undevelopable land shall be defined as land that is not suitable for cut or fill and includes, but is not limited to, significant rock outcroppings as defined within this Plan.** [349]

Heights and Setbacks

1. Heights shall be measured from approved grade.
2. Exceptions to Zone Height and Setback Requirements:
 - a. Chimneys and cupolas ~~flagpoles and screened equipment~~ may extend 10 feet beyond height limits. ~~Screened equipment and flagpoles may extend 6 feet beyond height limits. Screened equipment shall be set back 15 feet from the façade. [377]~~
 - b. Walls and fences adjacent to streets and roads and/or within public right-of-way shall be limited in height to 8 feet measured from the low side of wall.
 - c. All rock outcroppings containing petroglyphs shall be protected per City Zoning Code §14-16-3-20. ~~Generally a major rock outcropping shall be a portion of bedrock or other stratum protruding through the soil level at a minimum of 6 feet high or greater, contain more than 50% exposed basalt or rock, and include native trees and/or native shrubs. Rock outcrops ~~==volcanic knolls or hillocks==~~ occur randomly throughout the Plan area. No petroglyph shall be defaced, altered, or moved without approval of a National Park Service representative from the Petroglyph National Monument. ~~Major rock outcroppings that exceed 3 feet in height and 6 feet in volume shall be conserved per §14-16-3-20.~~ All other archeological sites shall be protected or mitigated per City Zoning Code §14-16-3-20. Site treatment shall include preservation, avoidance, testing, or documentation of surface and/or subsurface remains ~~and/or artifacts~~. Development, trails, and recreation areas should be set back at least 50 feet from prehistoric petroglyphs or other sites with high archeological value, unless approved by Planning Director (or his/her designee). [376]~~

Utilities

1. Utility Easements shall be located in public rights-of-way or alleys. In order to facilitate pedestrian movement and maintain accessibility, utility infrastructure, such as light poles, transformers, boxes, and access panels shall not be located in the sidewalk or pedestrian realm. Transformer boxes and access panels are not permitted in the front setback in residential zones.
2. All screening and vegetation surrounding ground-mounted transformers and utility pads shall allow 10 feet of clearance for access and to ensure the safety of the work crew and public during maintenance and repair. [374]

Chapter 3

B – General Standards

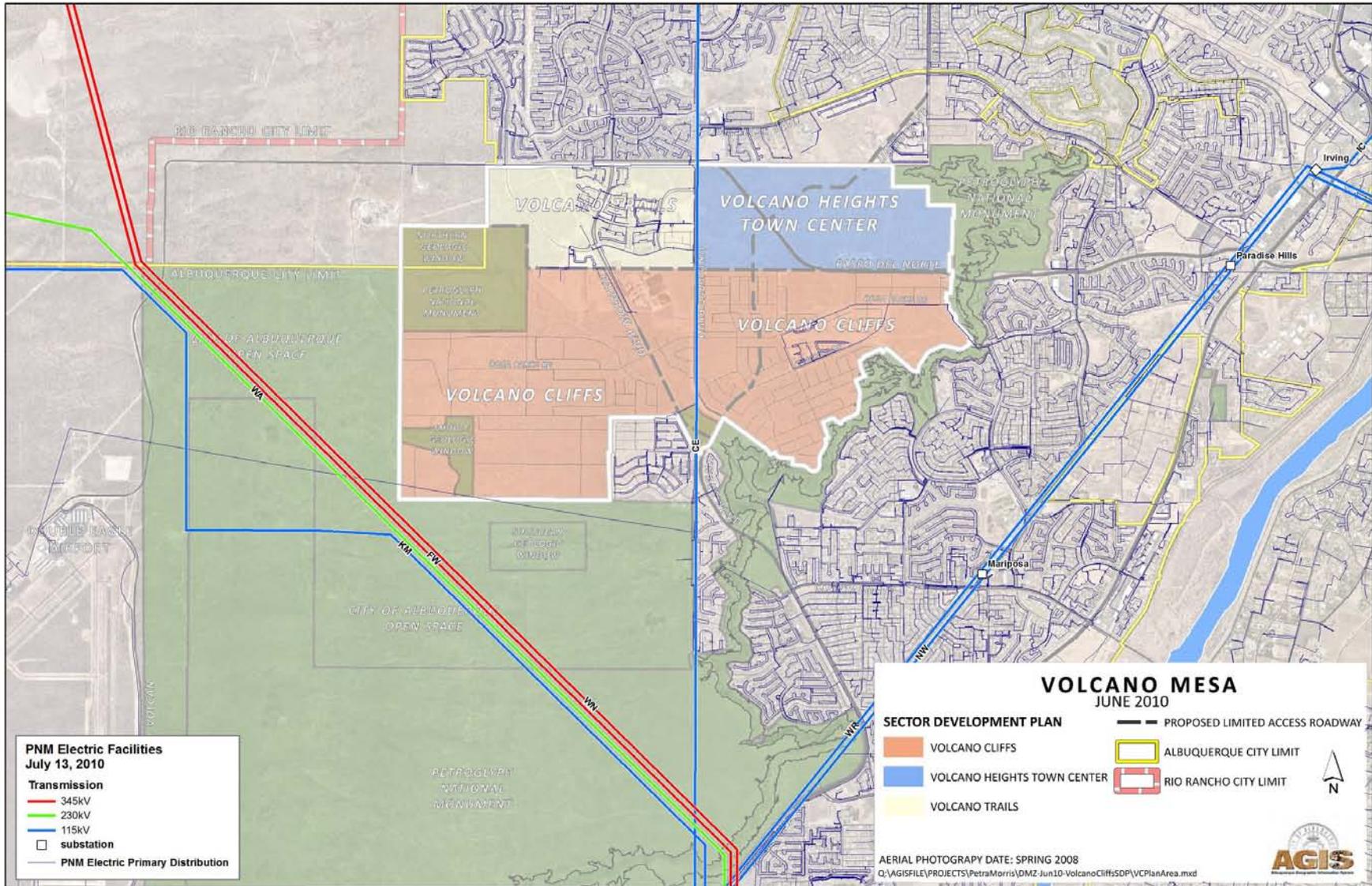


Exhibit 11, PNM Electric Facilities [1]

B. BUILDING DESIGN STANDARDS

The following Building Design Standards shall apply as specified below:

1. ~~a.~~ **Exterior Finishes.** Building walls shall be stucco, masonry, adobe, and/or native stacked stone (or synthetic equivalent). Plain block is not allowed for exterior walls. Wood and reflective panels shall not be used as an exterior finish. Stucco and concrete shall have integral color. Veneer materials shall extend around exterior corners at least one foot. Brick coping and trims are encouraged. Steel and synthetic wood substitutes are permitted for trim and detailing.
2. ~~b.~~ **Massing and articulation.** Building massing and articulation are required so that no more than 60 feet of wall may occur without an offset vertically or horizontally of at least 24 inches, or a change in material may be used for articulation at the same interval.
3. ~~d.~~ **Roofs.** Reflective roofs are prohibited. Parapets shall hide flat roofs ~~from adjacent public rights-of-way and Major Public Open Space.~~ Dimensional asphalt shall be used if asphalt roofing is specified. Solar panels are permitted on roofs ~~and need not be screened.~~ ~~Flashing shall match roof or building color.~~
4. ~~e.~~ **Building Transparency.** Transparency is measured by taking the total area of all of the windows and entrances and dividing it by the total area of the street-facing building elevations. Glass block, mirrored glass, frosted glass, and other obscured openings may not be used to meet the building transparency requirement.
5. ~~f.~~ **Window Cases.** ~~Window Cases allow some flexibility in meeting the transparency requirement for commercial uses. Window Cases have transparent fronts and are surface mounted or recessed shallow boxes that are a minimum of 3 feet wide by 5 feet tall. Window Cases shall contain display material at all times and shall not be backlit. Window cases shall be a minimum of 3 feet wide by 5 feet tall, shall be located a minimum of 30 feet on center, and shall be occupied by print media at all times. Window cases shall have transparent fronts and shall not be backlit. [387]~~
6. ~~g.~~ **Windows.** Windows shall be recessed in the façade so that the glass plane is a minimum of ~~2.5 inches + 1/2"~~ from the external plane of the adjacent wall. Glass on any surface shall not be reflective or mirror glass, that is, glass having greater than 15% average daylight exterior reflectance. Highly reflective or mirrored glass is prohibited. Glass for non-residential and mixed-use areas shall have light transmission between exterior and interior rated at a minimum of 90% for the ground story and at least 75% for the upper stories. Modifications are permitted as necessary to meet any applicable building and/or energy code requirements. ~~[381-reordering]~~

Chapter 3

B – General Standards

7. h. Entrances, Porches, Stoops & Vestibules. Entries for buildings shall connect to a street via a sidewalk, connecting directly and visibly from the street where possible, otherwise connecting via landscaped courtyard(s) or plaza(s). In addition, residential building entries shall have the following features with the floor area stipulated below:

- Apartment buildings – a covered porch or interior vestibule with 60 square feet floor area and at least 6 feet clear in any direction; interior vestibule entry doors shall be accompanied by an overhang and clear glazing within the door or immediately to the side of the door.
- Single-family detached houses – a covered porch with 60 square feet floor area and at least 6 feet clear in any direction.
- Townhouses – a covered porch, veranda or stoop with 40 square feet floor area and at least 6 feet clear in any direction.

8. c. Residential Garages. Garages shall not dominate the front façade. Street-fronting garages shall be per the requirements of **Table 3**. Garages shall not exceed 50% of the total front façade. ~~Garages should not dominate the front façade. Street fronting garages shall be set back at least 10 feet from the front façade. Garages should not exceed 50% of the total front façade. Lots greater than 40 feet wide up to 50 feet in width, garages shall not exceed 65% of total façade and each garage façade shall be set back a minimum of 3 feet from other garage façades. Three-car garages are not permitted on lots less than 50 feet wide. Three-car garages on lots greater than 50 feet wide shall have the third garage bay set back a minimum of 3 feet from the primary garage façade. (See **Table 3** for additional garage requirements.)~~

- a. Garage doors shall be set back a minimum of 2 feet from the garage facade to create a 'shadow box' that minimizes the prominence of the garage door.
- b. Three-car garages are not permitted on lots less than 50 feet wide. Three-car garages on lots greater than 50 feet wide shall have a third garage setback of 3 feet minimum from the primary garage façade.
- c. On lots less than 50 feet, property owners intending to build garages on the property lot line shall submit a platted and filed maintenance easement agreement signed by the adjacent property owner prior to being issued a building permit.
- d. The color of garage doors shall blend with or complement the exterior wall color in order to minimize the prominence of the garage door. See **B. Building Design Standards 9. Color** for additional requirements.
- e. See **Table 3** for additional garage requirements. [381]

LOT WIDTH	ALLOWABLE GARAGE TYPES	FRONT GARAGE SETBACK	SIDE GARAGE SETBACK	REAR GARAGE SETBACK
GREATER THAN 48 50 FEET	A, B, C, D, E, F	20' 10' MINIMUM FROM FRONT FACADE	5' MINIMUM	2' 5' MINIMUM 5' MAXIMUM
40 FEET TO 48 50 FEET	A, B, C, D, E	20' 35' MINIMUM FROM FRONT FACADE	NONE 0 MINIMUM [411]	2' 5' MINIMUM 5' MAXIMUM
LESS THAN 40 FEET	A, B, C, E	20' 35' MINIMUM FROM FRONT FACADE	NONE 0 MINIMUM [411]	2' 5' MINIMUM 5' MAXIMUM

- NOTE: 1. Garage Type D shall have a minimum of 5 linear feet of fenestration on the street façade and be articulated to resemble main structure.
- NOTE: 2. Garage Type F may be accessed from either front or side.
- NOTE: 3. Driveway access from street, including curb cut, is limited to 12 feet for Garage Types A, B, C, D, E, and F except where providing access from alleys.
- NOTE: 4. On streets designated Collector or lower, residential garages on corner lots shall be accessed from an alley or side street. [383]

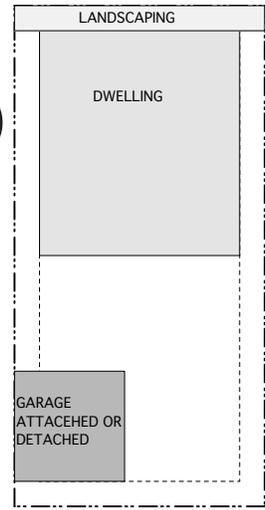
TABLE 3, GARAGE TYPES.

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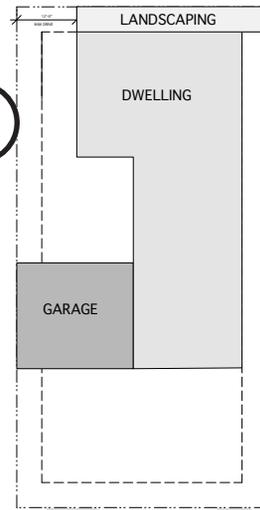
GARAGE TYPE DIAGRAMS

(A)



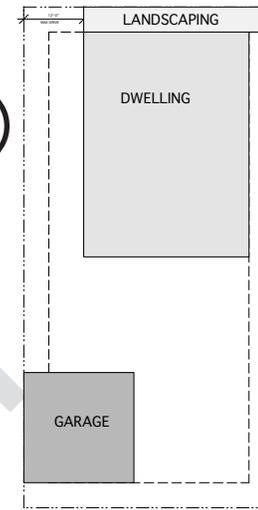
ALLEY
ALLEY ACCESSED GARAGE

(B)



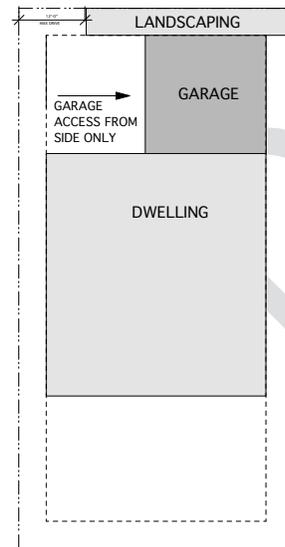
GARAGE OFF COURT

(C)



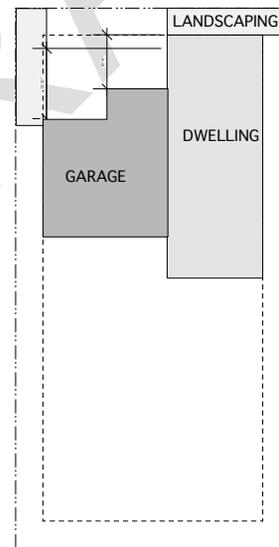
GARAGE BEHIND MAIN DWELLING

(D)



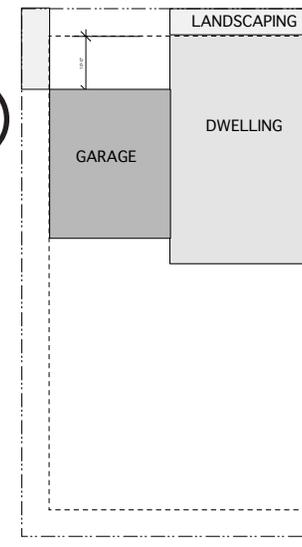
SIDE ACCESSED GARAGE

(E)



STEP BACK GARAGE

(F)



50% MAXIMUM GARAGE FRONTAGE

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9. ~~i.~~ **Color.** Colors used on building walls, roofs, and garage doors in Suburban Residential–Small Lot, Suburban Residential–Medium Lot shall be earth tones and meet reflectivity standards as specified in **General Regulation B - Approved Colors**. Other colors may only be used as accents. Buildings throughout the Plan area shall not have highly reflective surfaces. Mechanical devices, roof vents, and screening materials are also subject to this regulation, as are fences and walls. Trim materials constituting less than 10% of the façade's opaque surface may be any color.

10. ~~j.~~ **Service Areas.** Service areas (e.g. loading docks, freestanding mechanical equipment, refuse containers, compactors, recycling receptacles, etc.) shall not be visible from streets or public open spaces. They shall be located away from streets, ~~or~~ recessed within the building envelope, and/or screened from view of streets and Major Public Open Space. Service areas recessed within the building envelope, and facing streets, and/or Major Public Open Space shall not comprise more than 20% of a building's linear frontage; and shall be accompanied by roll-up doors. ~~Free-standing equipment and refuse containers shall be screened from view of streets and public open space.~~

11. ~~k.~~ **Commercial Signage.** Signs shall complement the architectural style of the site building(s). Letters shall not exceed 18 inches in height or width and 3 inches in relief.

12. ~~l.~~ **Awnings.** Awnings shall be cloth or equivalent, metal, or glass. "Quarter-cylinder" awning configurations are not permitted. Lettering on awnings is limited to 9 inches in height.

13. ~~m.~~ **Energy-Efficient Buildings.** Two or more of the following features shall be included in building design to ensure that buildings are energy efficient:

- interior daylighting;
- ~~fluorescent lighting~~ low-energy consumptive lighting for at least 80% of fixtures;
- heat-exchange units;
- super-insulated low-emissive windows;
- passive or active solar heating;
- passive or active solar hot water;
- ~~natural cross-ventilation;~~
- highly efficient appliances and heating and cooling systems; and
- generation of electricity through wind generation and photovoltaics; and
- ~~geothermal heating and cooling.~~

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C. LANDSCAPE DESIGN STANDARDS

~~1.~~ The following Landscape Standards shall apply to all zones as specified below:

1. ~~a.~~ Walls & Fences Material Finishes & Design.

- a. ~~Height & Placement.~~ Walls and fences shall not exceed a height of 36 inches where allowed within street-facing setbacks (except for columns that support arcades or trellises). Retaining walls in all locations shall not exceed 48 inches, unless approved by the City Hydrologist. Fences and walls shall not exceed a height of 72 inches inside required street-facing setbacks along rear and interior side property lines. Height shall be measured from the lower side within the required side or rear yard.
- b. ~~Adjacency to Monument and City Open Space.~~ Properties that are located adjacent to the Petroglyph National Monument and/or Major Public Open Space shall use coyote fencing, post and wire (not barbed), or view fencing. View fencing allows for a general sense of openness, visual transparency, and passive surveillance, while still maintaining perimeter security.
- c. ~~Materials & Design.~~ Site walls may be clad or plastered with stucco, brick, tile masonry, concrete, and/or native stone (or synthetic equivalent). Exposed plain block, including all colors, is not allowed for site walls. Stucco and concrete shall have an integral color. The end of walls shall have a pier or pilaster at least 12 inches wide to give a substantial appearance. Post and wire or coyote fencing is allowed. Wood board, cyclone, chain link, and razor wire fencing are prohibited.

~~Walls.~~ Walls may be clad or plastered with stucco, brick and tile masonry, or native stone (or synthetic equivalent). Split face block is allowed throughout. Smooth exposed block, of any color, is allowed for a maximum of 50% of exterior walls outside of the front setback. Stucco and concrete shall have an integral color. The end of walls shall have a pier or pilaster that is at least 12 inches in width, to give a substantial appearance. For Parcels adjacent to the High School site, the backs of the parcels facing the High School site shall use a perimeter wall design approved by the City. [394]

2. ~~b.~~ **Pedestrian Walkways.** Arcades, trellises, awnings, and/or trees are encouraged along pedestrian paths for shade and spatial definition. In parking lots, pedestrian walkways shall not extend more than 75 feet without one of these features.

3. **Sidewalk Locations.** The location of sidewalks shall reflect the desired character and density of the surrounding land uses. In high- and medium-density neighborhoods (i.e., SU-2/VC and SU-2/UR, and SU-2 SL zone), sidewalks are essential to creating a vibrant, pedestrian lifestyle. In lower-density settings (i.e., SU-2/ML), the use of sidewalks may be excessive, and connections may be more appropriately provided via trails and gravel shoulders.

- a. Where average densities exceed 4 units per gross acre, sidewalks shall accompany both sides of all streets.
- b. Where average densities are less than 4 units per acre, trails and gravel shoulders may be used in lieu of street sidewalks.

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4. ~~c.~~ **On-Lot Trees.** Where buildings are placed more than 10 feet from a street-side property line, at least one tree shall be planted per property within the street-side setback. Properties with a street frontage over 100 feet shall have a minimum of one tree for every 40 50 feet. [395] Street trees on local streets shall be maintained by the property owner. Street trees on collector or higher capacity streets shall be maintained by the City Parks and Recreation Department.

5. ~~d.~~ **Site Lighting.** Lighting shall have a cut-off angle that directs light downward and only toward the property on which the light source is located. Light fixtures shall be of a type that throws light downward and have baffles, hoods or diffusers so that no light point source shall be visible from a distance greater than 1000 feet. On-site light poles shall not exceed a height of 16 feet. High-intensity discharge lamps and sodium lamps shall not be used.

6. ~~e.~~ **Gateway Monuments.** Pillars or walls are permitted at entry points to neighborhoods and projects. Walls shall not be more than 12 feet long and conform with **General Standard C.1. Walls & Fences Material Finishes & Design.** Pillars shall not be more than 3 feet in width and 10 feet in height. Pillars and walls shall be stucco, masonry, rammed earth, adobe, native stacked stone (or synthetic equivalent) or straw bale. Exposed plain block, of any color, is not allowed. Stucco and concrete shall have an integral color. See **General Standard B.9. Color** for additional requirements.

7. ~~g.~~ **Grading.** Cut and fill slopes shall be no steeper than 3:1 on average and retaining walls shall not exceed 4 feet in height unless incorporated within a building's foundation or approved by the City Hydrologist. Graded areas shall maintain the character of the natural terrain by varying gradients, undulating contours, and rounding the toe and crest of any slope greater than 10 feet in height. Fill shall be limited to the minimum required for site development and drainage. Fill shall not exceed the existing highest natural grade point on site, unless approved by the City Hydrologist for required drainage. Height shall be measured from the natural grade. **Bikeways and other amenities within the right-of-way shall be provided in such a way as to minimize the extent of disturbance to slopes and vegetation and the need for cut and fill.**

8. ~~h.~~ **Rainwater Storm-water Quality and Management.** *Where appropriate,* development projects shall incorporate unobtrusive **rainwater storm-water** features that facilitate the detention and infiltration of **rainwater storm-water** and the filtration of pollutants from urban run-off. At all densities and intensities, appropriate techniques include:

- permeable pavers & concrete,
- infiltration beds placed below paved areas,
- stone-filled reservoirs and dry-wells,
- small “rain gardens” (low-lying with moisture-tolerant grasses, wildflowers, shrubs, and trees), and
- vegetated swales (in courtyards, street medians, and planting strips).

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- a. Materials and treatments used for ~~rainwater storm water~~ management shall be natural in appearance. Channels lined by concrete or rip-rap are prohibited, unless necessary for public safety.
- b. Fencing shall be avoided; the bottom slopes of detention basins shall be designed for safety. In addition, a hydrological study and design may be required of new development by the City of Albuquerque to identify appropriate ~~rainwater storm water~~ detention and energy dissipation features. [422] [398]

9. ~~z~~ **Construction Mitigation.** Construction within the Plan area or parts of the area shall be mitigated as provided by **General Regulation C – Construction Mitigation**. These regulations are fully part of this regulating plan and shall be enforced as such.

10. ~~j~~ **Appropriate Planting Lists.** The purpose of ~~directing landscaping regulating~~ plants ~~are is~~ to reduce water usage, maintain the character of native plants now existing in the Petroglyph National Monument, and provide a harmonious landscape image. Two plant lists shall guide landscaping within ~~the~~ Plan Area. Shrubs and trees shall be nursery grown. ~~The~~is Plan expressly supports enforcement activities to prevent illegal removal of naturally occurring vegetation from its existing location. ~~All properties in Volcano Trails more than 200 feet from public lands such as the Petroglyph National Monument, arroyos, and other Major Public Open Space shall use plants from Plant List A and/or B. Land disturbed in development shall be re-vegetated using the appropriate Plant List.~~

- a. **List A – Petroglyph National Monument Plant List.** These are the plant species inventoried by the National Park Service in 1994-1995, including almost 200 plants (amended). This plant list is ~~reproduced in full~~ in **General Regulation B**. Lots ~~within 200 feet of adjacent to~~ public lands such as the Petroglyph National Monument, arroyos, and other Major Public Open Space areas ~~should primarily shall~~ follow Plant List A to limit impact of invasive and/or non-native plants on native vegetation. [5]
- b. **List B – Xeric Plant List.** These plant species are the official xeric or low-water use plant list of the ~~City of Albuquerque Water Conservation Office-Albuquerque Bernalillo County Water Utility Authority (ABCWUA)~~. The majority of the list is low and medium water-use plants. Some high-water use plants are also listed in order to classify them as such in implementation of the water conservation program. This xeric plant list is extensive and ~~is maintained updated periodically~~ by the ~~City-ABCWUA~~. Contact the ~~City of Albuquerque Water Conservation Office ABCWUA~~ to obtain the most current information (~~see contact information provided in~~ **General Regulation B**). [7]

D. USABLE OPEN SPACE STANDARDS

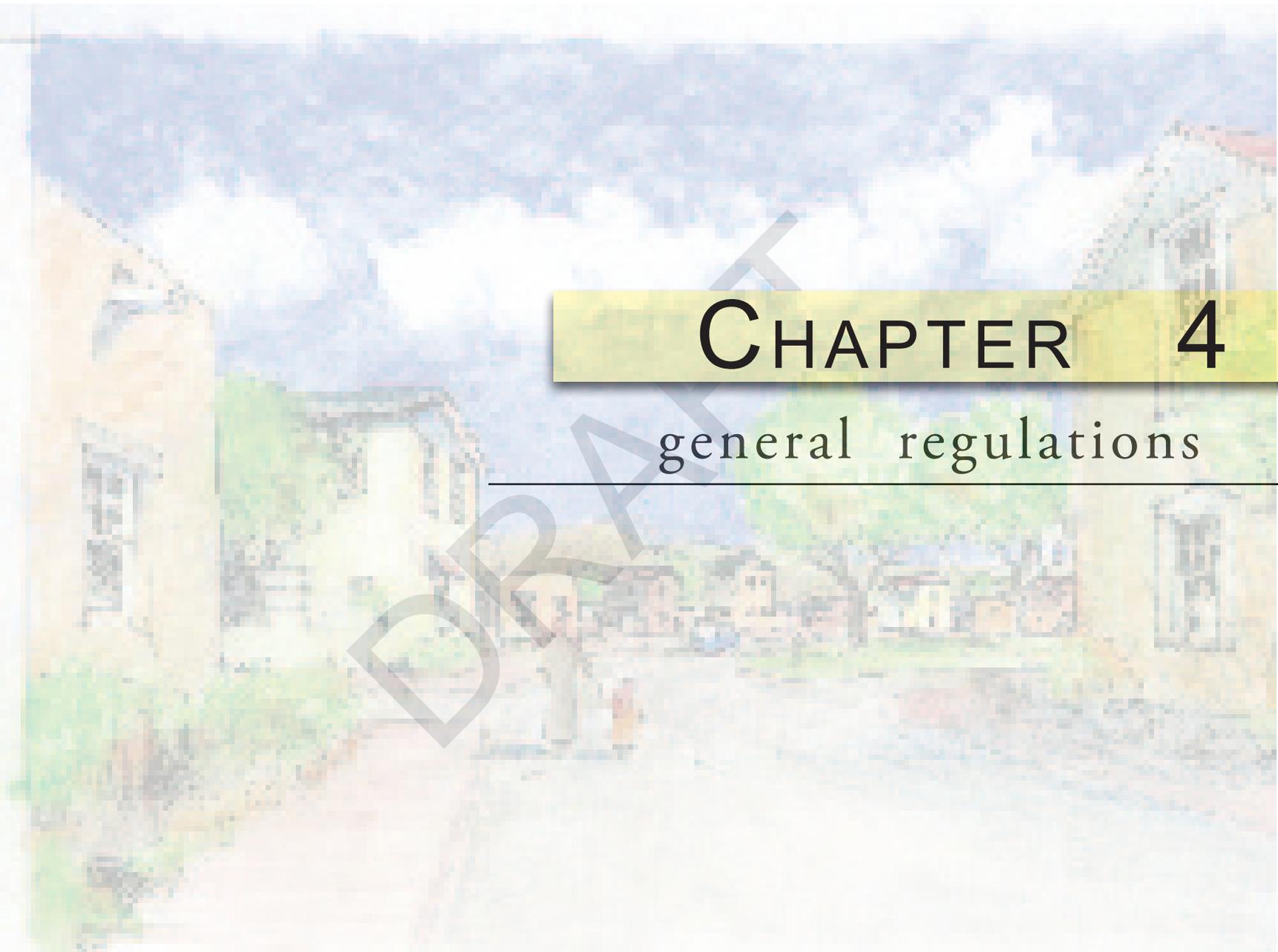
1. Private Usable Open Space may be a yard, deck, balcony, porch, **portal**, or patio and shall have an unobstructed dimension of at least 6 feet. [400]
2. Shared Usable Open Space shall be accessible to all project residents and have unobstructed dimensions of at least 40 feet. Shared Usable Open Space may be a park, courtyard, plaza, play area, community facility, roof garden, or some combination thereof.
3. Usable Open Space shall be privately maintained.
4. Off-site Open Space dedication requirements are met by **proposed and existing public and private (i.e. Homeowners Association-owned and maintained) parks, open space tracts, and trails parks and trails.** [399]

E. PARKING STANDARDS

1. **Parking Dimensions – On-Site.** On-site parking shall be per the City Zoning Code §14-16-1-5 definition for “Parking Space, Automobile and Light Truck.” ~~Parking spaces may be have a length of 18 feet; this may be reduced to 16 feet where cars can overhang wheel stops. Standard parking spaces may have a width of 9 feet, and compact parking spaces shall have a width of 8.5 feet. Within every parking lot or garage, up to 25% of all spaces shall be compact and shall be dispersed throughout any lot.~~ [403]
2. **Parking Dimensions – On-Street.** On-street parking spaces may have a length of 20 feet and a width of 7 feet.
3. **Landscaping.** Surface parking shall have one tree planted adjacent to every six parking spaces. Diamond-shaped tree wells (approximately 5 feet by 5 feet) are an efficient means to meet this requirement, as they take advantage of car overhangs. Surface parking lots may not exceed a dimension of ~~200~~ **260** feet in any direction without providing a landscaped pedestrian walkway. [401]
4. **Neighborhood Permit Parking.** ~~Neighborhoods adjoining a Village Center, high school site, and access points to the Petroglyph National Monument, parks, and open space may initiate a petition and establish a Neighborhood Permit Parking system without regard to the percentage of on-street parking spaces used by persons who are not residents of the neighborhood.~~ [402]

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CHAPTER 4

general regulations

Chapter 4 – General Regulations

A – Approved Colors

APPROPRIATE COLORS from the Natural Landscape
for
BUILDINGS WITHIN RESIDENTIAL AREAS

LIGHT REFLECTANCE VALUES			
Chart Color	LRV %	Chart Color	LRV %
122 Straw	41.83	135 Sahara	34.63
106 Buckskin	34.73	116 Adobe	24.03
118 Suede	37.67	124 Coral	34.93
117 Fawn	45.48	115 Cottonwood	32.18

LRV data is from El Rey Stucco; El Rey does not guarantee the LRV data provided. Colors are illustrative from El Rey Standard Color for Premium Stucco Finish. Color reproduction in this Plan is not an exact representation of the El Rey color chart.

Exhibit 12 44, Approved Colors

Exterior color and reflectivity standards for residential areas

All of the illustrated colors have a “light reflective value” (LRV) within the range of 20% to 50% LRV rating ~~shall may~~ be used in any residential area. Other colors may be submitted related to a specific site or more detailed plan, but they must have an LRV rating within this range. [5]

The material samples shown are of stucco with integrated color as required ~~in the VHAP~~.

Light and color work together. White reflects the radiant energy rays of the sun and black absorbs them. This principle has a significant impact on a house. Light colored reflective coatings are like a white shirt for a house and cut cooling costs. Dark colors are less reflective but can significantly increase the surface temperature of a wall. Finish coat colors with Light Reflective Values of 20% or lower are highly absorbent and will, in typical conditions, result in surface temperatures higher than acceptable sustained service temperature. Higher reflective values on external coatings reduce energy consumption and create higher performance buildings.

At the same time, the higher reflectivity value of lighter colors is a consideration for Volcano Heights because of the need to minimize the visual effect of development in the area on views from the rest of the city. In 1993 the High Desert Plan required an upper limit of 40% reflectivity. A balance between reflectivity and light absorption is recommended for Volcano Heights through a mid-range of color reflectivity.

The third consideration is the emphasis on the natural landscape in the VHAP. The recommended colors are selected to be in harmony with the natural setting and at the same time provide choice in color selection.

In keeping with New Mexico tradition, accent colors on front doors, window sash, and other incidental elements are allowed as long as the accent does not overwhelm the building’s basic color or create a visual distraction from the adjacent streets, lots, or public areas.

The color sample is for El Rey traditional cementitious stucco manufactured locally in Albuquerque. El Rey Premium Stucco Finish is a compound of cement, hydrated lime, sand aggregates, and iron oxide pigments. Since the stucco is integrally colored, it will never need to be painted. Like many natural landscapes, the traditional cement stucco is breathable and appears slightly different during each season and at alternate times of the day.

Other types of stucco with similar colors may be used, as long as they have integral color and meet the standards for reflectivity and harmony with the natural landscape.

B – Native Plant List A & Xeric Plant List B

Native Plant List A

List of Plant Species of Petroglyph National Monument - Plants found by Bleakly during survey from August 1994 through September 1995. One hundred and ninety-two (192) plants from 40 families were identified. Arrangement is alphabetical by family, genus, and species with some synonyms and common names. An asterisk (*) before the name indicates plants listed in Barlow-Irick (1993). Nomenclature according to Kartesz (1994). Common names from various sources. Number of species in each family are in parentheses after family name. A “pound sign” (#) indicates that a voucher is housed at the UNM Herbarium.

ADIANTACEAE Maidenhair Fern Family (1)
Cheilanthes feei T. Moore SLENDER LIPFERN #

AGAVACEAE Agave or Yucca Family (1)
Yucca glauca Nutt. SMALL SOAPWEED

AMARANTHACEAE Pigweed Family (3)
Amaranthus acanthochiton Sauer GREENSTRIPE #
Amaranthus wrightii S. Wats. WRIGHT’S AMARANTH #
Tidestromia lanuginosa (Nutt.) Standl. WOOLLY TIDESTROMIA

ANACARDIACEAE Sumac Family (1)
Rhus trilobata Nutt. SKUNKBUSH, SKUNKBUSH SUMAC

APIACEAE (=UMBELLIFERAE) Parsley or Carrot Family (1)
Cymopterus acaulis (Pursh) Raf. var. fendleri (Gray)
Goodrich (Cymopterus fendleri Gray) FENDLER SPRINGPARSLEY #

ASCLEPIADACEAE Milkweed Family (1)
Asclepias subverticillata (Gray) Vail WHORLED MILKWEED

ASTERACEAE (=COMPOSITAE) Sunflower Family (42)
Acourtia nana (Gray) Reveal & King (Perezia nana Gray) DWARF
DESERT HOLLY, DWARF DESERTPEONY #
Aphanostephus ramosissimus DC. PLAINS DOZEDAISY #

Artemisia bigelovii Gray BIGELOW’S SAGEBRUSH #
Artemisia filifolia Torr. SANDSAGE, SAND SAGEBRUSH
Artemisia frigida Willd. FRINGED SAGE
Artemisia ludoviciana Nutt. ssp. albula (Woot.) Keck WHITE SAGEBRUSH #
* Bahia absinthifolia Benth. #
* Bahia dissecta (Gray) Britt.
Bahia pedata Gray BLUNTSCALE BAHIA #
Baileya multiradiata Harvey & Gray ex Gray DESERT MARIGOLD #
* Berlandiera lyrata Benth.
Brickellia californica (Torr. & Gray) Gray CALIFORNIA BRICKELLBUSH #
Chaetopappa ericoides (Torr.) Nesom (Leucelene ericoides (Torr.) Greene)
WHITE ASTER

* Chrysothamnus nauseosus (Pallas ex Pursh) Britt. ssp. bigelovii (Gray)
Hall & Clements #
Chrysothamnus pulchellus (Gray) Greene ssp. pulchellus
SOUTHWESTERN RABBITBRUSH #
Conyza canadensis (L.) Cronq. CANADIAN HORSEWEED
* Gaillardia pinnatifida Torr. #
Gaillardia pulchella Foug. FIREWHEEL
Gutierrezia sarothrae (Pursh) Britt. & Rusby BROOM SNAKEWEED #
Helianthus petiolaris Nutt. PRAIRIE SUNFLOWER
Hymenopappus flavescens Gray var. canotomentosus Gray YELLOW-FLOWERED
WHITE RAGWEED, COLLEGEFLOWER #
Macheranthera canescens (Pursh) Gray HOARY TANSYASTER #
* Machaeranthera gracilis (Nutt.) Shinners (Haplopappus gracilis
(Nutt.) Gray) #
Machaeranthera pinnatifida (Hook.) Shinners (Haplopappus spinulosus
(Pursh) DC.) LACY TANSYASTER
Malacothrix fendleri Gray FENDLER DESERTDANDELION #
Melampodium leucanthum Torr. & Gray PLAINS BLACKFOOT #
* Microseris sp. Palafoxia sphacelata (Nutt. ex Torr.) Cory OTHAKE #
Parthenium incanum Kunth MARIOLA #
Pectis angustifolia Torr. var. angustifolia NARROWLEAF PECTIS #
Psilostrophe tagetina (Nutt.) Greene WOOLLY PAPERFLOWER

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B – Native Plant List A & Xeric Plant List B

Sanvitalia abertii Gray ABERT'S CREEPING ZINNIA #
Senecio flaccidus Less. var. flaccidus (Senecio douglasii DC. ssp. longilobus (Benth.) L. Benson THREADLEAF GROUNDSEL #
Senecio multicapitatus Greenm. ex Rydb. RAGWORT GROUNDSEL #
Senecio riddellii Torr. & Gray RIDDELL'S RAGWORT OR GROUNDSEL #
Stephanomeria pauciflora (Torr.) A. Nels. BROWNPLUME WIRELETTUCE #
Thelesperma megapotamicum (Spreng.) Kuntze HOPI TEA, GREENTHREAD
Thymophylla acerosa (DC.) Strother (Dyssodia acerosa DC.) PRICKLYLEAF DOGWEED #
Verbesina encelioides (Cav.) Benth. & Hook. f ex Gray GOLDENCROWNBEARD, COWPEN DAISY
Xanthium strumarium L. COCKLEBUR
Zinnia grandifolia Nutt. ROCKY MOUNTAIN ZINNIA #

BIGNONIACEAE Bignonia Family (1)
Chilopsis linearis (Cav.) Sweet DESERT WILLOW

BORAGINACEAE Borage Family (4)
Cryptantha cinerea (Greene) Cronq. var. cinerea (C. jamesii Payson var. multicaulis (Torr.) Payson) JAMES' CATSEYE #
Cryptantha crassisepala (Torr. & Gray) Greene var. elachantha I.M. Johnston. THICKSEPAL CATSEYE #
Heliotropium convolvulaceum (Nutt.) Gray PHLOX HELIOTROPE
Lappula occidentalis (S. Wats.) Greene var. occidentalis (L. redowskii (Hornem.) Greene) FLATSPINE STICKSEED #

BRASSICACEAE (=CRUCIFERAE) Mustard Family (7)
Descurainia pinnata (Walt.) Britt. WESTERN TANSYMUSTARD #
Dimorphocarpa wislizenii (Dithyrea wislizenii)

SPECTACLE POD; TOURISTPLANT
Lepidium lasiocarpum Nutt. var. lasiocarpum SHAGGYFRUIT PEPPERWEED #
* Lepidium montanum Nutt.
Lesquerella fendleri (Gray) S. Wats. FENDLER BLADDERPOD #

CACTACEAE Cactus Family (6)
Echinocereus fendleri (Engelm.) F. Seitz PINKFLOWERED HEDGEHOG CACTUS
Escobaria vivipara (Nutt.) Buxbaum (Coryphantha vivipara (Nutt.) Britt. & Rose) SPINYSTAR
Opuntia clavata Engelm. CLUB CHOLLA
Opuntia imbricata (Haw.) DC. TREE or WALKINGSTICK CHOLLA
Opuntia phaeacantha Engelm. BROWNSPINE PRICKLYPEAR
Opuntia polyacantha Haw. PLAINS PRICKLYPEAR

CAPPARACEAE Caper Family (1)
Polanisia dodecandra (L.) DC. ssp. trachysperma (Torr. & Gray) Ilitis SANDYSEED CLAMMYWEED #

CHENOPODIACEAE Goosefoot Family (5)
Atriplex canescens (Pursh) Nutt. FOURWING SALTBUCH
* Chenopodium denticatum A. Nels. #
Chenopodium fremontii S. Wats. FREMONT'S GOOSEFOOT #
Krascheninnikovia lanata (Pursh) Guldenstaedt (Ceratoides lanata (Pursh) J.T. Howell; Eurotia lanata (Pursh) Moq.) WINTERFAT

CUCURBITACEAE Gourd Family (1)
Cucurbita foetidissima Kunth COYOTE or MISSOURI GOURD

CUPRESSACEAE Cypress Family (1)
Juniperus monosperma (Engelm.) Sarg. ONESEED JUNIPER

EPHEDRACEAE Jointfir Family (1)
Ephedra torreyana S. Wats. TORREY JOINTFIR or MORMON TEA #

EUPHORBACEAE Spurge Family (7)
Chamaesyce parryi (Engelm.) Rydb. PARRY'S SANDMAT or SPURGE #
Chamaesyce serpyllifolia (Pers.) Small THYMELEAF SANDMAT or SPURGE #
Chamaesyce serrula (Engelm.) Woot. & Standl. SAWTOOTH SANDMAT or SPURGE #
Croton texensis (Klotzsch) Muell.-Arg. TEXAS CROTON #
Euphorbia dentata Michx. TOOTHED SPURGE #

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* *Tragia ambylodonta* (Muell.-Arg.) Pax & K. Hoffmann
Tragia ramosa Torr. BRANCHED NOSEBURN

FABACEAE (=LEGUMINOSAE) Bean or Pea Family (14)
Astragalus amphioxys Gray var. *amphioxys* CRESCENT MILKVETCH #
Astragalus ceramicus Sheld. var. *ceramicus* PAINTED MILKVETCH #
Astragalus lentiginosus Dougl. var. *diphysus* (Gray) Jones SPECKLEDPOD MILKVETCH #
Astragalus nuttallianus DC. SMALLFLOWERED MILKVETCH #
Caesalpinia jamesii (Torr. & Gray) Fisher JAMES' HOLDBACK
Dalea compacta Spreng. var. *compacta* COMPACT PRAIRIECLOVER #
Dalea formosa Torr. FEATHERPLUME
Dalea lanata Spreng. var. *terminalis* (Jones) Barneby WOOLLY PRAIRIECLOVER #
Dalea nana Torr. ex Gray var. *carnescens* Kearney & Peebles DWARF PRAIRIECLOVER #
Dalea scariosa S. Wats. (*Petalostemon scariosa* (S. Wats.) Wemple) ALBUQUERQUE PRAIRIECLOVER #
Hoffmannsegia glauca (Ortega) Eifert INDIAN RUSHPEA
Pediomelum hypogaeum (Nutt.) Rydb. (*Psoralea hypogaea* Nutt.) SCURFPEA #
Psoralea scoparius (Gray) Rydb. (*Dalea scoparia* Gray) BROOM

DALEA; PURPLE SAG

FUMARIACEAE Fumitory Family (1)
Corydalis aurea Willd. GOLDEN CORYDALIS, SCRAMBLED EGGS, GOLDENSMOKE, BUTTER AND EGGS
GROSSULARIACEAE Gooseberry Family (1)
Ribes sp. GOOSEBERRY

HYDROPHYLLACEAE Waterleaf Family (4)
Nama hispidum Gray BRISTLY NAMA
Phacelia crenulata Torr. var. *crenulata* CLEFTLEAF WILDHELIOOTROPE #
Phacelia integrifolia Torr. GYPSUM SCORPIONWEED #
Phacelia ivesiana Torr. IVES PHACELIA #

LINACEAE Flax Family (2)
Linum aristatum Engelm. BRISTLE FLAX
**Linum australe* Heller #

LOASACEAE Stickleleaf Family (2)
Mentzelia albicaulis (Dougl.) Dougl. WHITESTEM BLAZINGSTAR
Mentzelia pumila (Nutt.) Torr. & Gray DWARF MENTZELIA #

MALVACEAE Mallow Family (5)
Sida abutilifolia P. Mill. (*Sida filicaulis* Torr. & Gray) SPREADING FANPETALS #
* *Sida neomexicana* Gray
Sphaeralcea angustifolia (Cav.) G. Don ssp. *lobata* (Woot.) Kearney COPPER GLOBEMALLOW #
Sphaeralcea hastulata Gray (*Sphaeralcea subhastata* Coult.) SPEAR GLOBEMALLOW #
Sphaeralcea incana Torr. ex Gray GRAY GLOBEMALLOW #

NYCTAGINACEAE Four O'clock Family (7)
Abronia fragrans Nutt. ex Hook. FRAGRANT WHITE SAND VERBENA
* *Allionia choysia* Standl. #
Allionia incarnata L. TRAILING WINDMILLS #
Boerhavia spicata Choisy (*B. torreyana* (S. Wats.) Standl.) CREEPING SPIDERLING

* *Mirabilis glabra* (S. Wats.) Standl. (*Oxybaphus glaber* S. Wats.) #
Mirabilis linearis (Pursh) Heimerl NARROWLEAF FOUR O'CLOCK
Selinocarpus diffusus Gray SPREADING MOONPOD #

OLEACEAE Olive Family (1)
Menodora scabra Gray ROUGH MENODORA

ONAGRACEAE Evening Primrose Family (2)
Gaura coccinea Nutt. ex Pursh SCARLET BEEBLOSSOM
Oenothera pallida Lindl. PALE EVENINGPRIMROSE #

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OROBANCHACEAE Broomrape Family (1)

Orobanche ludoviciana Nutt. (*O. multiflora* Nutt.) LOUISIANA BROOMRAPE #

PEDALIACEAE Sesame Family (1)

Proboscidea louisianica (P. Mill.) Thelleng COMMON DEVILSCLAW, DEVILSHORN, RAM'S HORN

PLANTAGINACEAE Plantain Family (1)

Plantago patagonica Jacq. (*P. purshii* Morris) WOOLLY PLANTAIN #
Plantago lanceolata L. NARROWLEAF PLANTAIN

POACEAE (=GRAMINAE) Grass Family (42)

Aristida adscensionis L. SIXWEEKS THREEAWN #
* *Aristida arizonica* Vasey
Aristida havardii Vasey HAVARD'S THREEAWN #
* *Aristida pansa* Woot. & Standl.
Aristida purpurea Nutt. var. *fendleriana* (Steud.) Vasey FENDLER'S THREEAWN #
* *Aristida purpurea* Nutt. var. *neallyi* (Vasey) Allred #
* *Aristida purpurea* Nutt. var. *purpurea* #
* *Bothriochloa barbinodis* (Lag.) Herter #
Bothriochloa laguroides (DC.) Herter ssp. *torreyana* (Steud.) Allred & Gould (*Andropogon saccharoides* Sw.) SILVER BEARDGRASS or SILVER BLUESTEM #
Bouteloua aristoides (H.B.K.) Griseb. var. *aristoides* NEEDLE GRAMA #
Bouteloua barbata Lag. var. *barbata* SIXWEEKS GRAMA #
Bouteloua curtipendula (Michx.) Torr. SIDEOATS GRAMA
Bouteloua eriopoda (Torr.) Torr. BLACK GRAMA #
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths BLUE GRAMA
Bouteloua hirsuta Lag. HAIRY GRAMA
* *Cenchrus carolinianus* Walt. (*Cenchrus incertus* M.A. Curtis)
* *Digitaria californica* (Benth.) Henr.#
Elymus elymoides (Raf.) Swezey (*Sitanion hystrix* (Nutt.) J.G. Sm.; *Elymus longifolius* (J.G. Sm.) Gould) SQUIRRELTAIL #
Enneapogon desvauxii Beauv. NINEAWN PAPPUSGRASS #
Erioneuron pulchellum (Kunth) Tateoka (*Dasyochloa pulchella* (Kunth) Willd.

ex Rydb.) FLUFFGRASS, LOW WOOLLYGRASS #
Hilaria jamesii (Torr.) Benth. (*Pleuraphis jamesii* Torr.) GALLETA #
* *Koeleria macrantha* (Ledeb.) J.A. Schultes (*Koeleria cristata* auct. p.p. non Pers.)
* *Lycurus phleoides* Kunth
Monroa squarrosa (Nutt.) Torr. (*Munroa squarrosa* (Nutt.) Torr.) FALSE BUFFALOGRASS #
* *Muhlenbergia arenacea* (Buckl.) A.S. Hitchc.
Muhlenbergia arenicola Buckl. SAND MUHLY #
Muhlenbergia porteri Scribn. BUSH MUHLY #
Muhlenbergia pungens Thurb. SANDHILL MUHLY #
Muhlenbergia torreyi (Kunth) A.S. Hitchc. ex Bush RING MUHLY
Oryzopsis hymenoides (Roemer & J.A. Schultes)
Ricker ex Piper INDIAN RICEGRASS
* *Poa bigelovii* Vasey & Scribn.
Scleropogon brevifolius Phil. BURROGRASS #
Setaria leucopila (Scribn. & Merr.) K. Schum. STREAMBED BRISTLEGRASS #
* *Setaria lutescens* (Weigel) F.T. Hubbard ?
Sporobolus contractus A.S. Hitchc. SPIKE DROPSEED
Sporobolus cryptandrus (Torr.) Gray SAND DROPSEED #
* *Sporobolus flexuosus* (Thurb. ex Vasey) Rydb. #
Sporobolus giganteus Nash GIANT DROPSEED #
Stipa comata Trin & Rupr. var. *comata* NEEDLEANDTHREAD #
* *Stipa neomexicana* (Thurb. ex Coult.) Scribn.
Stipa spartea Trin. PORCUPINEGRASS #
Vulpia octoflora (Walt.) Rydb. (*Festuca octoflora* Walt.) SIXWEEKS FESCUE #

POLEMONIACEAE Phlox Family (1)

Ipomopsis pumila (Nutt.) V. Grant DWARF GILIA #

POLYGONACEAE Knotweed Family (4)

Eriogonum abertianum Torr. var. *abertianum* ABERT BUCKWHEAT #
* *Eriogonum effusum* Nutt.
Eriogonum polycladon Benth. SORREL BUCKWHEAT #
Eriogonum rotundifolium Benth. ROUNDLEAF BUCKWHEAT #
Rumex hymenosepalus Torr. CANAIGRE; DOCK #

B – Native Plant List A & Xeric Plant List B

PORTULACACEAE Purslane Family (1)

Portulaca sp. PURSLANE

RANUNCULACEAE Crowfoot Family (1)

Delphinium sp. LARKSPUR

ROSACEAE Rose Family (1)

Fallugia paradoxa (D. Don) Endl. ex Torr. APACHE PLUME

SALICACEAE Willow Family

Salix sp .WILLOW

SCROPHULARIACEAE Figwort Family (3)

Epixiphium wislizenii (Engelm. ex Gray) Munz (Maurandya wislizenii

Engelm. ex Gray) BALLOONBUSH #

Penstemon ambiguus Torr. GILIA PENSTEMON or BEARDTONGUE

* Penstemon sp.

SOLANACEAE Potato Family (6)

Chamaesaracha coronopus (Dunal) Gray GREENLEAF FIVE EYES #

Datura inoxia P. Mill. THORNAPPLE; JIMSONWEED #

Lycium pallidum Miers PALE WOLFBERRY

Nicotiana trigonophylla Dunal DESERT TOBACCO #

Physalis acutifolia (Miers) Sandw. (P. wrightii Gray) SHARPLEAF

GROUNDCHERRY #

Solanum elaeagnifolium Cav. SILVERLEAF NIGHTSHADE

VERBENACEAE Vervain Family (2)

Aloysia wrightii Heller ex Abrams WRIGHT'S BEEBRUSH #

* Tetradlea coulteri Gray #

ZYGOPHYLLACEAE Caltrop Family (2)

Kallstroemia sp. CALTROP

Xeric Plant List B

A list of official xeric or low-water plant species periodically updated by the Albuquerque Bernalillo County Water Utility Authority (ABCWUA).

To obtain the most current information, contact ABCWUA:

Telephone: 505-842-WATR

Website: <http://www.abcwua.org/pdfs/xeriplantlist.pdf>

For additional information, see ABCWUA's How-To Guide to Xeriscaping:
<http://www.abcwua.org/content/view/73/63/>

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C – Construction Mitigation

~~**Policy CM:**~~ Any damage to the vegetation, slope, or placement of boulders due to or related to construction shall be mitigated as provided herein.

~~**Standard Policy CM-1:**~~ Prior to beginning construction, the property owner shall construct a temporary silt fence at the site boundary adjacent to sensitive lands (i.e. the Escarpment Buffer, Major Open Space Area, archeological site, or public or private conservation area to be maintained in natural desertscape) to effectively barricade it protect them from heavy equipment and vehicles. Photographs of the site in its original condition shall be submitted with the application for building permit and subdivision and/or site development plan.

~~**Policy CM-2:**~~ Prior to beginning construction, the property owner shall construct a temporary fence at the Development Envelope boundary and at the parcel boundary (except for the interior lot lines of parcels developed at the same time) within the Conservation Residential, and Suburban Residential–Large Lot land use designations to protect natural desertscape in the Conservation Easement area to effectively barricade it from heavy equipment and vehicles.

~~**Standard Policy CM-2-3:**~~ Public- and private-sector projects within the Conservation Area and the Impact Area facing the Escarpment and adjacent to archeological sites must include geotechnical data and analysis that demonstrate to the satisfaction of the City Engineer that proposed trenching or blasting will not affect the face of the Escarpment, potentially causing erosion or caving of the slopes and boulders and thereby threatening public safety or welfare or otherwise damage archeological resources.

~~**Standard Policy CM-3-4:**~~ The following standard applies in the selection of alignment and in site design:

- a. Grading plans shall demonstrate that cut and fill has been kept to a minimum consistent with the standards in this Plan. Generally, the overall topography of the site is not to be substantially altered.
- ~~b. Minimum width of disturbance to slopes and vegetation and minimum cut and fill, balanced against the need to provide for bikeways or other amenities within the right-of-way.~~

~~**Standard Policy CM-4-5:**~~ Replacement of boulders shall be to the approximate the original location, angle, and surface exposure. Revegetation to approximate original cover with appropriate native or naturalized plants as identified in **General Regulation B - Plant List A** is required within 90 days of project completion. A variance deviation may be granted by the Planning Director or his/her designee if the type of vegetation or time of year make revegetation within 90 days impossible. For infrastructure projects on public lands, the construction company shall post a warranty bond effective for three years after completion of the infrastructure work to insure successful revegetation. [5]

Standard Policy CM-5-6: The City shall be responsible for restoring existing damaged areas that lie within Major Public Open Space. The property owner shall be responsible for restoring damaged areas on lands accepted by the City to meet open space requirements if that damage occurred after the adoption of the Volcano Trails Sector Development Plan; this shall occur prior to title transfer if the land is to be deeded to the City and shall be an ongoing responsibility of the property owner if the land remains private open space.

Standard Policy CM-6-7: Existing cuts that are used as trail locations shall be stabilized and revegetated at the time of trail construction.

Standard Policy CM-7-8: As Major Public Open Space is acquired by the City, damaged areas shall be protected from further abuse and reseeded.

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Chapter 4 – General Regulations

D – ~~Stormwater~~ Rainwater Design & Management Standards

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~~The drainage right-of-way of the North and Middle Forks of the Boca Negra Arroyo should remain as undisturbed desert with natural vegetation, rock formations, and drainageway intact. If the option of~~ Improved naturalistic channel ~~is used, the~~ design ~~will shall~~ retain as much undisturbed desert vegetation and rock formations insofar as practicable.

Standard Policy RDM-1: Channel treatments shall meet the following requirements:

1. Limited stabilization of natural channels, according to the policies contained in the “Facility Plan for Arroyos,” unless such treatment is determined to be infeasible by the City Hydrologist or the Albuquerque Metropolitan Flood Control Authority as appropriate.
2. Use of many small, unobtrusive structures, such as check dams or small drop structures, rather than larger, more obtrusive structures, when structural solutions are required.
3. Use of materials in treated channels that blend visually with the Escarpment and adjacent open space. Naturalistic treatments, ~~such as rip-rap, gabions, or tinted concrete,~~ are the preferred treatment types.
4. Protection of canyons from erosion through control of developed flows and through stabilization techniques ~~which that~~ are consistent with the visual character of the open space.

Standard Policy RDM-2: Developed flows shall be managed to minimize their impact on Major Public Open Space, North Geologic Window, archeological sites, and the Escarpment. The potential impacts of water retention ~~shoudt shall~~ be thoroughly studied prior to use of detention areas to control flows. ~~Rainwater detention ponds shall be fully lined.~~

Standard Policy RDM-3: Within large areas of open space, developed flows shall be modified through check dams or other means to approximate undeveloped flows to minimize impacts on the Escarpment and to minimize the intensity of channel treatment required. The impact of check dams as a method of controlling flows ~~shoudt shall~~ be thoroughly studied prior to their use. [11]

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