# AVILLA RANCHO VISTOSO (EAST) REZONING SITE ANALYSIS

(2200136)

**PREPARED FOR:** 

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IN COLLABORATION WITH:









**JUNE 2022** 

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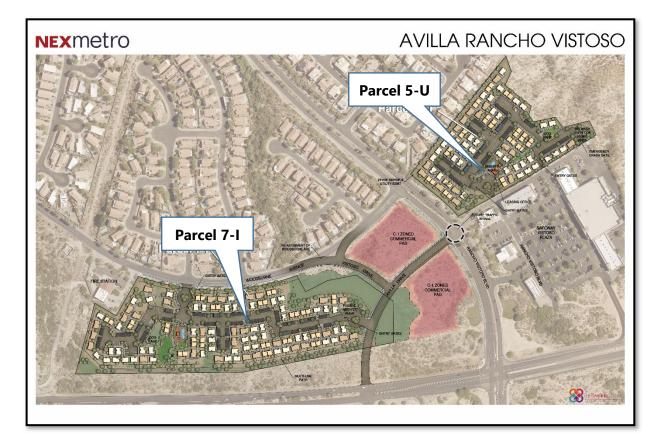
#### PARADIGM #19AVN01

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## I. INTRODUCTION

#### A. **PROJECT OVERVIEW**

Avilla Rancho Vistoso is a proposed residential leased home neighborhood located within the Rancho Vistoso Planned Area Development. The project includes portions of Parcel 5-U and 7-I of the PAD. Because the parcels have different underlying ownership they must be processed as two separate rezoning requests. This Site Analysis is applicable to Parcel 5-U, which is the Eastern portion of the project. The Subject Property (the "Property") consists of 8.0± acres and is currently undeveloped. The Property is located just north of the Safeway Shopping Center at the northeast corner of Tangerine Road and Rancho Vistoso Blvd. in Oro Valley, Arizona. As a master planned community, Rancho Vistoso appropriately included sufficient commercial land to meet the needs of its anticipated population. However, over the years Rancho Vistoso has developed at roughly twothirds of its originally envisioned residential density. A commensurate drop in need for commercial land has resulted, which has caused this and other commercially zoned properties to remain undeveloped. As Rancho Vistoso rapidly approaches build-out, the prospects grow dim that enough additional homes will be built in the area to support the development of the smaller, neighborhoodlevel commercial lands such as this one within the PAD. The Your Voice Our Future General Plan designates this Property as Neighborhood Commercial / Office within a Tier 2 Growth Area and is appropriate for the Property, as proposed. The Property is surrounded by residential developments, a commercial shopping center, undeveloped parcels, and open space.



This document has been prepared in support of a request to rezone the Property from "C-1 Commercial District" within the Rancho Vistoso PAD to "HDR High-Density Residential," in the PAD in order to allow the development as proposed. HDR is allowed as a comparable zone to R-6 under the Oro Valley General Plan's Neighborhood Commercial / Office land use designation.

#### B. PRIMARY OBJECTIVES

- Provide much needed high-quality, energy efficient, single-family, rental casitas for new residents wishing to live in the Town of Oro Valley. Very strong demand for new housing options continues to exist in this northern part of the greater Tucson metropolitan area.
- Provide a residential transition between the commercial properties to the south and the residential neighborhoods to the north.
- Provide additional customers for local businesses, which also bolsters Oro Valley's tax base.
- Fill an unmet demand within Oro Valley's spectrum of housing options.
- Provide additional housing options in response to needs expressed by some of Oro Valley's largest employers.



## II. INVENTORY & ANALYSIS

The purpose of the Inventory & Analysis section of this document is to catalog the various developmental opportunities and constraints impacting the property in order to provide a meaningful and relevant context for the development proposal detailed in Section III of this document. Through careful consideration of these existing conditions a design can be deemed compatible with its surroundings and appropriate for the area.

## A. EXISTING LAND USES

1. Regional Context

The Property subject to this rezoning request consists of  $8.0\pm$  acres located in the Town of Oro Valley in Section 36, Township 11 south, Range 13 east, Pima County Arizona. The site is northeast of Tangerine Road and Rancho Vistoso Blvd., just north of the Safeway Shopping Center in the Rancho Vistoso PAD. The Pima County tax assessor designates the subject property as parcel number 219-54-003B. See Exhibit II-A-1: Site Location Map.

The Project's administrative address is 12176 N Rancho Vistoso Blvd.

2. Existing Onsite Land Uses, Zoning & General Plan

The Property is currently undeveloped and vacant. See Exhibit II-A-2: Existing Land Uses.

The Property is currently zoned C-1 (Commercial District) and Open Space in the Rancho Vistoso PAD.

The Your Voice Our Future General Plan designates this Property as Neighborhood Commercial / Office within a Tier 2 Growth Area and is appropriate for the Property, as proposed. As stated in the General Plan, Growth Areas are areas "that are particularly suitable transportation for planned multimodal and infrastructure expansion and improvements designed to support a planned concentration of a variety of uses, such as residential, office, commercial, tourism and industrial uses. These areas are open for a range of more intensive development."



- 3. Existing Adjacent Zoning and Land Uses
  - i. Surrounding Zoning & Land Uses

The Property is surrounded by properties featuring the following zoning designations and land uses.

N:	Existing zoning: Existing land use:	HDR (High Density Residential – PAD) & Open Space - PAD Horizons Single-Family Residential Subdivision & Vacant Land
NE:	Existing zoning: Existing land use:	Open Space – PAD & CI (Cultural Institutional -PAD) Vacant Land
E:	Existing zoning: Existing land use:	Open Space - PAD Vacant Land & Big Wash
SE:	Existing zoning: Existing land use:	Open Space - PAD Vacant Land
S:	Existing zoning: Existing land use:	C-1 (Community Commercial – PAD) Safeway Vistoso Plaza Shopping Center
SW:	Existing zoning: Existing land use:	C-1 (Community Commercial – PAD) Rancho Vistoso Blvd. & Vacant Land
W:	Existing zoning:	C-1 (Community Commercial – PAD) & HDR (High Density Residential – PAD)
	Existing land use:	Rancho Vistoso Blvd. & Reflections Single-Family Residential Subdivision
NW:	Existing zoning: Existing land use:	HDR (High Density Residential – PAD) Horizons Single-Family Residential Subdivision

#### *ii.* Surrounding Building Heights

Surrounding buildings are a mixture of one & two story, with residential structures up to approximately 24 feet and commercial structures up to 34 feet in height.

#### iii. Nearby Pending Rezonings

Parcel 7-I, which is the Western portion of Avilla Rancho Vistoso, is proposed several hundred feet to the west of the property.

iv. Nearby Conditionally Approved Rezonings

There are no conditionally approved rezonings within one-quarter mile.

v. Nearby Approved Subdivisions & Development Plans

The Valley Vista at Rancho Vistoso Subdivision has recently been approved and is currently under construction. It is approximately one-quarter mile north of the subject property.

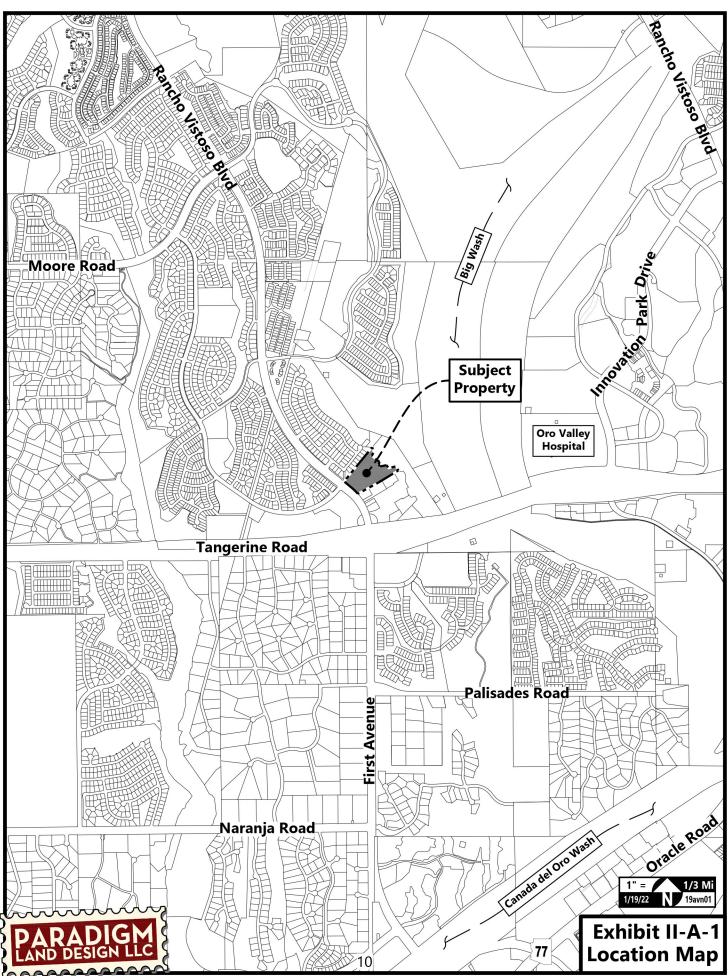


vi. Architectural Styles used in Adjacent Properties

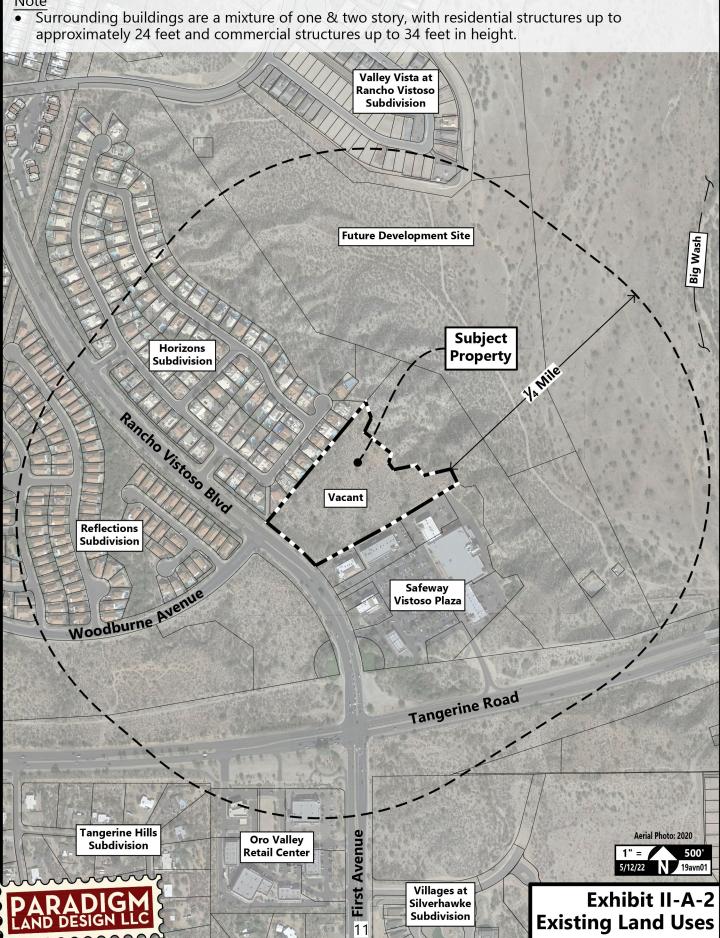
The architectural styles used in adjacent residential and commercial projects are mainly wood

frame or block construction that utilize a stucco and/or stone veneer and have either a flat or tiled roof.

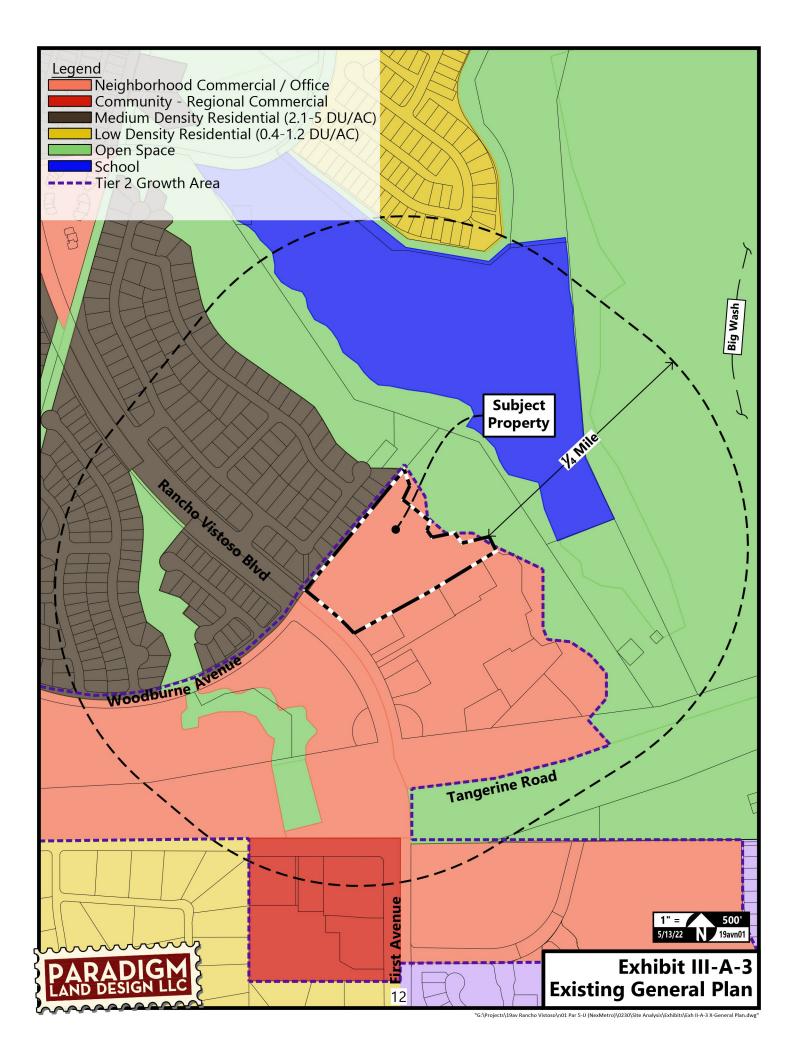


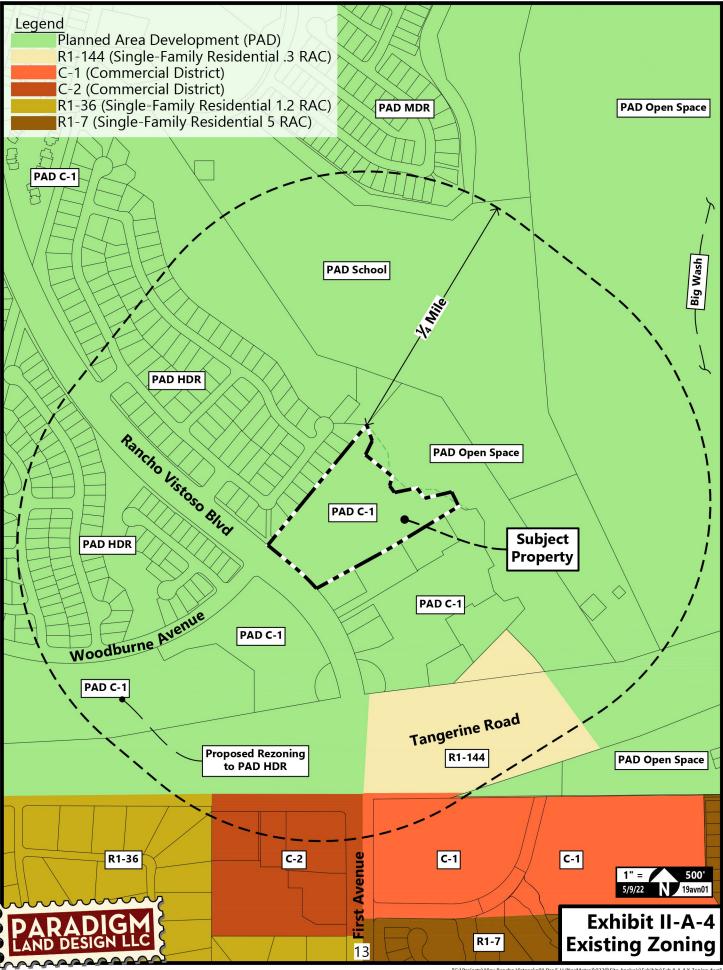


#### Note



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#### B. Environmentally Sensitive Lands (ESL)

1. ESL Categories Onsite

ESL does not apply to this site because it is in Rancho Vistoso.

2. Additional ESL Characteristics

There are no regulated rock outcrops, distinctive native plant stands, or distinctive individual native plants on the subject property.

3. Total Acreage Present Onsite for each Conservation Category

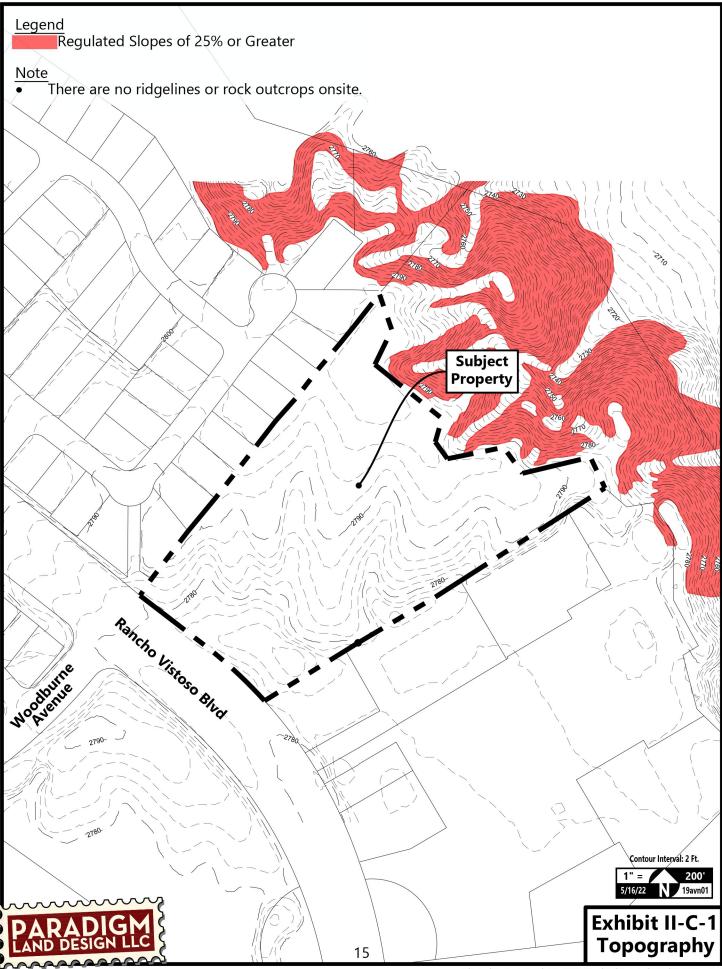
Conservation Category	Acreage
Major Wildlife Linkage	0
Critical resource Area	0
Core Resource Area	0
Resource Management Area Tier 1	0
Resource Management Area Tier 2	0
Resource Management Area Tier 3	8.0±

#### C. TOPOGRAPHY

1. Topographic Characteristics

The topography of the Property is characterized by relatively flat terrain and some undulating areas towards the rear of the property where it drops off towards the Big Wash. The property generally slopes gently downward from north to south. Elevations range from approximately 2,796 feet above sea level at the northern corner to approximately 2,764 feet above sea level at the existing culvert near the southern corner of the property. The Property does not contain any hillside conservation areas, rock outcrops, regulated slopes of 25% or greater, or other significant topographic features. See Exhibit II-C-1: Topography.

Regulated Topographic Feature Category	Acreage
15% to less than 18%	0
18% to less than 20%	0
20% to less than 25%	0
25% to less than 33%	0
33% or greater	0
Ridgelines	0
Rock Outcrops & Boulders	0



#### D. CULTURAL / ARCHAEOLOGICAL / HISTORIC RESOURCES

The subject property was intensively surveyed in 1986 by the Institute for American Research (IAR), as part of the "Rancho Vistoso Survey". The survey covered about 7,700 acres and documented 54 archaeological sites. Within the subject property, IAR archaeologists did not identify any archaeological sites. Because this original survey was conducted over 30 years ago, the subject property was recently resurveyed by SWC16A Environmental Consultants (SWCA) in October 2021. No archaeological resources were identified during this re-survey.

No further archaeological study of the project area is recommended. In the unlikely event that buried archaeological features or human remains are unearthed during construction, all work should stop in the immediate vicinity of the discovery and an archaeologist should be contacted to verify the discovery and assess its significance.

SKY?	
SSI	
R	S43 Weat Franklin Street Tuccor, Arizona 85701
	ENVIRONMENTAL CONSULTANTS
2136	Sound Science. Creative Solutions.*
	October 15, 2021
	Jared Geisler NexMetro Communities
	2355 East Camelback Road, Suite 805 Phoenix, Arizona 85016
	Re: Cultural Resources Survey of Parcels 5-U and 7-I, Oro Valley, Pima County, Arizona / SWCA Project No. 67588-002
	Dear Mr. Geisler:
	At your request, SWCA Environmental Consultants (SWCA) conducted a cultural resources (archaeological) survey of Parcels 5-U and 7-I (project area) at the north of Tangerine Road on both sides of Rancho Vistoso Boulevard, Oro Valley, Pima County, Arizona. The project area is 31 acres and is located in Section 36, Township 11 South, Range 13 East (Figure 1). It consists of undeveloped desert crossed by multiple dirt roads and trails.
	Previous Research
	In 1986, the Institute for American Research (IAR) conducted fieldwork for the Rancho Vistoso archaeological survey. <sup>1</sup> The survey covered about 7,700 acres and documented 54 archaeological sites. Within the current project area, IAR archaeologists did not identify any archaeological sites.
	2021 Survey
	The IAR survey of the project area was conducted 30 years ago. The State Historic Preservation Office recommends that areas not surveyed for cultural resources within the last 10 years be resurveyed, unless an argument can be made for relying on the old survey data. Because the project area is located in a part of Rancho Vistoso known for its Hohokam prehistory and because the IAR survey was conducted prior to the use of GPS technology for mapping archaeological site locations, re-survey of the project area was deemed prudent.
	Eric Petersen conducted the archaeological re-survey of the project area on October 6, 2021. He walked parallel transects spaced no more than 20 meters apart over the entire project area. A handheld GPS unit was used to record the location of archaeological findings.
	No archaeological resources were identified during this re-survey.
	<sup>1</sup> Craig, Douglas B, and Henry D. Wallace. 1987. Prehistoric Settlement in the Cañada del Oro Valley, Arizona: The Rancho Vistoso Survey Project. Anthropological Papers No. 8. Institute for American Research, Tucson, Arizona.

#### E. HYDROLOGY

This section of the site analysis describes pre-development onsite hydrologic and hydraulic characteristics. Please refer to Exhibit II-E-1 and Exhibit II-E-2.

1. Offsite Watersheds Affecting, or Affected by, the Site

The upstream watershed is approximately 30 acres and is completely developed. Most of the Horizons subdivision to the north drains into the subject property. A portion of Rancho Vistoso Blvd. drains through the site via existing stormdrains. The eastern edge of the Subject Property runs along a ridgeline forming a watershed boundary. Storm drainage from the site, upstream watershed, and existing stormdrains collect at an existing 42" SRP inlet neat the southwestern corner of the site. The 42" pipe then exits the site in a southerly direction, collecting additional drainage from the Safeway shopping center.

2. Balanced & Critical Basins

Per Section 11.3 of the Oro Valley Drainage Criteria Manual, "all basins within the Town of Oro Valley shall be considered Critical Basins." As a result of this Critical Basin designation, the 100-year flood stormwater flows exiting the site in the proposed condition are required to match the existing condition flows or be reduced by means of detention and/or other rainwater harvesting techniques.

3. Significant Offsite Features Affecting or Affected by the Property

Although not significant, manmade drainage structures upstream of the property include the existing stormdrains mentioned in Section II.E.1. and the existing concrete channel exiting the Horizons subdivision into the Subject Property.

4. Area of Upstream Watersheds with 100-Year Discharges Greater than 100 CFS

None.

5. Location / Ownership of Well Sites within 100' of the Site

No wells are known to exist within 100' of the site.

- 6. Onsite Hydrology Characteristics
  - i. 100-year Floodplains with Peak Discharges  $\geq$  50 CFS

The channel draining into the site from the Horizons subdivision produces a Q100 of approximately 82 CFS, creating a floodplain that runs along the site's Rancho Vistoso Blvd. frontage before draining into the existing 42" SRP described above.

*ii.* Areas of Sheet Flooding and Average Depths

None onsite.

iii. Federally mapped floodways and floodplains

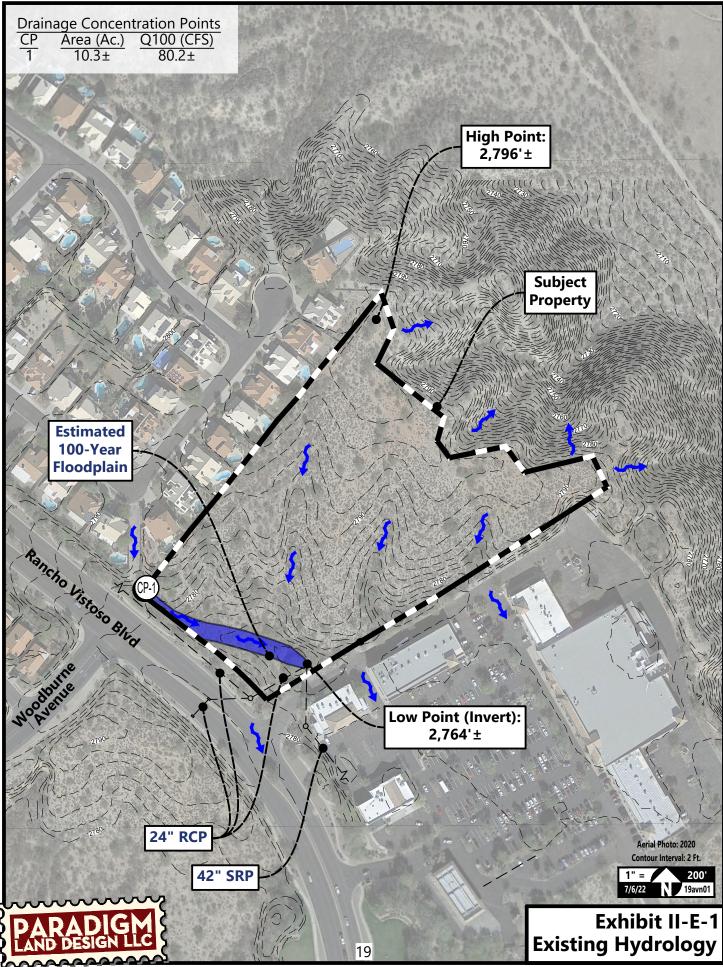
The FEMA Flood Insurance Rate Map Panel 04019C1090L shows the entire Property to be in Zone X which indicates "areas determined to be outside the 0.2% annual chance floodplain". See Exhibit II-E-2: FEMA Map.

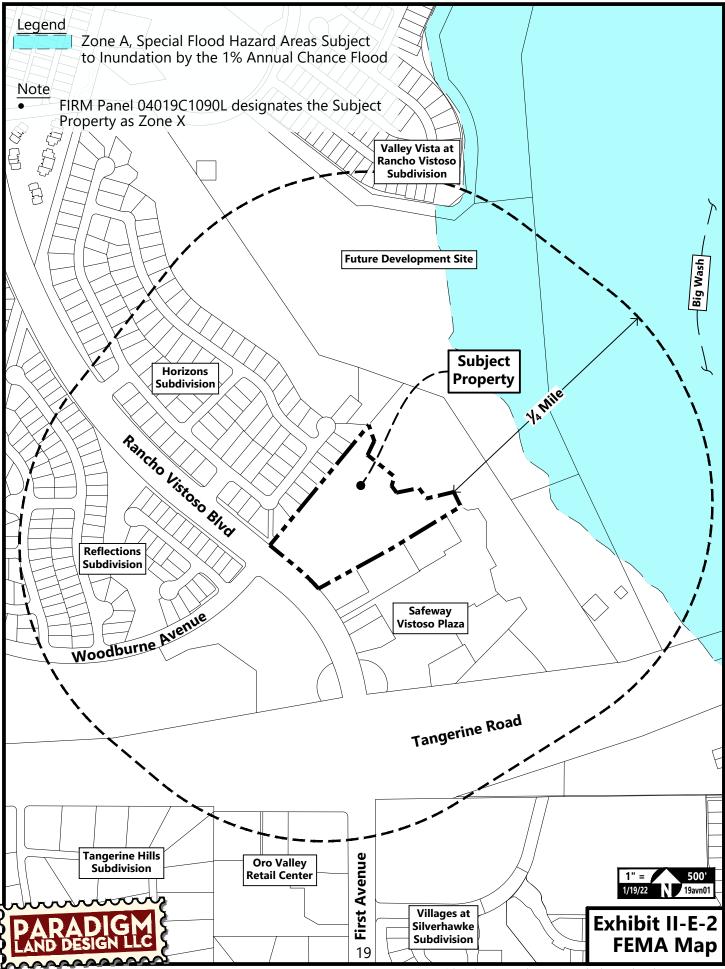
iv. Calculation of all 100-year peak discharges exceeding 50 CFS

Stormwater flows existing the site post-development will not exceed those currently exiting the site.

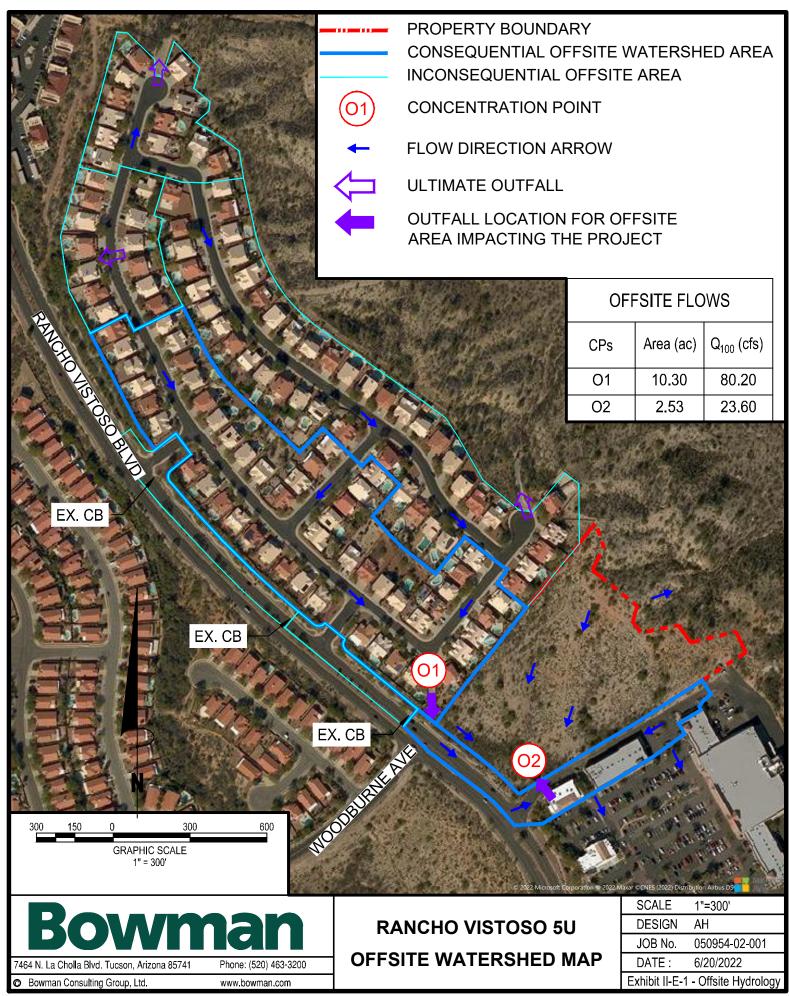
7. Existing Drainage Conditions along the Downstream Property Boundary

As described above, most drainage exiting the property does so via an existing 42" SRP near the southwest corner of the site.





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V:\050954 - Cadence at Rancho Vistoso - Multifamily\050954-02-001 (ENG) - Avilla at Rancho Vistoso BFR\Engineering\Exhibits\Drainage\050954-Offsite Watershed Map.dwg 06/20/2022

#### F. VEGETATION

1. Onsite Vegetative Communities

The vegetation community on the property is typical of the Sonoran Desertscrub Paloverde-Mixed Cacti, which includes Palo Verde, Mesquite, Cholla, Prickly Pear, and Barrel Cactus.

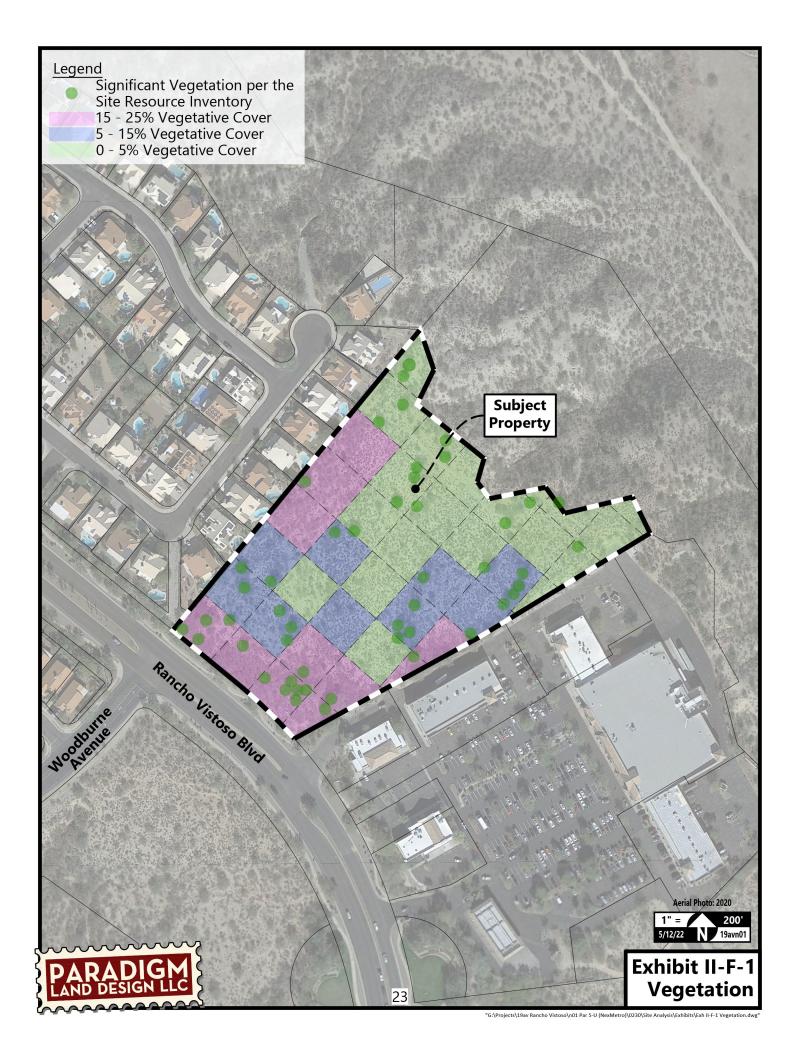
2. Significant, Threatened, or Endangered Flora

No threatened or endangered flora are known to exist onsite. Individual plants meeting Oro Valley's definition of "significant" are shown on the site resource inventory. See Appendix A: Site Resource Inventory.

3. Vegetative Densities

Vegetative density of the Property is approximately 25% plant cover. See Exhibit II-F-1: Vegetation.

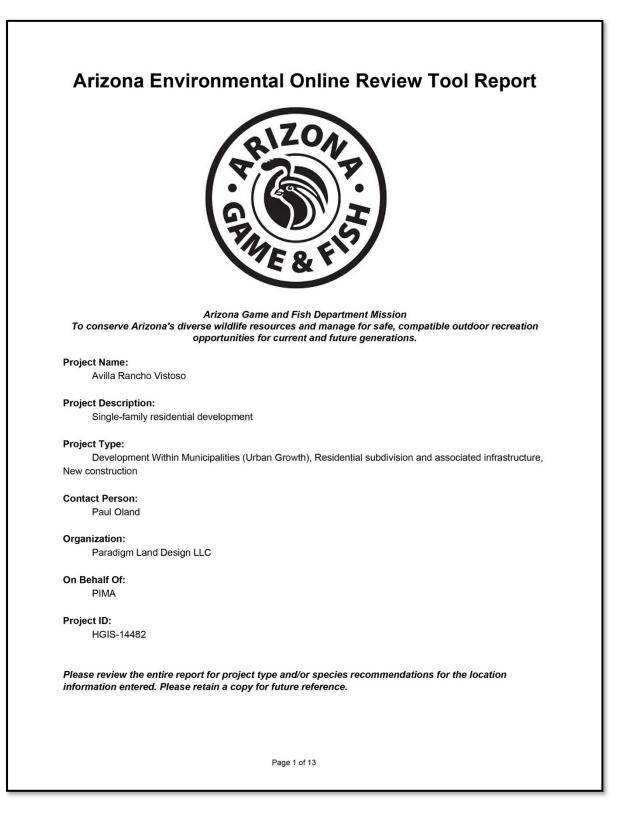




### G. WILDLIFE

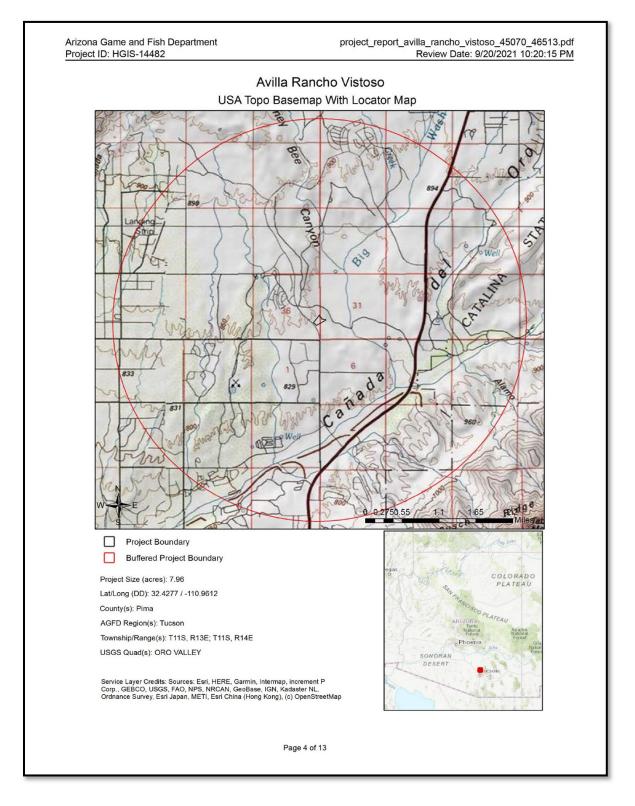
The Arizona Game and Fish Department's online review tool has been consulted, and the Environmental Review report, dated August 20, 2021, indicates that several federally listed species have been known to exist in the vicinity of this development. Any protected species encountered onsite will be handled according to applicable regulatory criteria. See Exhibit II-G-1: AZGFD Report.

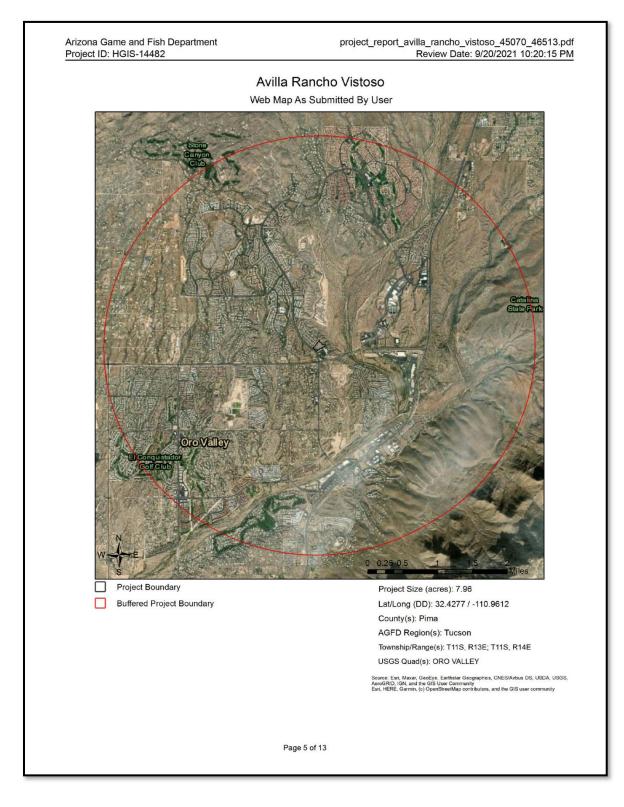
#### Exhibit II-G-1: AZGFD Report

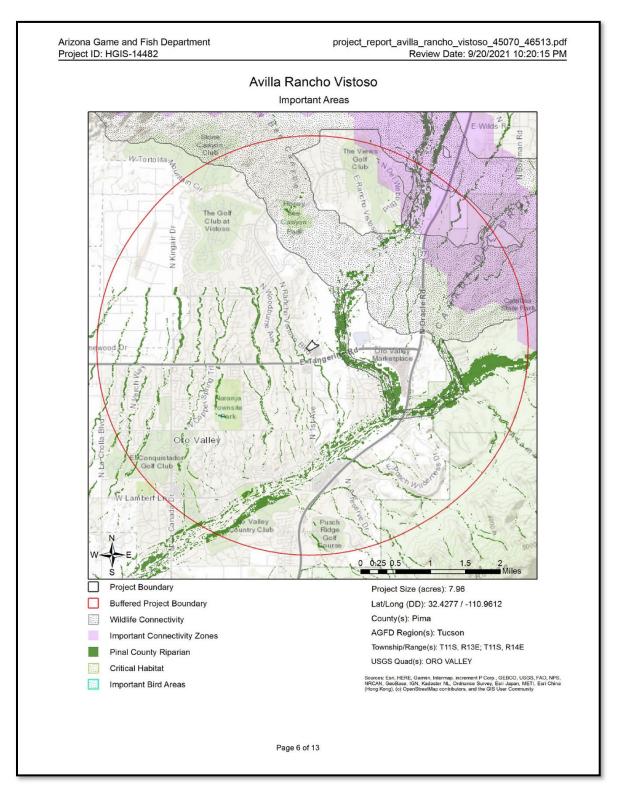


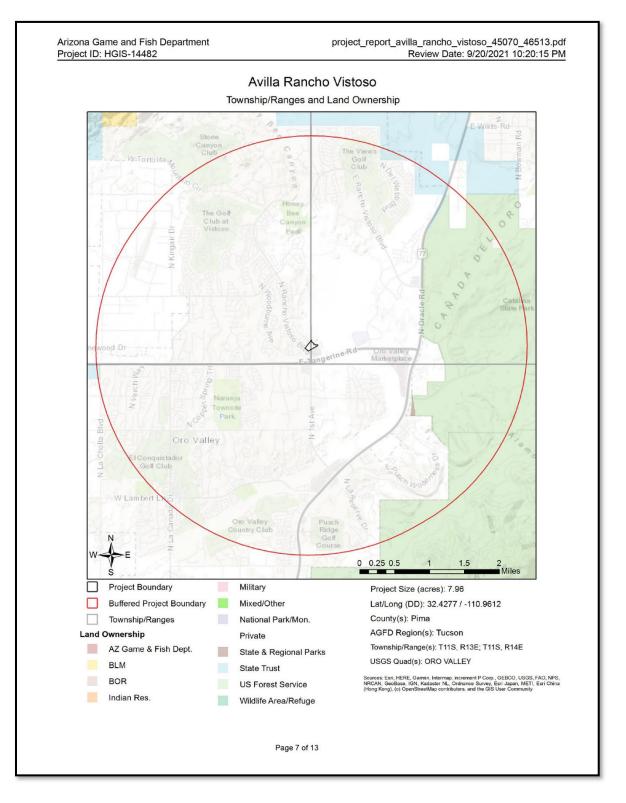
	Review Date: 9/20/2021 10:20:15 PM
Disclaimer:	
<ul> <li>updated if the project study area, location, or the 2. This is a preliminary environmental screening to gained by having a biologist conduct a field surverse place environmental consultation (including feland use permitting, or the Departments review)</li> <li>The Departments Heritage Data Management S distribution of special status species. Arizona is environmental conditions that are ever changing biologists do not know about or species previou HDMS data contains information about species Department. Not all of Arizona has been survey conducted have varied greatly in scope and inter undocumented population of species of special</li> <li>HabiMap Arizona data, specifically Species of Ecor potential species distribution models for the Sta modification and refinement. The status of a will new data will necessitate a refined assessment.</li> </ul>	bol. It is not a substitute for the potential knowledge yey of the project area. This review is also not intended to deral consultation under the Endangered Species Act), of site-specific projects. System (HDMS) data is not intended to include potential large and diverse with plants, animals, and g. Consequently, many areas may contain species that sly noted in a particular area may no longer occur there. occurrences that have actually been reported to the ed for special status species, and surveys that have been ensity. Such surveys may reveal previously concern. Breatest Conservation Need (SGCN) under our State ponomic and Recreational Importance (SERI), represent te of Arizona which are subject to ongoing change, dlife resource can change quickly, and the availability of

Project IL	D: HGIS-14482	Review Date: 9/20/2021 10:20:15 PM
Recor	mmendations Disclaimer:	
1.	. The Department is interested in the conservation of species listed in this report and those that may have	
2.	well as other game and nongame wildlife. Recommendations have been made by the Departm	nent, under authority of Arizona Revised Statutes
3.	Title 5 (Amusements and Sports), 17 (Game and Fis Potential impacts to fish and wildlife resources may generated from information submitted for your propo	
4.		
5.	and/or new project proposals. Further coordination with the Department requires the a cover letter and project plans or documentation the how construction or project activity(s) are to be accor- site map). Once AGFD had received the information reviews. Send requests to: Project Evaluation Program, Habitat Branch Arizona Game and Fish Department	at includes project narrative, acreage to be impacted, mplished, and project locality information (including
	5000 West Carefree Highway Phoenix, Arizona 85086-5000 Phone Number: (623) 236-7600 Fax Number: (623) 236-7366 Or	
6.	PEP@azgfd.gov Coordination may also be necessary under the Nation Endangered Species Act (ESA). Site specific recomn NEPA/ESA analysis or through coordination with aff	mendations may be proposed during further
	Page 3 of 13	
	i age 5 0i 15	









Special Statu	s Species Documented within 3 Mile	s of Pro	ject Vici	inity		
Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Abutilon parishii	Pima Indian Mallow	SC	S	S	SR	
Aspidoscelis stictogramma	Giant Spotted Whiptail	SC	S			1B
Coccyzus americanus	Yellow-billed Cuckoo (Western DPS)	LT	S	S		1A
Empidonax traillii extimus	Southwestern Willow Flycatcher	LE				1A
Falco peregrinus anatum	American Peregrine Falcon	SC	S	S		1A
Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	SC	S	S		1B
Gopherus morafkai	Sonoran Desert Tortoise	С	S	S		1A
Heloderma suspectum	Gila Monster					1A
Lepus alleni	Antelope Jackrabbit					1B
Lithobates yavapaiensis	Lowland Leopard Frog	SC	S	S		1A
Special Areas I	Documented that Intersect with Proje	ct Foot	print as		NDI	SGCN
Riparian Area Note: Status code definitions can be	Common Name Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with					sdefinitio
Species of Greatest Conservation	Riparian Area found at <u>https://www.azgfd.com/wildlife/</u> on Need Predicted that Intersect with Predicted Range Models	'plannin Projec	g/wildlife t Footpri	guidelin int as D	es/statu rawn, b	sdefinition ased on
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name	(plannin	g/wildlife	guidelin	es/statu	sdefinition ased on SGCN
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck	'plannin Projec	g/wildlife t Footpri	guidelin int as D	es/statu rawn, b	sdefinition ased on SGCN 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel	<sup>(</sup> plannin) Projec FWS	g/wildlife t Footpri	guidelin int as D	es/statu rawn, b	sdefinition ased on SGCN 1B 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit	'plannin Projec	g/wildlife t Footpri USFS	guidelin int as D	es/statu rawn, b	sdefinition ased on SGCN 1B 1B 1B 1A
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar	rojec FWS SC	g/wildlife t Footpri	guidelin int as D BLM	es/statu rawn, b	ased on SGCN 1B 1B 1A 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle	<sup>(plannin)</sup> Projec FWS SC BGA	g/wildlife t Footpri USFS	guidelin int as D	es/statu rawn, b	sdefinition ased on SGCN 1B 1B 1B 1A
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle Giant Spotted Whiptail	rojec FWS SC	g/wildlife t Footpri USFS S	guidelin int as D BLM	es/statu rawn, b	ased on SGCN 1B 1B 1A 1B 1B 1B 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis xanthonota	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle	Projec FWS SC BGA SC	g/wildlife t Footpri USFS S S	guidelin int as D BLM	es/statu rawn, b	ased on SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis xanthonota Botaurus lentiginosus	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle Giant Spotted Whiptail Red-backed Whiptail American Bittern	Projec FWS SC BGA SC	g/wildlife t Footpri USFS S S	guidelin int as D BLM	es/statu rawn, b	ased on SGCN 1B 1B 1A 1B 1B 1B 1B 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis xanthonota Botaurus lentiginosus Calypte costae	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle Giant Spotted Whiptail Red-backed Whiptail American Bittern Costa's Hummingbird	Projec FWS SC BGA SC	g/wildlife t Footpri USFS S S	guidelin int as D BLM	es/statu rawn, b	ased on SGCN 1B 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B 1B 1B 1C
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Aspidoscelis stanthonota Botaurus lentiginosus Calypte costae Chilomeniscus stramineus	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle Giant Spotted Whiptail Red-backed Whiptail American Bittern	Projec FWS SC BGA SC	g/wildlife t Footpri USFS S S	guidelin int as D BLM	es/statu rawn, b	ased on SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B 1B 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Aspidoscelis stanthonota Botaurus lentiginosus Calypte costae Chilomeniscus stramineus Colaptes chrysoides	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle Giant Spotted Whiptail Red-backed Whiptail Red-backed Whiptail American Bittern Costa's Hummingbird Variable Sandsnake Gilded Flicker	Projec FWS SC BGA SC	g/wildlife t Footpri USFS S S	guidelin int as D BLM S	es/statu rawn, b	sdefinition ased on 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B 1B 1C 1B 1B 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Aspidoscelis stictogramma Calupte costae Chilomeniscus stramineus Colaptes chrysoides Coluber bilineatus	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle Giant Spotted Whiptail Red-backed Whiptail Red-backed Whiptail American Bittern Costa's Hummingbird Variable Sandsnake Gilded Flicker Sonoran Whipsnake	Projec FWS SC BGA SC	g/wildlife t Footpri USFS S S	guidelin int as D BLM S	es/statu rawn, b	ased on SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B 1B 1B 1C 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Aspidoscelis stictogramma Botaurus lentiginosus Calypte costae Chilomeniscus stramineus Colaptes chrysoides Coluber bilineatus Corynorhinus townsendii pallescens	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle Giant Spotted Whiptail Red-backed Whiptail Red-backed Whiptail American Bittern Costa's Hummingbird Variable Sandsnake Gilded Flicker Sonoran Whipsnake Pale Townsend's Big-eared Bat	Projec FWS SC BGA SC SC	g/wildlife t Footpri USFS S S S	guidelin int as D BLM S	es/statu rawn, b	ased on SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B 1C 1B 1B 1B 1B 1B 1B 1B 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Aspidoscelis stictogramma Botaurus lentiginosus Calypte costae Chilomeniscus stramineus Colaptes chrysoides Coluber bilineatus Corynorhinus townsendii pallescens Crotalus tigris	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle Giant Spotted Whiptail Red-backed Whiptail Red-backed Whiptail American Bittern Costa's Hummingbird Variable Sandsnake Gilded Flicker Sonoran Whipsnake Pale Townsend's Big-eared Bat Tiger Rattlesnake	Projec FWS SC BGA SC SC	g/wildlife t Footpri USFS S S S	guidelin int as D BLM S	es/statu rawn, b	sdefinition ased on 1B 1B 1B 1A 1B 1B 1B 1B 1B 1C 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B
Riparian Area Note: Status code definitions can be Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii	Riparian Area found at https://www.azgfd.com/wildlife/ on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar Golden Eagle Giant Spotted Whiptail Red-backed Whiptail Red-backed Whiptail American Bittern Costa's Hummingbird Variable Sandsnake Gilded Flicker Sonoran Whipsnake Pale Townsend's Big-eared Bat	Projec FWS SC BGA SC SC	g/wildlife t Footpri USFS S S S S	guidelin int as D BLM S	es/statu rawn, b	ased on SGCN 1B 1B 1B 1A 1B 1B 1B 1B 1B 1C 1B 1B 1B 1B 1B 1B 1B 1B 1B

Project ID: HGIS-14482						10:20:15		
Species of Greatest Conservation Need Predicted that Intersect with Project Footprint as Drawn, based on Predicted Range Models								
Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN		
Euderma maculatum	Spotted Bat	SC	S	S		1B		
Eumops perotis californicus	Greater Western Bonneted Bat	SC		S		1B		
Falco peregrinus anatum	American Peregrine Falcon	SC	S	S		1A		
Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	SC	S	S		1B		
Gopherus morafkai	Sonoran Desert Tortoise	С	S	S		1A		
Haliaeetus leucocephalus	Bald Eagle	SC, BGA	S	S		1A		
Heloderma suspectum	Gila Monster					1A		
Incilius alvarius	Sonoran Desert Toad					1B		
Kinosternon sonoriense sonoriense	Desert Mud Turtle			S		1B		
Lasiurus blossevillii	Western Red Bat		S			1B		
Lasiurus xanthinus	Western Yellow Bat		S			1B		
Leopardus pardalis	Ocelot	LE				1A		
Leptonycteris yerbabuenae	Lesser Long-nosed Bat	SC				1A		
Lepus alleni	Antelope Jackrabbit					1B		
Macrotus californicus	California Leaf-nosed Bat	SC		S		1B		
Melanerpes uropygialis	Gila Woodpecker					1B		
Meleagris gallopavo mexicana	Gould's Turkey		s			1B		
Melospiza lincolnii	Lincoln's Sparrow					1B		
Melozone aberti	Abert's Towhee		S			1B		
Micrathene whitneyi	Elf Owl					1C		
Micruroides euryxanthus	Sonoran Coralsnake					1B		
Myiarchus tyrannulus	Brown-crested Flycatcher					1C		
Myotis occultus	Arizona Myotis	SC		S		1B		
Myotis velifer	Cave Myotis	SC		S		1B		
Myotis yumanensis	Yuma Myotis	SC				1B		
Nyctinomops femorosaccus	Pocketed Free-tailed Bat					1B		
Oreoscoptes montanus	Sage Thrasher					1C		
Oreothlypis luciae	Lucy's Warbler					1C		
Panthera onca	Jaguar	LE				1A		
Peucaea carpalis	Rufous-winged Sparrow					1B		
Phrynosoma solare	Regal Horned Lizard					1B		
Phyllorhynchus browni	Saddled Leaf-nosed Snake					1B		
Progne subis hesperia	Desert Purple Martin			S		1B		
Setophaga petechia	Yellow Warbler					1B		
Sphyrapicus nuchalis	Red-naped Sapsucker					1C		
Spizella breweri	Brewer's Sparrow					1C		
Tadarida brasiliensis	Brazilian Free-tailed Bat					1B		
Thomomys umbrinus intermedius	Southern Pocket Gopher					1B		

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Species of Greatest Conservation Need Predicted that Intersect with Project Footprint as Drawn, based on Predicted Range Models						
Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Toxostoma lecontei	LeConte's Thrasher			S		1B
Troglodytes pacificus	Pacific Wren					1B
Vireo bellii arizonae	Arizona Bell's Vireo					1B
Vulpes macrotis	Kit Fox	No Status				1B
Species of Economic an	d Recreation Importance Predict	ed that Intersect w	ith Proje	ect Foot	tprint a	s Drawn
Scientific Name	Common Name	FWS	USFS	BLM		SGCN
Callipepla gambelii	Gambel's Quail					
Odocoileus hemionus	Mule Deer					
Pecari tajacu	Javelina					
Puma concolor	Mountain Lion					
Zenaida asiatica	White-winged Dove					
Zenaida macroura	Mourning Dove					
Project Type Recommendat Fence recommendations will mpacted by the project. Gene bottom with the maximum fen considered for fencing anticip	be dependant upon the goals of the eral guidelines for ensuring wildlife- ce height 42", minimum height for b ated to be routinely encountered by	riendly fences inclu oottom 16". Modifica elk, bighorn sheep	he wildlif de: barb tions to f or prong	e specie less wire this desi ghorn (e	es expe e on the ign may .g., Pror	top and be nghorn
Project Type Recommendations will Fence recommendations will mpacted by the project. Gene bottom with the maximum fen considered for fencing anticip rencing would require 18" min on Wildlife Friendly Guideline	tions: be dependant upon the goals of the eral guidelines for ensuring wildlife-f ce height 42", minimum height for b	riendly fences inclu oottom 16". Modifica elk, bighorn sheep e refer to the Depar	he wildlif de: barb tions to f or prong	e specie less wire this desi ghorn (e	es expe e on the ign may .g., Pror	cted to be top and be nghorn
Project Type Recommendate Fence recommendations will mpacted by the project. Gene bottom with the maximum fen considered for fencing anticip iencing would require 18" min on Wildlife Friendly Guideline https://www.azgfd.com/wildlife During the planning stages of connectivity, and access to ha mates, reduces gene flow, pre altimately prevents wildlife fro numbers, and resistance to in or wildlife and should be main be contained within important can be facilitated through imp variety of wildlife. Guidelines f	tions: be dependant upon the goals of the eral guidelines for ensuring wildlife-1 ce height 42", minimum height for b ated to be routinely encountered by imum height on the bottom). Please s page, which is part of the WIIdlife	riendly fences inclu bottom 16". Modifica elk, bighorn sheep e refer to the Depar Planning button at bocal or regional nee- ity prevents wildlife eas where local ext ins, such as pollinal eams and washes p ds also support a la lition, maintaining b	he wildlif de: barb titons to to or prong tment's F ds of wild from acc rpations ion, seed rovide na rge diver iodiversit	te specie less wird this desi phorn (e rencing dife in re ressing r may ha d disper- atural m sity of s sy and e	es expe e on the ign may .g., Pror Guidelir egards t resource ve occu sal, con ovemen pecies, cosyste	cted to be top and be nghorn nes located o moveme es, finding rred, and trol of prey t corridors and should m functions
Project Type Recommendations will mpacted by the project. Gene bottom with the maximum fen- considered for fencing anticip iencing would require 18" min on Wildlife Friendly Guideline https://www.azgfd.com/wildlife During the planning stages of connectivity, and access to har mates, reduces gene flow, pro- ultimately prevents wildlife fro- numbers, and resistance to in for wildlife and should be mail be contained within important can be facilitated through imp variety of wildlife. Guidelines i at: https://www.azgfd.com/wild Consider impacts of outdoor I human safety while minimizin area, and evaluate proposed disrupt behavior patterns or h should be used as often as po	tions: be dependant upon the goals of the eral guidelines for ensuring wildlife-1 ce height 42", minimum height for b ated to be routinely encountered by imum height on the bottom). Please s page, which is part of the Wildlife e/planning/wildlifeguidelines/. 'your project, please consider the lo abitat needs. Loss of this permeabil events wildlife from re-colonizing ar m contributing to ecosystem function wasive species. In many cases, stre- ntained in their natural state. Upland- wildlife movement corridors. In add roving designs of structures, fences for many of these can be found	riendly fences inclu option 16". Modifica elk, bighorn sheep e refer to the Depar Planning button at ocal or regional nee- ity prevents wildlife eas where local ext ons, such as pollinal eams and washes p ds also support a la lition, maintaining b s, roadways, and cu sures or alternative luct wildlife surveys and natural history mount of light need s affected by lightin	he wildlid de: barb titons to to or prong timent's F ds of wild from acc royations ion, seed royations ion, seed royations roy	Te specie less wird this desi phorn (e fencing dlife in re ressing r may ha d disper- atural m sity of s y and e promote n be tak mine spe nine if a fety. Na	es expe e on the ign may .g., Pror Guidelir egards t resource ve occu sal, con ovemen pecies, cosyste e passag	cted to be top and be nghorn nes located o moveme es, finding mred, and trol of prey t corridors and should m functions ge for a crease thin project ighting may ectrum bul

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insects and pathogens. Precautions should be ta activities before entering and leaving the site. Se and restricted noxious weeds at <a href="https://www.inva">https://www.inva</a> Society <a href="https://aznps.com/invas">https://www.inva</a> Society <a href="https://aznps.com/invas">https://aznps.com/invas</a> for recommenda	xotic invasive species, including aquatic and terrestrial plants, animals, ken to wash and/or decontaminate all equipment utilized in the project e the Arizona Department of Agriculture website for a list of prohibited <u>sivespeciesinfo.gov/unitedstates/az.shtml</u> and the Arizona Native Plant tions on how to control. To view a list of documented invasive species o area visit iMapInvasives - a national cloud-based application for tracking atureserve.org/imap/services/page/map.html.
interest, and select "See What's Here" for	est, use the identify/measure tool to draw a polygon around your area of a list of reported species. To export the list, you must have an use the export tool to draw a boundary and export the records in a csv
environment and the visual resources, maintainin require a greater area due to in-flight drinking), a	pments should include: incorporation of aspects of the natural ng the water for a variety of species, water surface area (e.g., bats ccessibility, year-round availability, minimizing potential for water quality ral features, regular clean-up of debris, escape ramps, minimizing d mud.
temperature, and alteration to flow regimes (timin Minimize impacts to springs, in-stream flow, and project component, consider timing of the project (include spawning seasons), and to reduce sprea	and fish species due to changes in water quality, quantity, chemistry, ing, magnitude, duration, and frequency of floods) should be evaluated. consider irrigation improvements to decrease water use. If dredging is a in order to minimize impacts to spawning fish and other aquatic species ad of exotic invasive species. We recommend early direct coordination could impact water resources, wetlands, streams, springs, and/or
	as are conducted to determine if noise-sensitive species occur within the sould include conducting project activities outside of breeding
Based on the project type entered, coordination v (http://azstateparks.com/SHPO/index.html).	with State Historic Preservation Office may be required
	on as possible. Incorporate escape ramps in ditches or fencing along the na (snakes, lizards, tortoise) from entering ditches.
regional/comprehensive plans, their regional tran programs. An effective approach to wildlife plann protection, an assessment of important habitat bl wildlife components into the community plans and habitat blocks that can be maintained in their are or protected. Community planners should also we from other communities, to foster coordination and wildlife habitat connectivity. The Department's gu	ity and mobility of wildlife by incorporating wildlife planning into their sportation plans, and their open space/conservation land system ing begins with the identification of the wildlife resources in need of ocks and connective corridors, and the incorporation of these critical d programs. Community planners should identify open spaces and a, and the necessary connections between those blocks to be preserved ork with State and local transportation planning entities, and planners id cooperation in developing compatible development plans to ensure idelines for incorporating wildlife considerations into community Wildlife Friendly Guidelines portion of the Wildlife Planning page at <u>idelines/</u> .

### Exhibit II-G-1: AZGFD Report (cont'd)

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and substrates to carry expected discharge using loca barriers to allow movement of amphibians or fish (e.g. corridors often provide important corridors for movem for movement of the greatest number and diversity of consider moisture, light, and noise, while providing cle fencing is an important design feature that can be utili	etry, or design channel geometry (low flow, overbank, floodplains) al drainages of appropriate size as templates. Reduce/minimize ., eliminate falls). Also for terrestrial wildlife, washes and stream ent. Overall culvert width, height, and length should be optimized species expected to utilize the passage. Culvert designs should ear views at both ends to maximize utilization. For many species, ized with culverts to funnel wildlife into these areas and minimize vert designs to facilitate wildlife passage can be found on the home life/planning/wildlifeguidelines/.
Based on the project type entered, coordination with A ( <u>http://www.azdeq.gov/</u> ).	Arizona Department of Environmental Quality may be required
Based on the project type entered, coordination with A ( <u>https://new.azwater.gov/</u> ).	Arizona Department of Water Resources may be required
Based on the project type entered, coordination with l (http://www.usace.army.mil/)	U.S. Army Corps of Engineers may be required
Based on the project type entered, coordination with 0	County Flood Control district(s) may be required.
wildlife-human interactions through design features. F living with urban wildlife at <u>PEP@azgfd.gov</u> or	pace for wildlife movement, while also minimizing the potential for Please contact Project Evaluation Program for more information on lelines/ and https://www.azgfd.com/Wildlife/LivingWith.
evaluation plan (identifying environmental conditions	of invasive or exotic species) should have a completed site- necessary to re-establish native vegetation), a revegetation plan and long-term monitoring plan, including adaptive management on.
The Department requests further coordination to contact Project Evaluation Program directly at PE	provide project/species specific recommendations, please P@azgfd.gov.
been documented within the vicinity of your project ar Arizona Department of Agriculture 1688 W Adams St. Phoenix, AZ 85007 Phone: 602.542.4373	s listed on the Arizona Native Plant Law and Antiquities Act have

Exhibit II-G-1: AZGFD Report (cont'd)

		Review Date: 9/20/2021 10:20:15 PM
Proposed) have been documented	in the vicinity of your project. The Enda latory authority over all federally listed	e species or Critical Habitat (Designated or ingered Species Act (ESA) gives the US Fish species. Please contact USFWS Ecological
Phoenix Main Office	Tucson Sub-Office	Flagstaff Sub-Office
9828 North 31st Avenue #C3	201 N. Bonita Suite 141	SW Forest Science Complex
Phoenix, AZ 85051-2517	Tucson, AZ 85745	2500 S. Pine Knoll Dr.
Phone: 602-242-0210	Phone: 520-670-6144	Flagstaff, AZ 86001
Fax: 602-242-2513	Fax: 520-670-6155	Phone: 928-556-2157
		Fax: 928-556-2121
water through an area, thereby red and habitat for fish and wildlife. Rip Riparian areas also include those of rain events. All types of riparian are County Comprehensive Plan (i.e. p and Drainage Design Manual all ide minimize, or mitigate impacts to rip	ucing flood events. In addition, riparian parian areas are channels that contain v channels which are dry most of the year eas offer vital habitats, resources, and r policies 6.1.2.1 and 7.1.2.4), Open Space entify riparian area considerations, guid arian habitat can be found lanning/wildlifeguidelines/. Based on the	arily by acting as natural drainages that convey areas provide important movement corridors vater year-round or at least part of the year. ; but may contain or convey water following novement corridors for wildlife. The Pinal æ and Trails Master Plan, Drainage Ordinance ance, and policies. Guidelines to avoid, e project type entered, further consultation with
	an Desert Tortoise have been docume	ed. anted within the vicinity of your project area. id.com/wildlife/nongamemanagement/tortoise/

### H. VIEWSHEDS

The northern, western, and southern perimeter areas are the only locations of high visibility from adjacent roadways and properties. Primary views away from the site are mainly of the Catalina Mountains and Pusch Ridge to the east and southeast. See Exhibit II-H-1: Viewsheds and Exhibit II-F-2 Viewshed Photographs.

1. Viewshed Analysis

The subject property is within the Tangerine Road Corridor Overlay District but is exempt from some of the district's requirements because it is within the Rancho Vistoso PAD. No significant scenic views of the Tortolita, Santa Catalina, or other mountains exist from Tangerine Road.

2. View Preservation Plan (VPP)

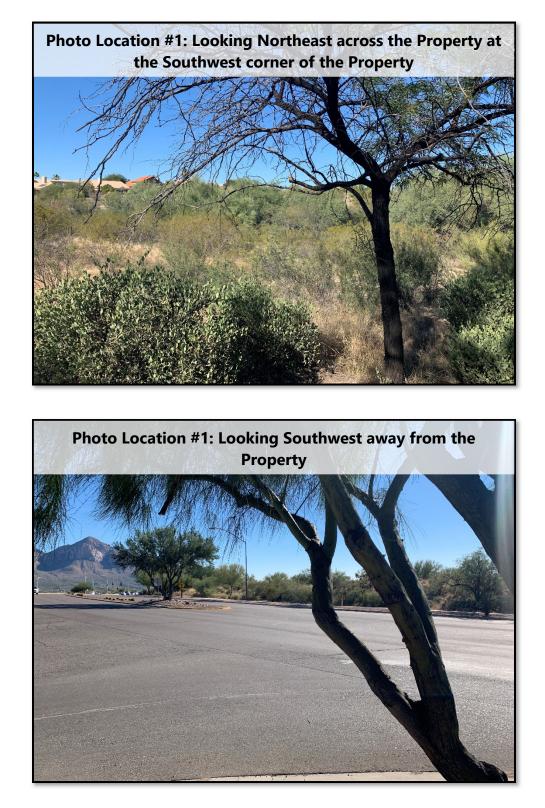
A View Preservation Plan is not required because the proposed buildings will not exceed 18' in height and the project is residential in nature.

3. Core Character Vegetation (CCV)

Not Applicable.



### Exhibit II-H-2: Viewshed Photographs











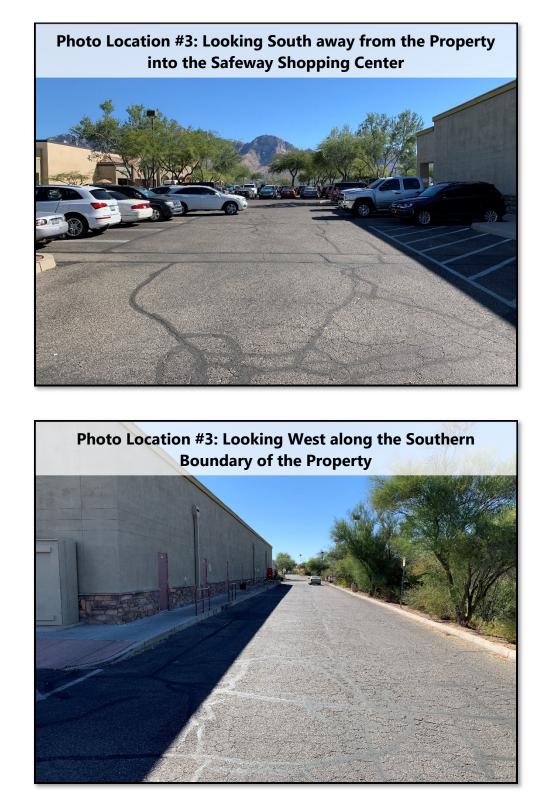
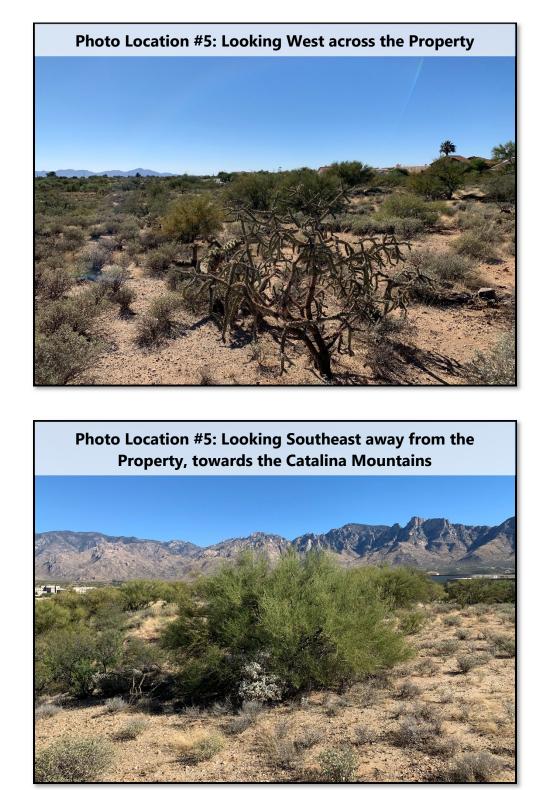




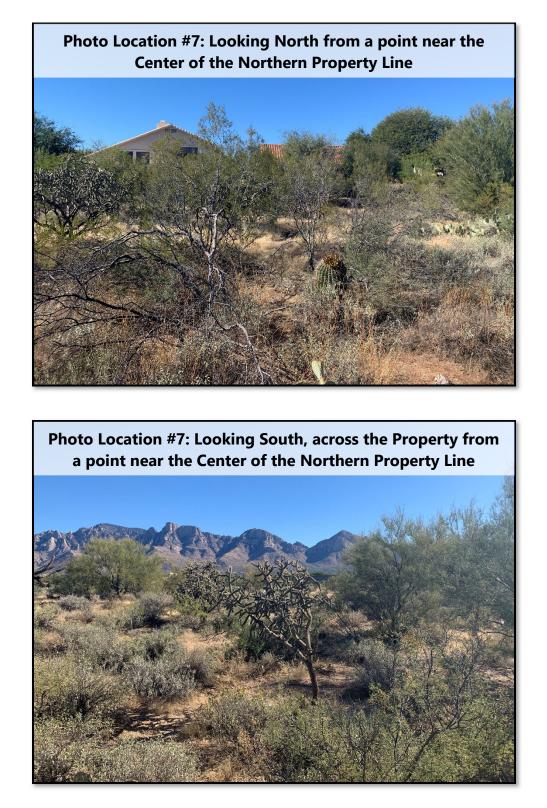
Photo Location #4: Looking South from the Southeast Corner of the Southern Portion of the Property, behind the Safeway Shopping Center.



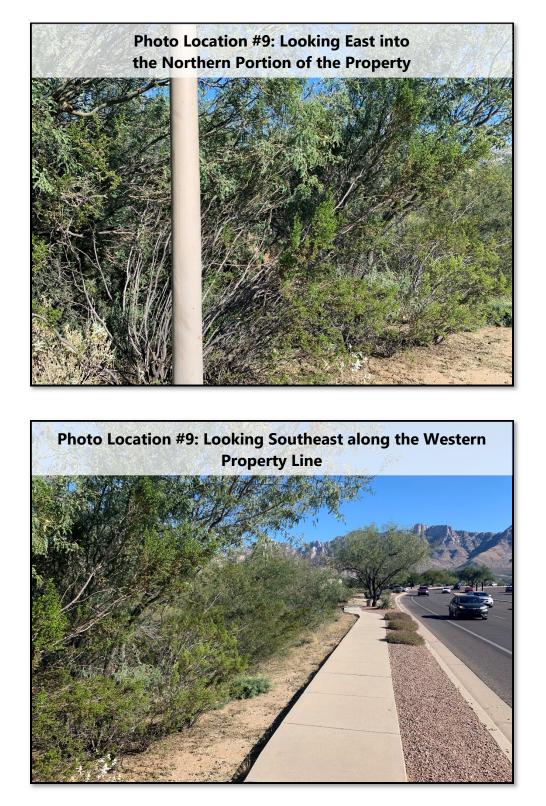


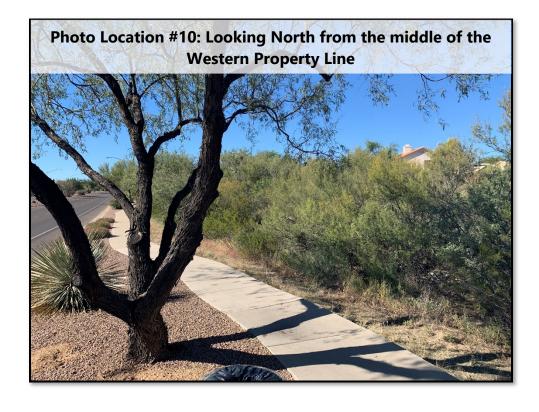


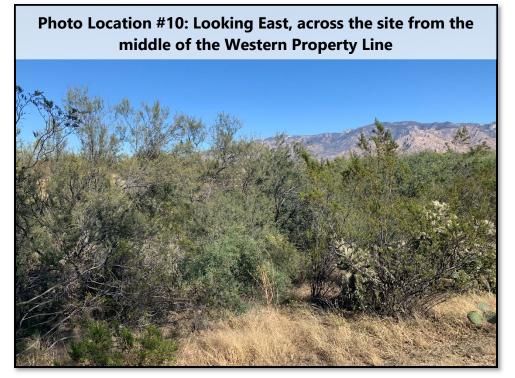


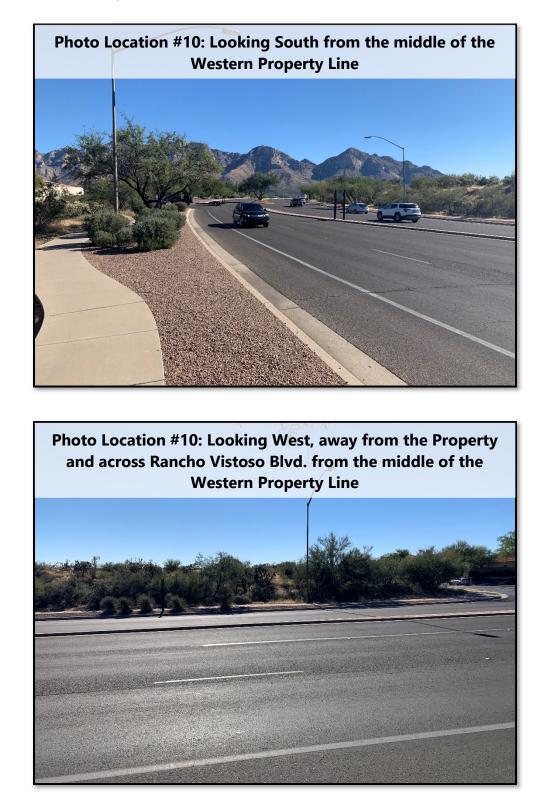












### I. TRAFFIC

1. Existing / Proposed Offsite Streets between the Development and Nearest Arterial Streets

None. The primary entry to the site will come from the existing access drive in the northwestern corner of the Safeway Shopping Center. Originally planned to serve both properties, this access drive will require slight modification to make it aesthetically appropriate for a residential use as well as the shopping center.

2. Arterial Streets within One Mile of the Site

All the traffic generated by this project will be accommodated by Rancho Vistoso Blvd, Tangerine Road, First Avenue, and Moore Road.



See Exhibit: II-G-1 Major Roads. An analysis of capacity (the "Avilla Rancho Vistoso East and West Traffic Impact Analysis") by CivTech, dated June 2022 has been submitted as a standalone report.

- *i. Existing and proposed right-of-way widths.* See table below.
- *ii.* Whether or not said widths conform to Oro Valley minimum requirements. See table below.
- *iii.* Ownership (public or private). See table below.
- *iv.* Whether or not rights-of-way jog or are continuous. See table below.
- v. Number of travel lanes, theoretical capacity and design speed for existing streets. See table below.
- vi. Present Average Daily Traffic (ADT) for existing streets. See table below.
- vii. Describe surface conditions on existing streets providing access to the site. See table below
- viii. Program for completion of roadway and intersection improvements. See table below.

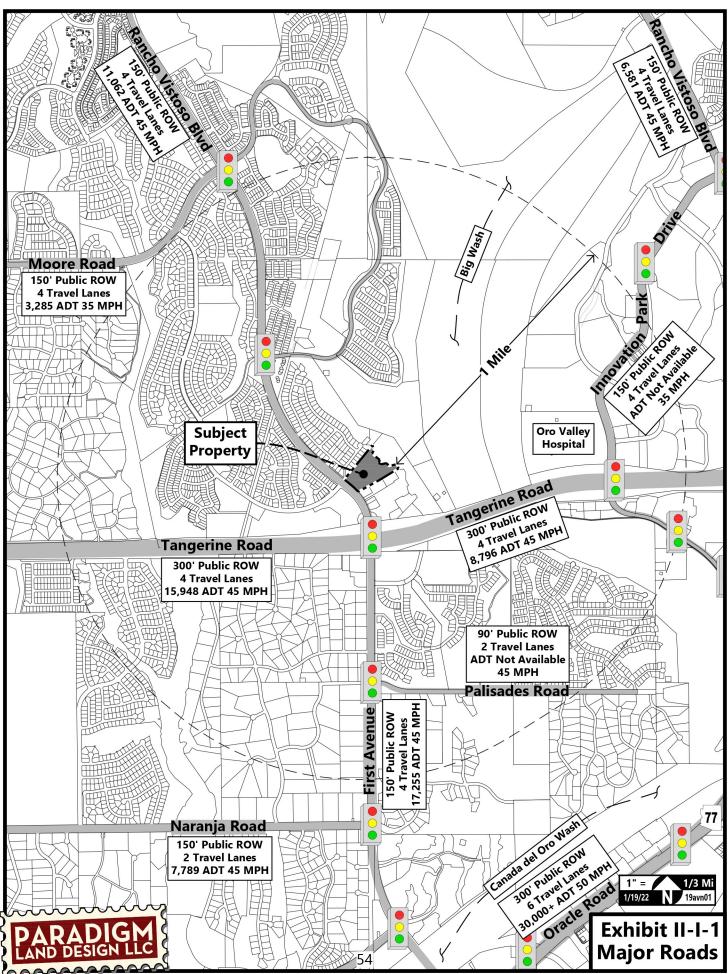
Roadway Name	Existing R.O.W.	Ultimate R.O.W.	Travel Lanes	Capacity	Theo. Design Speed	ADT (PAG)	Condition	Scheduled Improvements
Rancho Vistoso Blvd. (Public)	150′	150' Continuous	4	40,000	55	11,062	Paved	None Scheduled
Tangerine Road (Public)	300′	300' Continuous	4	40,000	55	15,948	Paved	None Scheduled
First Ave. (Public)	150′	150' Continuous	4	40,000	55	17,255	Paved	None Scheduled
Moore Road (Public)	150′	150' Jogged	4	25,000	45	3,285	Paved	None Scheduled

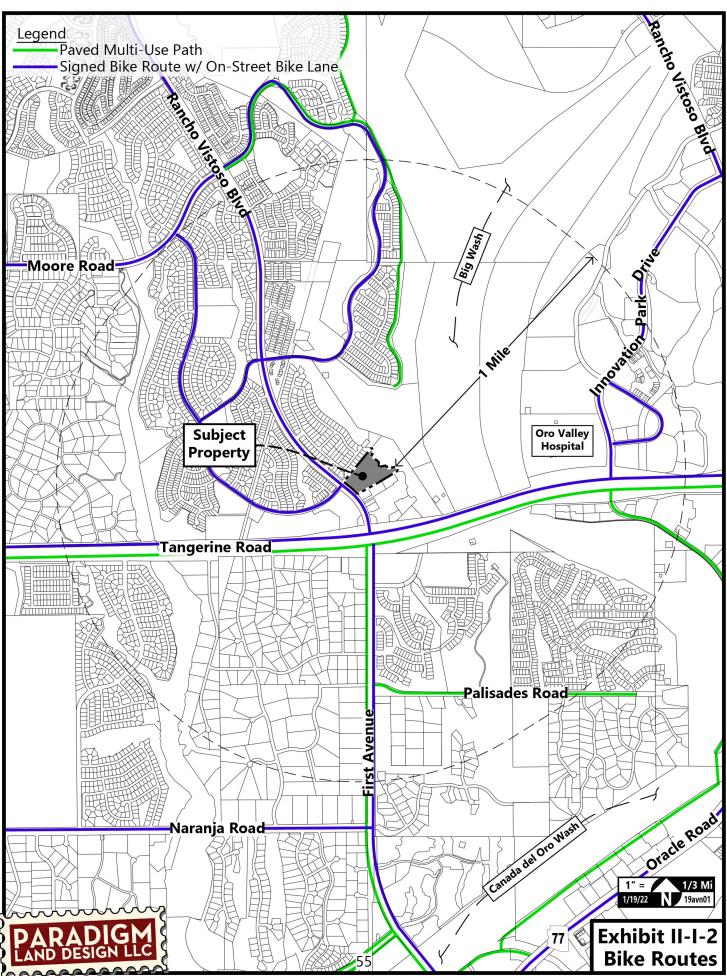
*ix.* Existing and proposed intersections on arterials within one mile of the site most likely to be used by traffic from the site.

Several arterial intersections that will carry traffic generated by this development exist within one mile of the Property. These include Rancho Vistoso Blvd. / First Avenue & Tangerine Road, Rancho Vistoso Blvd. & Moore Road, Tangerine Road & Innovation Park Drive, First Avenue & Palisades Road, and First Avenue & Naranja Road. The existing intersection of Rancho Vistoso Blvd. and the northern Safeway shopping center access drive will be signalized.

*x.* Existing bicycle and pedestrian ways adjacent to the site and their connections with arterial streets, parks, and schools.

There is a signed bike route with on street bike line that extends the entire length of Rancho Vistoso Boulevard from Tangerine Road to Oracle Road. On street bike lanes and paved multiuse paths also exist the entire length of Tangerine Road and First Avenue. These routes provide connectivity to Painted Sky Elementary School, Copper Creek Elementary School, Honey Bee Park, the Woodshade Linear Park, Sunset Park, Hohokam Park and the greater Oro Valley / Pima County bicycle-pedestrian path system. See Exhibit II-G-2: Bike Routes.

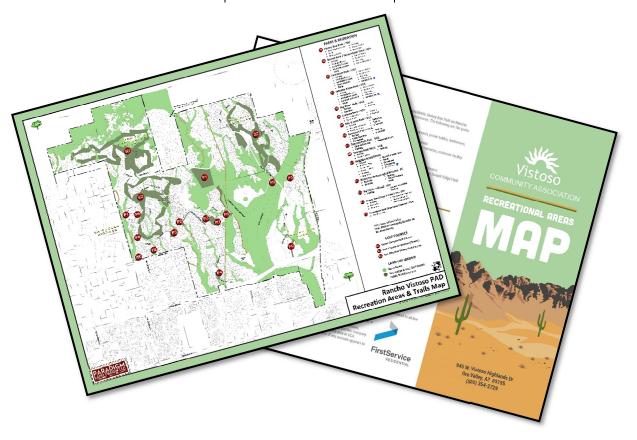


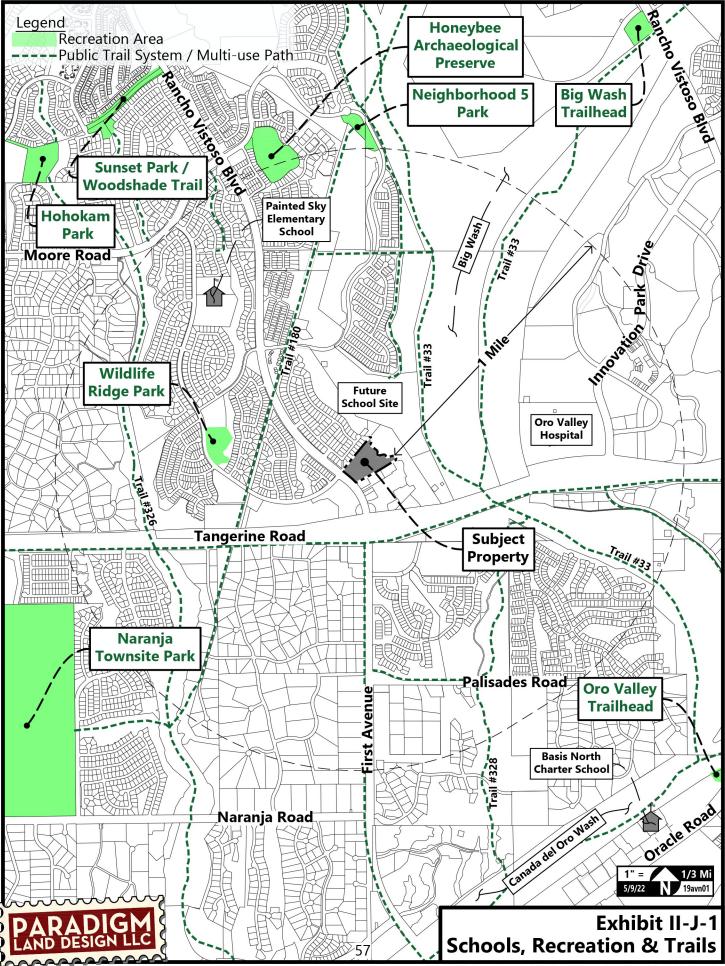


### J. PARKS, RECREATION AREAS, AND TRAILS

There are numerous trails and neighborhood parks within the Rancho Vistoso PAD, including some within one mile of the subject property. Wildlife Ridge Park is approximately one-half mile west of the subject property. The Honeybee Archaeological Preserve and the Neighborhood 5 Park are both one mile north of the property. The Sunset Park / Woodshade Trail and Hohokam Park are a mile and half northwest of the site, and the Naranja Townsite park is just over one mile to the southwest. There are a series of natural trails and multi-use paths that weave their way through and around the surrounding neighborhoods of Rancho Vistoso. These trails connect neighborhoods to one another, to the active recreation areas, and to the greater Oro Valley trails system. See Exhibit II-J-1: Schools, Recreation &Trails.

Si	urrounding Recreation	Areas
Park Name	Park Size (Acres)	Park Type (Active or Passive)
Wildlife Ridge Park	5.5±	Passive
Honeybee Archaeological Preserve	13.0±	Passive
Neighborhood 5 Park	3.9±	Active & Passive
Naranja Townsite Park	172.6±	Active & Passive
Hohokam Park	8.8±	Active & Passive
Sunset Park / Woodshade Trail	3.1±	Active & Passive
Big Wash Open Space	> 500	Passive





## K. Schools

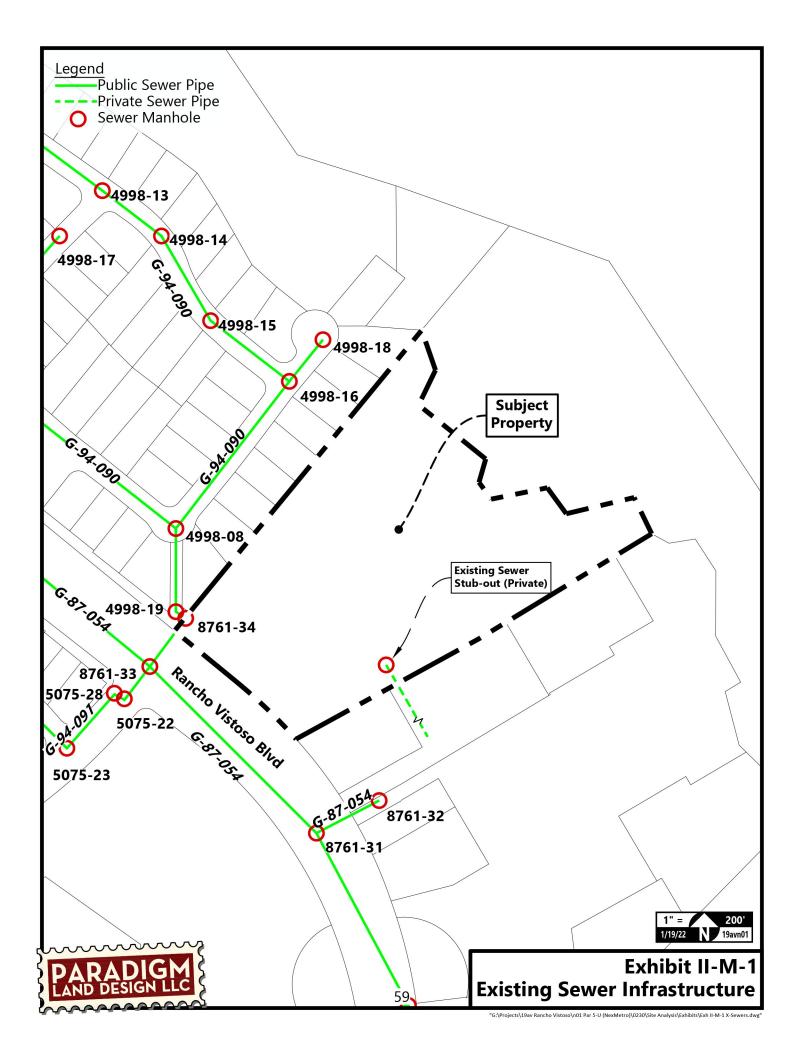
Students within this development will attend the schools in the Amphitheater Unified School District. The only school within one mile of the site is the Painted Sky Elementary School. It is approximately three-quarter of a mile to the northwest and has capacity for this development. Future students may also attend Coronado K-8 and Ironwood Ridge High School, which also have capacity for this development. The charter school Basis North is approximately a mile and half to the southeast but is not part of the Amphitheater Unified School District. See Exhibit: II-H-1: Schools, Recreation & Trails.

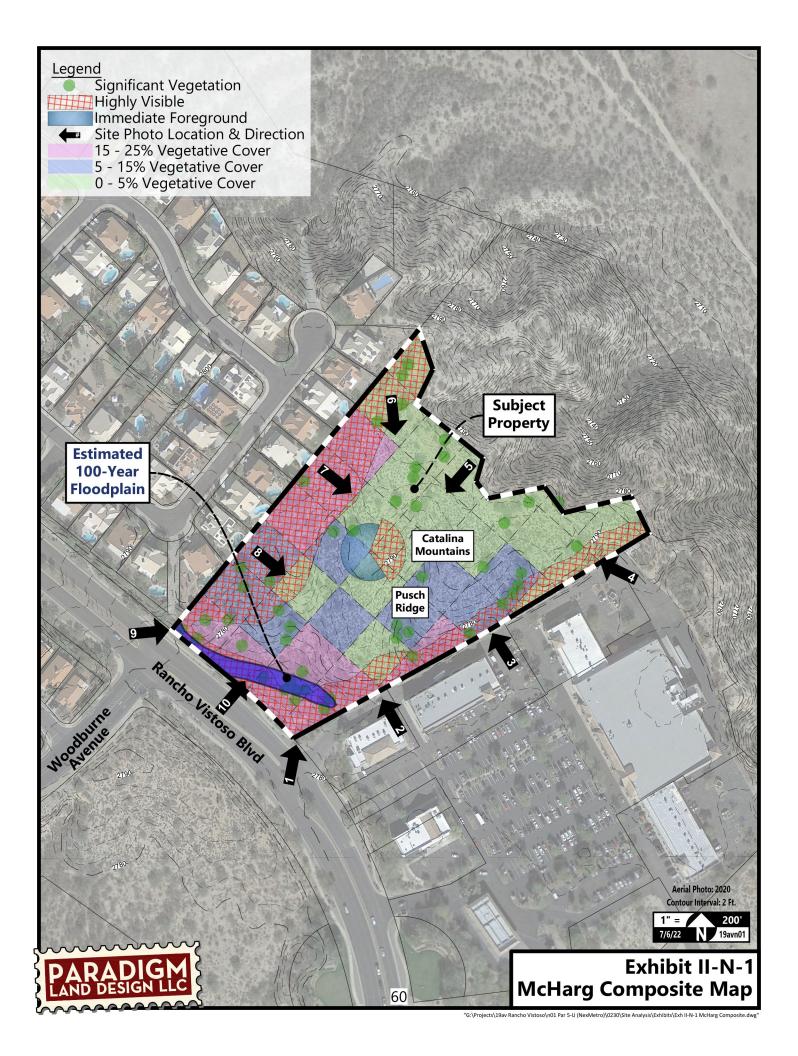
### L. WATER SERVICE

The Property will be served by the Oro Valley Water Utility. Contact information: (520) 229-5000 / 11000 N. La Canada Dr. The exact nature of offsite improvements will be determined during the platting process, although none are anticipated. An 8" water line exists within the Rancho Vistoso Blvd. right-of-way and an 8" water line also stubs-out into the site from the Safeway shopping center. See Exhibit II-M-1: Existing .

### M. SEWER SERVICE

A 12" sewer line exists within the Rancho Vistoso Blvd. right-of-way. Additionally, an 8" sewer line stubs-out into the site from the Safeway shopping center to the south. Capacity is currently available for this project in the public sewer G-87-054, downstream from manhole 8761-33. See Exhibit II-M-1: Existing Infrastructure.





# III. LAND USE PROPOSAL

This section describes how the development responds to the opportunities and constraints described in the Inventory & Analysis section of this document, along with the Town of Oro Valley Zoning Code. As evidenced by the site plan, this proposed rezoning has been crafted after careful and responsive consideration of the Property's context.

## A. **PROJECT OVERVIEW**

1. Project Description

NexMetro proposes to rezone the subject property ( $8.0 \pm ac.$ ) from C-1 Commercial in the Rancho Vistoso PAD to High-Density Residential (HDR) in the PAD. Two small slivers of PAD Open Space along the eastern property boundary are planned to be retained as open space. This will allow for the development of the eastern portion of Avilla Rancho Vistoso, a neighborhood of single-family rental casitas just north and east of the Safeway shopping center. The eastern portion of Avilla Rancho Vistoso will contain approximately 87, 1-story, predominately detached residences



that will provide an appropriate transition between the existing commercial center to the south and the existing residential development to the north. The proposed residences within the project will be a mix of one, two, and three bedrooms. The residences will have a maximum height of 18' and will range in square footage between approximately 690 sq.ft. to 1,265 sq.ft. They will be grouped around landscaped pedestrian corridors and a community recreation area will include a pool, outdoor kitchen, green space, shaded seating areas, and

a small dog park. See Exhibit III-A-1: Tentative Development Plan.

2. General Plan Conformance

Avilla Rancho Vistoso has a current land use designation of Neighborhood Commercial / Office and is within a Tier 2 growth area. The Oro Valley General Plan 'Your Voice, Our Future' allows HDR as a comparable zone to R-6 in the Neighborhood Commercial / Office land use designation. See Exhibit III-A-2: Existing General Plan

3. Flexible Design Options / Conservation Subdivision Design

This development will not rely on Flexible Development Provisions or Conservation Subdivision Design. The Rancho Vistoso PAD is a giant clustered Master Plan, having preserved roughly half of its several thousand acres as open space in perpetuity.



Existing Zoning: Existing General Plan: Proposed Zoning: Proposed Units: Proposed Bldg. Height: 18' Single-Story Proposed Open Space: 30% per Rancho Vistoso PAD Recreation Area: Per OVZCR Requirements 8. Recreation Area:

### 8.0± Ac.

PAD C-1 (Community Commercial) Neighborhood Commercial / Office PAD HDR (High Density Residential) 87 (A mix of 1-, 2-, and 3-Bedrooms)

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0910	2 BEDROOM	36	41%	1.75	63
	3 BEDROOM	15	17%	2.0	30
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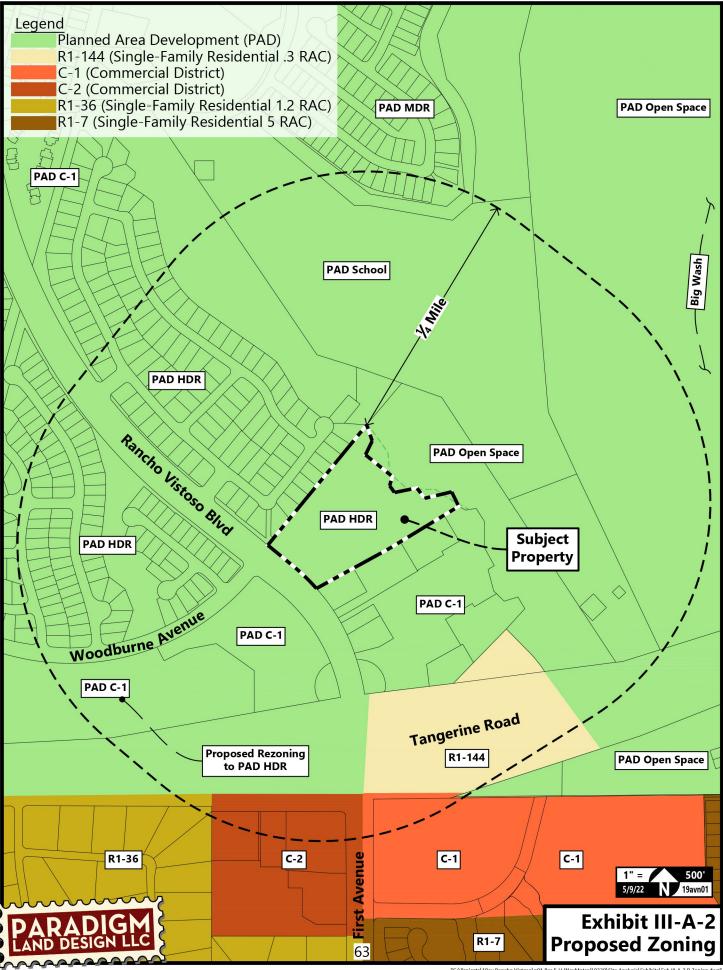


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POPEN SPACE ANALYSIS     Bowman Consulting Group LId       Powman Consulting Group LId     Bowman Consulting Group LId       Powman Consulting Group LId     6751 North Sunset BNd       Bowman Consulting Group LId     6751 North Sunset BNd       Bowman Consulting Group LId     8751 North Sunset BNd       Bowman Consulting Group LId     800 North Sunset BNd
OPEN SPACE ANALYSIS AVILLA RANCHO VISTOS EASTERN PORTION ORO VALLEY, AZ
1 321-203

### **B. EFFECT ON EXISTING LAND USES**

Since the subject property is currently vacant, there will be no negative impact to existing land uses. Developing this property as single-family rental homes will provide an appropriate density transition between the existing commercial center to the south and the existing homes to the north. Avilla Rancho Vistoso will be much more compatible with the existing homes to the north than would a commercial development. The transitional density of this project will help support the many commercial businesses not only located immediately south of the property but also with greater Oro Valley.

### C. ENVIRONMENTALLY SENSITIVE LANDS

ESL and ESOS do not apply to this site because it is in Rancho Vistoso. Any vegetation that is disturbed will meet mitigation requirements as set forth in the Town of Oro Valley Zoning Code.

### D. TOPOGRAPHY

1. Design Responses to Site Topography

Due to the lack of regulated slopes and other challenging topographic constraints, the development of this property can proceed without special grading considerations. The site will be mass graded so improvements within this project can be located at or near existing grade, subject to drainage requirements. As vehicular access is to be gained from the south, the elevation of the site will generally need to be lowered to keep the entry drives from being very steep. Along the Horizons subdivision to the north a sloped and/or terraced landscape bufferyard will be employed to make up the elevation differences.

2. Slope Encroachment

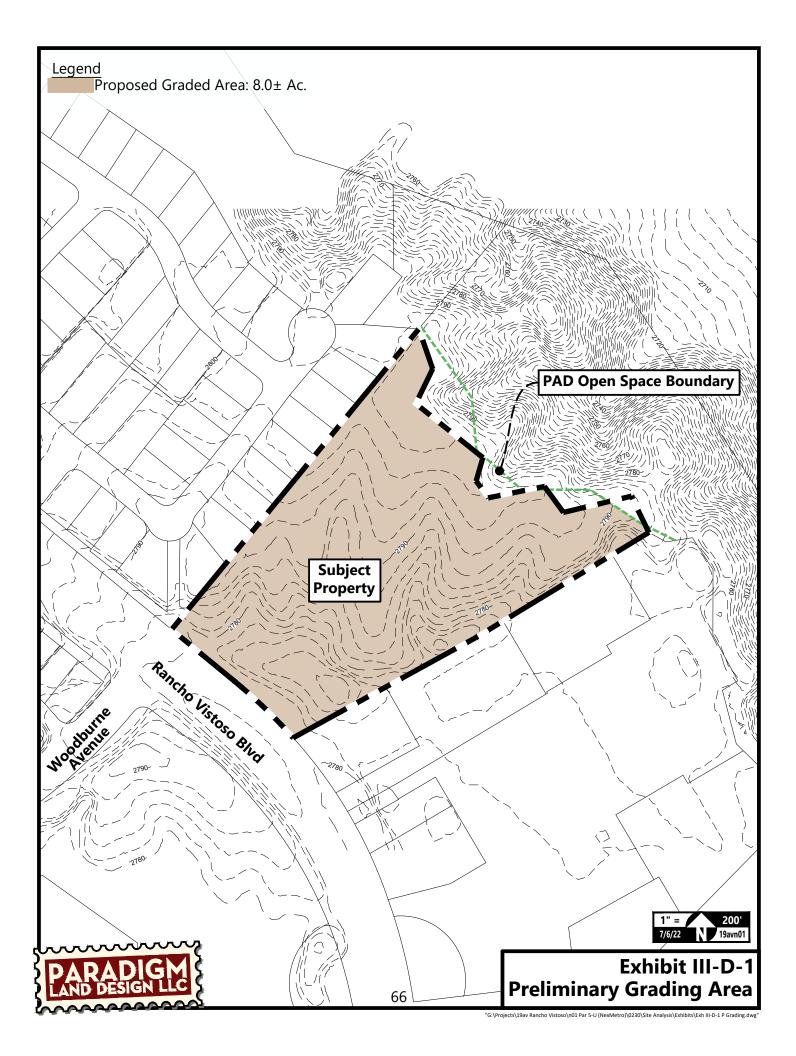
The subject property does not contain any regulated 15% or greater slopes, and as such there are no areas of encroachment.

3. Hillside Conservation Areas

There are no Hillside Conservation Areas on the subject property. The steep slopes just to the northeast of the property will be left in their natural condition and will not be disturbed.

4. Quantified Site Disturbance

Because of the nature of this project, all areas located outside of the designated Open Space will be graded to allow for the construction of this development.



### E. CULTURAL / ARCHAEOLOGICAL / HISTORIC RESOURCES

1. Resource Protection

If any cultural resources are discovered during construction, State and local rules will be followed regarding the handling and treatment of such cultural resources.

2. Treatment Plan

The subject property was intensively surveyed in 1986 by the Institute for American Research (IAR), as part of the "Rancho Vistoso Survey". Within the subject property, IAR archaeologists did not identify any archaeological sites. A recent site survey conducted in October 2021 found that there were no archaeological resources on the property. No further archaeological study of the project area is recommended. In the unlikely event that buried archaeological features or human remains are unearthed during construction, all work should stop in the immediate vicinity of the discovery and an archaeologist should be contacted to verify the discovery and assess its significance.

### F. POST-DEVELOPMENT HYDROLOGY

1. Design response to Site Hydrology

This project will incorporate appropriate mitigation measures in accordance with the Town of Oro Valley Floodplain Management Code and the Drainage Criteria Manual. See Exhibit III-F-1: Post-Development Hydrology.

2. Modification of Drainage Patterns

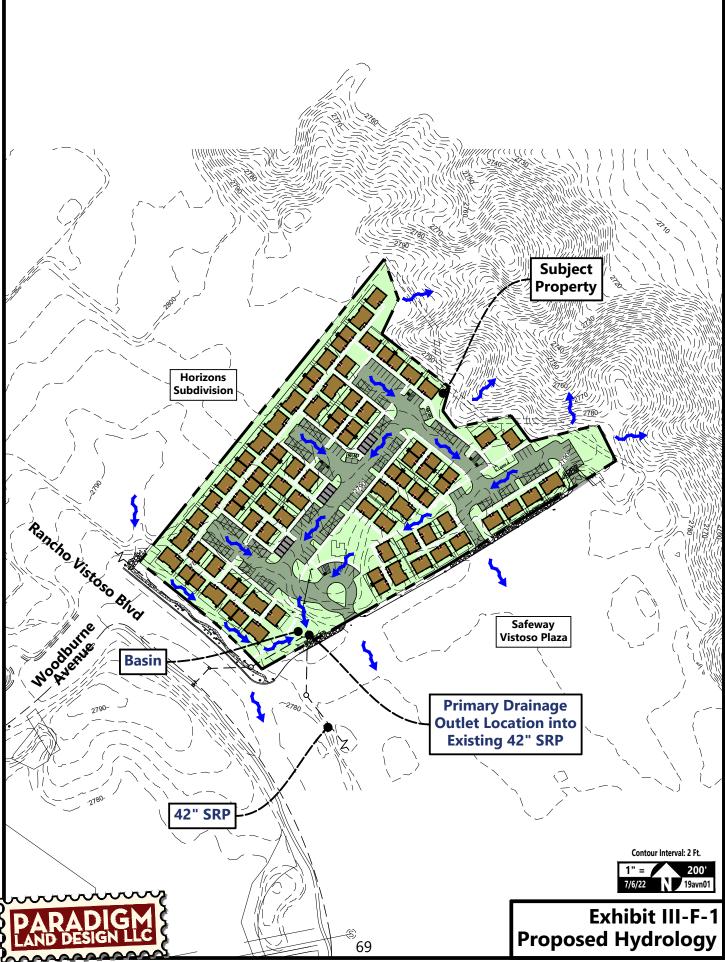
The site has no sub-basins with discharges greater than 50 cfs and is free of any federally mapped floodplains. Offsite flows from upstream watersheds will be collected in detention basins, channels and/or culverts directing the runoff through the project site.

3. Mitigation

Drainage design within the proposed development will convey offsite and onsite flows using constructed channels, storm drainpipes, onsite detention basins in accordance with the Town of Oro Valley Floodplain Management Code and the Drainage Criteria Manual. Channel and basin geometry and construction will follow accepted standards regarding erosion and flow velocity control. Horizontal elements constructed within the project will be set at or near existing grade to minimize impacts to existing drainage patterns. All building pads will be designed to be a minimum of 1 foot above the established 100-year flood elevations. The site will be graded according to Town standards, which will provide adequate room and grades to handle stormwater runoff.

4. Town Policy

The post-developed 100-year discharges exiting the site will be maintained in their current condition or reduced by a maximum of 10% in accordance with Town policy. Which requires all development to conform to "critical basin" requirements and not result in any adverse impacts for adjacent or downstream property owners.



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### G. VEGETATION

There are several trees onsite that meet the Town's definition of significant vegetation. Existing native vegetation has been inventoried, and viable specimens will be transplanted per the Town's native plant preservation ordinance to various areas onsite. Vegetation that meets transplant requirements have been shown on the Site Resource Inventory. See Appendix A; Site Resource Inventory. Native plants will be reintroduced throughout the development and open space areas in accordance with the Town's landscape design guidelines. Open space is primarily located in the recreation area and in the drainage-related open spaces throughout the development. Landscaping will be installed throughout the open spaces and around the perimeter of the property to meet Oro Valley's perimeter landscape bufferyard standards. All installed landscaping will be drought tolerant per Oro Valley's guidelines. Native plants are drought tolerant and uniquely suited for the local climate, and further meet the primary objective of development a sustainable and environmentally sensitive residential community.

### H. WILDLIFE

Being sandwiched between existing developments, this property does not have any wildlife corridors that traverse the site. Major wildlife corridors exist within the Big Wash which is just east of the subject property. These corridors allow for uninterrupted wildlife movement throughout the greater Oro Valley area.

### I. VIEWSHEDS

### 1. Design Response to Site Viewsheds

This proposed residential development will consist of all one-story homes and will restrict building heights to a maximum of 18 feet. Impacts to viewsheds of neighboring developments will be minimal, and certainly less than the potential impacts of 3-story, 34-foot commercial buildings as permitted by the property's existing zoning. Bufferyards will be provided around the perimeter of the property to help mitigate views into the site. Necessary roadway construction will generally follow the natural terrain to minimize the resulting grading limits. All disturbed areas not receiving built improvements will be landscaped.

### 2. ORSCOD / TRCOD Conformance

The subject property does not fall within the Oracle Road Scenic Corridor Overlay District. It is within the Tangerine Road Corridor Overlay District but because the property does not front on Tangerine Road and is set back a significant distance, a viewshed analysis is not required.



The architectural design of these rental homes

will be consistent with surrounding residential developments and will adhere to the Rancho Vistoso PAD's design guidelines. They will be constructed out of materials such as stucco, adobe, and wood frame, and will have either a gabled, tiled or flat roof. All structures will be painted in desert neutral colors to help blend this development into the desert environment.

### J. TRAFFIC

1. Traffic Impact Analysis

### *i.* Proposed Internal Circulation and Access to/from Arterial Streets

The primary entry to the community will be via the existing access drive in the northwestern corner of the Safeway shopping center. Originally planned to serve both properties, this access drive will require slight modification to make it aesthetically appropriate for a residential use as well as the shopping center. A secondary access point is proposed along the southern property line, connecting to an existing parking access lane within the Safeway shopping center. Finally, an emergency access gate will be located near the southeast corner of the property, tying into the existing roadway stub-out leading north from the shopping center.

### *ii.* Offsite Road Improvements

The roadways adjacent to and within a one-mile distance from the subject property are in good condition. A proposed loop road will connect Tangerine Road to Rancho Vistoso Blvd. through the western portion of the Avilla project and will align with existing median breaks in both roadways. A new traffic signal will be installed at the loop road's intersection with Rancho Vistoso Boulevard, which is at the northern Safeway access drive. The existing access drive in the northwestern corner of the Safeway shopping center will require slight modification to accommodate this proposed development. Coordination for these necessary improvements will take place with the adjacent property owner. Installation of a northbound right-turn lane at that same intersection is technically warranted, but would be out of character for the area as no other right-turn lanes exist along Rancho Vistoso Blvd. Woodburne Avenue will be realigned to intersect with the proposed loop road, which will provide existing and future residents with safer and more convenient access to Rancho Vistoso Blvd. and Tangerine Road. Required offsite improvements will be completed concurrently with the development of the project.

### iii. Projected ADT for Internal Circulation System at Build Out & Level of Service to all Streets

With an average daily trip (ADT) of approximately 7 trips per rental, the 87 rental homes proposed will generate approximately 632 ADT. The private access lanes inside this development and the abutting arterial roadways, which are operating below capacity, will be able to accommodate traffic generated from this project. Once the traffic signal is installed at the northern Safeway entrance's intersection with Rancho Vistoso Boulevard that intersection is modelled to function at a high level of service.

### *iv.* Impact to Existing Development Abutting Offsite Streets

Rezoning the subject property from Community Commercial (C-1) to High Density Residential (HDR) will reduce the traffic impact to surrounding developments and off-site streets, compared to a scenario in which the site was to be developed according to its existing commercial entitlements.

v. Capacity Analyses for Proposed Internal & Offsite Streets.

All three roadways discussed below are public, 4-lane divided boulevards with capacities of approximately35,000 – 40,000 ADT.

### Rancho Vistoso Boulevard

Rancho Vistoso Boulevard is a four-lane (two in each direction) paved arterial road with a divided landscaped median and left turn lanes, with a posted speed limit of 45 mph. The existing and ultimate right-of-way is 150 feet, which is continuous. According to the Pima Association of Governments (PAG) 2020 Traffic Volumes, the average daily trip volume (ADT) for this arterial roadway is 11,062 ADT.

### Tangerine Road

Tangerine Road is a four-lane (two in each direction) paved arterial road with a divided landscaped median and left turn lanes, with a posted speed limit of 45 mph. The existing and ultimate right-of-way is 300 feet, which jogs. According to the Pima Association of Governments (PAG) 2020 Traffic Volumes, the average daily trip volume (ADT) for this arterial roadway ranges from 8,796 to 15,948 ADT.

### <u>First Avenue</u>

First Avenue is a four-lane (two in each direction) paved arterial road with a divided landscaped median and left turn lanes, with a posted speed limit of 45 mph. The existing and ultimate right-of-way is 150 feet, which is continuous. According to the Pima Association of Governments (PAG) 2020 Traffic Volumes, the average daily trip volume (ADT) for this arterial roadway is 17,255 ADT.

### <u>Woodburne Avenue</u>

Woodburne Avenue is a two-lane (one in each direction) paved collector road with a posted speed limit of 35 mph. The existing and ultimate right-of-way is 80 feet, which is continuous. The Pima Association of Governments (PAG) does not provide traffic volumes for this roadway.

vi. Improvements Required for Those Streets Described in Sub-paragraph v. Above

Rancho Vistoso Blvd, Tangerine Road, and First Avenue are all in good condition and will not require any improvements to accommodate this development. A signal will be installed at the intersection of Rancho Vistoso Blvd. and the northern Safeway entrance.

vii. Party / Agency to be Responsible for Making Necessary Improvements

The developer will construct the required offsite improvements.

viii. Evidence that Proposed Turning Movements Will Meet Safety Standards in Relationship to Traffic Volumes

The proposed ingress/egress point into this project will come from the existing access lane in the northwest corner of the Safeway shopping center. No additional access points are being proposed onto Rancho Vistoso Blvd. Vegetation adjacent to the projects main ingress/egress point will be maintained to provide safe site visibility for vehicles exiting the site and will allow safe turning movements to and from the site. The proposed internal access drives will meet the Town of Oro Valley Minimum Design Standards.

2. Proposed Rights-of-Way

There are no streets being proposed within this development. Only private access lanes and parking area access lanes are being proposed as part of this development. Access lanes and parking areas will be constructed to Oro Valley's standards.

3. Proposed Pedestrian / Bicycle Circulation

This development will make pedestrian and bicycle connections to Rancho Vistoso Blvd, which has existing sidewalks and striped bicycle lanes that run for its entirety. Sidewalks will be installed to all proposed residences from the parking areas. Pavement striping will be provided in the parking areas to clearly delineate pedestrian access ways.

### K. RECREATION & TRAILS

1. Off-site Trail Access

There are no existing trails within the direct proximity of the project site. However, this project will provide pedestrian access to the sidewalk along Rancho Vistoso Blvd, which leads to public trail access points further north along Big Wash.

2. Open Space Ownership

The proposed recreation areas and other open spaces of the Avilla Rancho Vistoso will be owned and maintained by the property owner. The main recreation area for this site will be located near the leasing office and will include a variety of amenities, including a pool, outdoor kitchen, green space, shaded seating Pareas, and a small dog park. OVZCR permits enhanced amenities such as those listed above to offset part of the required open space acreage. This project proposes such a credit according to the following calculations:

Units:	87
Land Price per Sq. Ft:	\$6.35
Standard Req'd. Rec. Area (1 Ac. / 85 Units):	44,585 Sq. Ft.
Value of Standard Rec. Area Land:	\$283,024
Typical Cost of Standard Rec. Area of Req'd. Size:	\$309,175
Total Cost to Meet Standard Rec. Area Requirements:	\$592,199
Proposed Rec. Area Size:	36,136 Sq. Ft.
Value of Proposed Rec. Area Land:	\$229,390
Expected Cost of Enhanced Rec. Area:	\$619,399
Total Cost to Provide Enhanced Rec. Area:	\$848,789



### L. SCHOOLS

### 1. Student Generation

This proposed development is expected by Amphitheater School District to generate approximately ten elementary students, six middle school students, and four high school students (using the accepted standard student multiplier of 0.1082 multifamily elementary students per household, 0.0694 multifamily middle school students per household, and 0.0406 multifamily high school students per household). The typical demographics of Avilla neighborhoods includes above-average percentages of single people and empty nesters, so the expected student generation is actually less than the Amphitheater School Districts standard calculated estimate.

2. School Capacity

According to the letter supplied by the Amphitheater School District, there is available capacity for this proposed development. See Exhibit III-L-1: School District Letter.

### Exhibit III-L-1: School District Letter

AMPHITHEATER Public Schools	LEGAL DEPARTMENT Michelle H. Tong, J.D. Associate to the Superintendent General Counsel (520) 696-5156 • FAX (520) 696-5074 701 W. Wetmore Road • Tucson, AZ 85705 • (520) 696-5000 • www.amphi.com
GOVERNING BOARD MEMBERS SUPERINTENDENT Todd A. Jacger, J.D.	Susan Zibrat Deanna M. Day, M.Ed. Scott K. Baker, Ph.D. Vicki Cox Golder Matthew A. Kopec President Vice President
DELIVERED VIA ELECTRO	IIC MAIL
August 24, 2021	
Clay Goodwin Paradigm Land Design, LLC Avilla Rancho Vistoso Project claygoo@gmail.com	
RE: Tange	rine Road/Rancho Vistoso Blvd. Planned Area Development
Dear Mr. Goodwin:	
I am responding to your reque your proposed development.	st for information regarding the capacity of Amphitheater schools impacted by
Using 2000 demographic mult adjusted for Amphitheater Dis populations to result from this	ipliers developed by the U.S. Department of Census, Bureau of Census, and trict's school organizational patterns, we project the following student project when built:
<u>Academic Lev</u> Elementary Middle High School	el 89 Multifamily Units 10 6 4
	to obtain these projections are 0.1082 multifamily elementary students per middle school students per household, and 0.0406 multifamily high school
Amphitheater Middle	intheater High School • Canyon del Oro High School • Ironwood Ridge High School School • Coronado K-8 School • Cross Middle School • La Cima Middle School • Wilson K-8 School aldson Elementary • Harclson Elementary • Holaway Elementary • Innovation Academy • Keeling Elementary ted Sky Elementary • Prince Elementary • Rio Vista Elementary • Walker Elementary • Rillito Center • Amphi Academy Online
status, political beliefs/affiliation, disability, home lan groups. Inquiries regarding the District's non-dis	minate on the hasis of race, color, religion/religious beliefs, gender, sex, age, national origin, sexual orientation, creed, citizenship status, marital guage, family, social or cultural hackground in its programs or activities and provides equal access to the Boy Scouts and other designated youth crimination policies are handled at 701 W. Wetmore Road, Tueson, Arizona 85705 by David Rucker, Equity & Safety Compliance Ollicer 164, <u>drucker@amphi.com</u> , or Kristin McGraw, Executive Director of Student Services, (520) 696-5230, <u>kmegraw@amphi.com</u> .

Exhibit III-L-1: School District Letter (cont'd.)

		Page 2	
available at e	which would be impacted by the each school <i>presently</i> . Please no which may have already been approach been approa	ote that these schools w	below, along with the physical capacity ill also be impacted by other developments but which are not yet built.
	<u>School Name</u> Painted Sky Elementary Coronado K-8 Ironwood Ridge High	<u>School Capacity</u> 645 1213 2541	Spaces Currently Available 290 535 882
If I can provi	ide any additional information,	please feel free to conta	ct me.
Kristin Mage	Magaziasz dziasz ve Assistant to the Legal Depa	rtment	

### M. WATER

1. Water Demand

A good estimate for domestic water usage is 230 gallons per day per residence dry weather flow. With 87 residences being proposed in this development, the total domestic water use is projected at 20,010 gallons per day. In contrast, under the Property's existing commercial zoning a shopping center developed at a floor area ratio of 0.3 would typically use roughly 15,780 gallons per day.

2. Water Service Provider & Capacity

Oro Valley water has the capacity and infrastructure available to serve this project. This project will connect to the existing water main line within the Rancho Vistoso Blvd. right-of-way.

### N. SEWER

1. Sewer Service Method

Pima County Regional Wastewater Reclamation Department will provide sewer service to this development. Capacity is currently available for this project in the public sewer G-87-054, downstream from manhole 8761-34. This project will connect to an existing private sewer manhole within its southern boundary, which was constructed by the developers of the Safeway shopping center to provide sewer service for this Property. See Exhibit III-N-1: Sewer Capacity Letter.

### Exhibit III-N-1: Sewer Capacity Letter

	<u>~</u>	
JACKSON JENKINS	PIMA COUNTY WASTEWATER RECLAMATION 201 NORTH STONE AVENUE	PH: (520) 724-6500
DIRECTOR	TUCSON, ARIZONA 85701-1207	FAX: (520) 724-9635
	August 16, 2021	
Paul Oland Paradigm Land Desigr 7090 N Oracle Rd Tucson, AZ 85704	n LLC	
Sewe	erage Capacity Investigation No. P21WC002	50 Туре I
	/istoso, Parcel 21954003B 19,224 gpd (ADWF)	
Greetings:		
The above referenced Canada del Oro Interc	I project is tributary to the Tres Rios Water R eptor.	Reclamation Facility via the
Capacity is currently a from manhole 8761-33	vailable for a project this size in the public sev 3.	wer G-87-054, downstream
It is not an approval of	rvation or commitment of treatment or conveyar f point and method of connection. It is an analy acity is made by the Type III Capacity Respons	sis of the system as of this
If further information is	needed, please feel free to contact us at (520)	) 724-6488.
Reviewed by: Mirela H	Iromatka, Planner Sr.	
	80	

### **O. BUFFERYARDS**

1. Mitigation

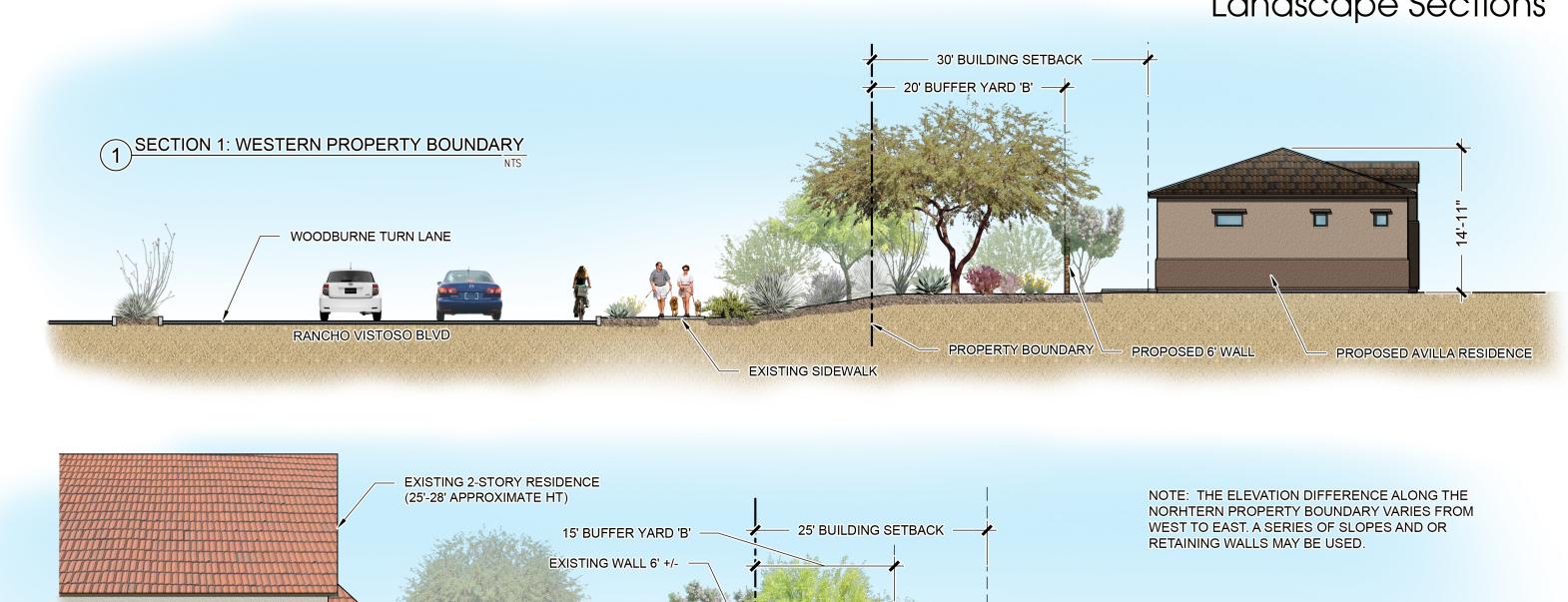
A landscape bufferyard will be provided around the portions of the project perimeter as required by the Oro Valley Zoning Code to help soften any visual impacts to surrounding landowners. The bufferyards will be composed from a variety of native vegetation and will help blend this residential neighborhood with the surrounding developments.

The project's only residential neighbors are located to the north and will be significantly higher in elevation than the proposed homes. That elevation difference will also serve to reduce the visual impacts of this development.

Even so, it is also important to remember that this Property is currently zoned for commercial development, which would undoubtedly have a significant impact on nearby neighbors.

Adjacent Use	Bufferyard Type & Width	
North – Horizons Subdivision	$T_{\rm MDO}$ (A) / 10 East	
(High Density Zoning)	Type 'A' / 10 Feet	
East – Open Space	Type 'A' / 10 Feet	
South – Safeway Shopping	Not Dequired	
Center (Commercial Zoning)	Not Required	
West – Rancho Vistoso Blvd.	Type 'B' / 25 Feet	

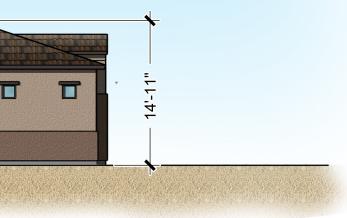
See Exhibit III-O-1: Bufferyard Cross-Sections and Exhibit III-A-1: Tentative Development Plan.



4'-1 R 2 SECTION 1: NORTHERN PROPERTY BOUNDARY PROPOSED AVILLA RESIDENCE PROPERTY BOUNDARY

# Avilla Rancho Vistoso

# Landscape Sections





### **APPENDIX A – SITE RESOURCE INVENTORY**

### **PROJECT OVERVIEW**

- A multi-family development is proposed for the site.
- 2. Existing Site Conditions and Vegetative Community: The 2020 aerial imagery accurately reflects the current site conditions. Prevalent tree species are foothill palo verde (Parkinsonia microphylla), velvet mesquite (Prosopis velutina), catclaw acacia (Senegalia greggii), whitethorn acacia (Vachellia constricta) and blue palo verde (Parkinsonia florida). Shrubs include creosote (Larrea tridentata), desert hackberry (Celtis pallida), graythorn (Ziziphus obtusifolia) and wolfberry (Lycium sp.). Sub-shrubs and forbs include bursage (Ambrosia deltoidea), brittlebush (Encelia farinosa), Wright's desertpeony (Acourtia wrightii), odora (Porophyllum gracile), burroweed (Isocoma tenuisecta), desert zinnia (Zinnia acerosa), and fairy duster (Calliandra eriophylla). Cholla species (versicolor and fulgida) and prickly pear species are the most common cacti on site. Additional cacti / succulents include barrel (Ferocactus wislizeni), hedgehog (Echinocereus sp.), and pincushion (Mammillaria sp.). Saguaro (Carnegiea gigantea) cacti are rare. Grasses were prominent on the site and included mucronate sprangletop (Dinebra panicea), six-weeks gramma (Bouteloua barbata), Mexican panicgrass (Panicum hirticaule), Rothrock's grama (Bouteloua rothrockii), six-weeks needle grama (Bouteloua aristidoides), purple three-awn (Aristida purpurea) and bush muhly (Muhlenbergia porteri).

## SITE RESOURCE INVENTORY NOTES & MITIGATION OF SIGNIFICANT VEGETATION

- 1. The Site Resource Inventory (SRI) was conducted in compliance with Town of Oro Valley (TOV) code requirements (TOV Zoning Code Section 27.6.B.3). Plants meeting the criteria for Significant Vegetation are shown on the SRI.
- 2. No stands of Significant Vegetation were noted. 3. Mitigation of Significant Vegetation shall be in accordance with TOV Zoning Code Section 27.6.B.4.j.
- 4. Significant Vegetation Information:
- a. Amount present within Grading Limits (canopy diameter assessed as two times the height of tree): 28,886 SF
- b. Amount being disturbed: 28,310 SF
- c. Total percentage disturbed: 98% d. Mitigation Ratio: 2:1
- 5. Required mitigation plants shall be reflected in the Landscape Plans for this project.

### PLANT TRANSPLANTABILITY CRITERIA

Determination of Plant Transplantability is based upon the criteria listed in Section 27.6.B.c.iii of the TOV Zoning Code. All plants that meet the following criteria shall be preserved in place or salvaged. Plants that do not meet these criteria should not be considered for salvage and transplant.

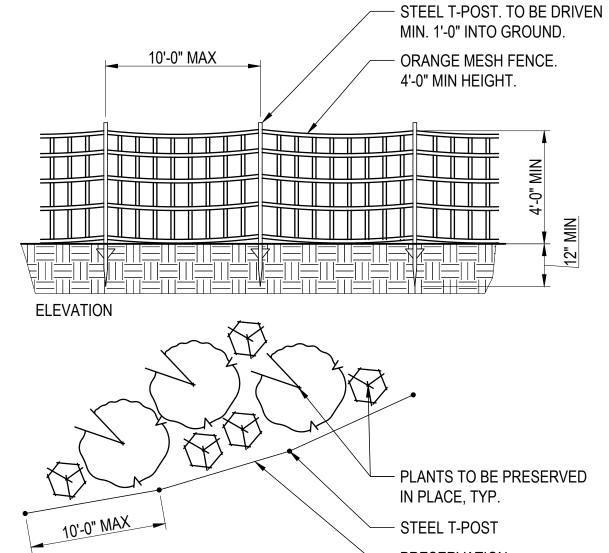
- A. HEALTH: Plant health is good to excellent with no major infestations or apparent diseases. "Plant health" is defined as a plant in a sound state, free from disease and expected to survive for five (5) or more years.
- B. SIZE & AGE: The plant is of a size and age to suggest a likely chance of transplant survival.
- C. SPADEABILITY/DAMAGE: Plant is undamaged and is conducive to box or spade transplanting (upright branching).
- D. SOILS: Soils can be excavated, are cohesive, and appear capable of supporting a boxed or spaded root ball.
- E. TOPOGRAPHY: Surrounding topography permits access with the appropriate equipment needed to box or spade and remove the plant. F. ADJACENT PLANTS: Adjacent plants do not pose a likely interference
- with root systems or interfere with plant removal.
- G. FORM: The overall form and character is representative of the species and is a valuable specimen for landscape or habitat purposes.

### INVASIVE SPECIES

- 1. Two highly invasive species were observed on the site within the project area. a. Buffelgrass (*Pennisetum ciliare*), an invasive species included on the Oro Valley Prohibited Plant List (Addendum E).
- b. Soft Feather Pappusgrass (*Enneapogon Cenchroides*) is native to Africa. Like buffelgrass, it displaces native vegetation and is a fire fuel source.
- 2. Invasive species within the project area should be removed (via mechanical or chemical means) from the site prior to the start of earth disturbance for construction.
- 3. To prevent the introduction and spread of invasive species seeds, all equipment to be used on the site shall be washed and free of all
- plant/vegetation and soil/mud debris prior to entering the construction site. 4. To prevent invasive species seeds from leaving the site, the contractor shall remove all attached plant/vegetation and soil/mud debris from equipment prior to leaving the construction site.
- 5. Continual monitoring for invasive species, and removal, is recommended.

## GENERAL NOTES

- 1. The gross area of development is 8.05 +/- acres
- 2. Total acres of graded area: 8.05 +/- acres
- 3. Total acres of undisturbed area: 0.0
- 4. Required Open Space: 30% meaningful open space 5. The Site Resource Inventory (SRI) was conducted in compliance with Town of Oro Valley (TOV) code requirements (TOV Zoning Code Section 27.6.B.3). Plants listed in Table C-1: Oro Valley Protected Native Plant List, meeting the criteria for significant vegetation, were inventoried.
- 6. Tagging and Flagging: All inventoried plants adhered to the following standards: Tagging: Plants were tagged with a metal tag embossed with an inventory number that cross references the Native Plant Inventory List and Native Plant Inventory Plan.
  - Flagging: Color-coded flagging has been affixed to each inventoried plant:
  - White: Plants proposed for preservation in place (PIP) Blue: Plants proposed for transplant on site (TOS)
  - Red: Plants proposed for removal from site (RFS)
- 7. A native plant inventory shall be conducted, and native plant plans shall be submitted with
- the Conceptual Site Plan or Final Site Plan (as directed by the Town) for the project.
- 8. Plant locations were determined with the assistance of a global positioning system. This system is accurate to within approximately one foot.



- 1. When excavating within 4'-0" from dripline of plants to be preserved in place, hand clear to minimize damage to root systems.
- 2. If roots are encountered during excavation, redirect roots into existing soil areas where

NOTES:

possible. If redirection is not possible, cut roots cleanly with sharp pruning instruments. 3. Do not allow exposed and/or pruned roots to dry out. Provide temporary cover with peat moss, wrap with burlap, and maintain in a moist condition. Support and protect roots from further damage until they are permanently covered with soil.



# SITE RESOURCE INVENTORY **AVILLA RANCHO VISTOSO EAST** 2200136

Disposition Notes

## INVENTORIED SIGNIFICANT VEGETATION

ID | Caliper | Height | Trans- | Criteria

(Inches) (Feet) | plantable

PRESERVATION

FENCING

Parki	1		Palo Verde			
11	19	15	No	B: Size and Age	RFS	
Parki	nsonia mic	rophylla,	Foothill Pal	o Verde (PM)		1
1	13	13	No	C: Damage	RFS	Dieback, Trunk Damage
2	17	12	No	B: Size and Age	RFS	
3	17	14	No	B: Size and Age	RFS	
4	15	14	No	E: Topography	RFS	
5	21	15	No	B: Size and Age	RFS	
7	12	13	No	D: Soils	RFS	
8	12	12	No	G: Form	RFS	
17	14	12	No	E: Topography	RFS	
18	20	17	No	E: Topography	RFS	
19	12	12	No	E: Topography	RFS	
20	14	12	No	A: Health	RFS	Significant Dieback
21	24	16	No	B: Size and Age	RFS	
22	17	13	No	B: Size and Age	RFS	
23	15	12	No	A: Health	RFS	
24	13	12	No	E: Topography	PIP	
25	13	12	No	B: Size and Age	RFS	Box Candidate
26	13	12	No	B: Size and Age	RFS	Box Candidate
27	15	12	No	B: Size and Age	RFS	
28	14	12	No	B: Size and Age	RFS	
29	16	12	No	B: Size and Age	RFS	
30	16	12	No	B: Size and Age	RFS	
31	16	12	No	B: Size and Age	RFS	
32	15	15	No	A: Health	RFS	Significant Dieback
33	12	14	No	B: Size and Age	RFS	Box Candidate
34	17	12	No	D: Soils	RFS	
35	17	14	No	B: Size and Age	RFS	Box Candidate
39	18	16	No	B: Size and Age	RFS	
40	20	14	No	B: Size and Age	RFS	
41	12	12	No	B: Size and Age	RFS	Box Candidate
42	30	18	No	B: Size and Age	RFS	
43	21	14	No	E: Topography	RFS	
44	12	15	No	B: Size and Age	RFS	
45	12	14	No	B: Size and Age	RFS	
			Mesquite (F	•		
6	20	12	No	B: Size and Age	RFS	
9	26	20	No	B: Size and Age	RFS	
10	20	20	No	B: Size and Age	RFS	
12	17	15	No	B: Size and Age	RFS	
13	27	18	No	B: Size and Age	RFS	
13	14	18	No	B: Size and Age	RFS	
14	14	16	No	B: Size and Age	RFS	
36	21	14	No	B: Size and Age	RFS	
30	12	14	No	C: Damage	RFS	
46	36	17	No	B: Size and Age	RFS	
		20				
47	25		No	B: Size and Age	RFS	
49 Sena	13	15 Catelau	No	E: Topography	RFS	
			v Acacia (SG			
38 Vaab	17	12	No	C: Damage	RFS	
			tethorn Aca	. ,	850	I
15	12	15	No	B: Size and Age	RFS	
48	12	16	No	E: Topography	RFS	

# SIGNIFICANT VEGETATION SUMMARY

Botanical Name	Common Name	Preserve in Place (White Flagging)	Transplant (Blue Flagging)	Remove from Site (Red Flagging)	Remove from Site (Health - Red Flagging)	Total per Species
Parkinsonia florida	Blue Palo Verde			1		1
Parkinsonia microphylla	Foothill Palo Verde	1		29	3	33
Prosopis velutina	Velvet Mesquite			12		12
Senegalia greggii	Catclaw Acacia			1		1
Vachellia constricta	Whitethorn Acacia			2		2
TOTAL ALL SPECIES		1	0	45		49

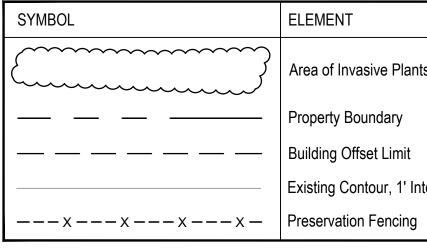
# SIGNIFICANT VEGETATION MITIGATION

Required mitigation is per Table 27-1 and % Significant Vegetation disturbance. 49 Significant Trees were inventoried; 45 are designated for removal. Three of the 49 trees are noted as untransplantable due to health. Percentage of viable Significant Vegetation to be removed from site (measured as the square footage of the ground cover area) is 98%.

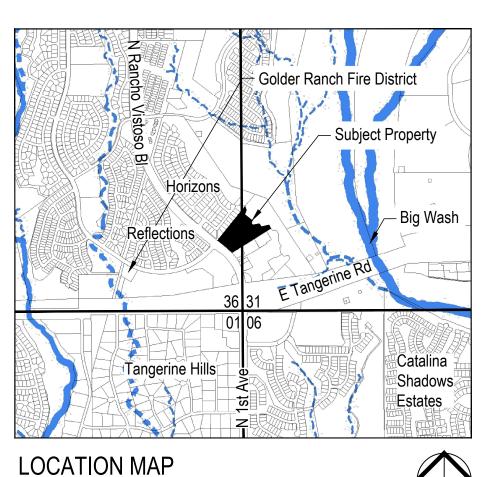
Significant vegetation to be removed from site (measured as the square footage of the ground cover area) is 90%.					
Species	QTY of Viable SV to be Removed	Mitigation Ratio	Replacement Trees (48" Box)	Replacement Trees (36" Box)	Understory Plants Required
Parkinsonia florida (Blue Palo Verde)	1	2:1	1	1	10
Parkinsonia microphylla (Foothill Palo Verde)	29	2:1	29	29	290
Prosopis velutina (Velvet Mesquite)	12	2:1	12	12	120
Senegalia greggii (Catclaw Acacia)	1	2:1	1	1	10
Vachellia constricta (Whitethorn Acacia)	2	2:1	2	2	20
TOTAL MITIGATION REQUIRED			45	45	450

Mitigation planting shall be shown on the Landscape Plan. Under-story plants shall be selected from the Supplemental Native Plant List, Addendum C, and shall either be transplanted from on-site or nursery plants.

# SYMBOL / LINETYPE LEGEND



NTS



Portion of Section 36, Township 11S, Range 13E 3" = 1 Mile and Section 31, Township 11S, Range 14E, G & S.R.M., Town of Oro Valley, Pima County, Arizona

### ASSESSOR PARCEL NUMBER (APN) 219-54-003B

Area of Invasive Plants

Property Boundary

Building Offset Limit

Existing Contour, 1' Interval

### SHEET INDEX

- 1 SITE RESOURCE INVENTORY COVER
- SHEET & SUMMARY TABLES
- 2 SITE RESOURCE INVENTORY PLAN

### OWNER

PWP LLC 8701 E VISTA BONITA DRIVE. #220 SCOTTSDALE, AZ 85255

ATTENTION: STEWART JEAN PH: 602-264-1300 EMAIL: SJEAN@PARKWESTPARTNERS.COM

### DEVELOPER

NEXMETRO DEVELOPMENT LLC 2355 E CAMELBACK RD #805 PHOENIX, AZ 85016

ATTENTION: JARED GEISLER PH: 602-339-2091 EMAIL: JARED@NEXMETRO.COM

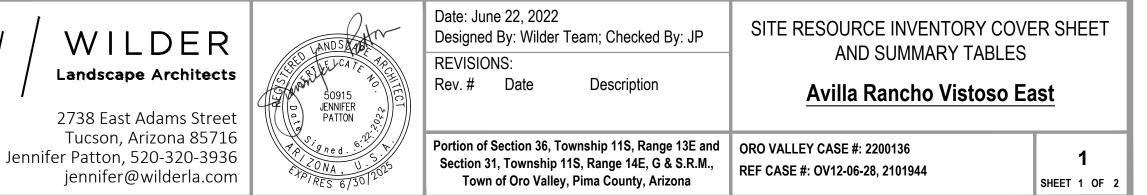
### LANDSCAPE ARCHITECT

WILDER LANDSCAPE ARCHITECTS 2738 E. ADAMS STREET TUCSON, AZ 85716 PHONE: 520-320-3936 ATTENTION: JENNIFER PATTON, PLA JENNIFER@WILDERLA.COM

### **APPROVAL**

### PLANNING & ZONING ADMINISTRATOR

DATE





# SITE RESOURCE INVENTORY 40 20 0 40 1" = 40'-0"

# SYMBOL LEGEND Significant Vegetation

Plant Type	Preserve	Transplant	Remove	Remove
	in Place	on Site	From Site	From Site
	(PIP)	(TOS)	(RFS)	(Health)
Tree, Significant	$\bigcirc$	N/A		

# INVENTORIED PLANTS

Abbrev	BOTANICAL NAME	COMMON NAME
PF		
	Parkinsonia florida	Blue Palo Verde
PM	Parkinsonia microphylla	Foothill Palo Verde
PV	Prosopis velutina	Velvet Mesquite
SG	Senegalia greggii	Catclaw Acacia
VC	Vachellia constricta	Whitethorn Acacia

Refer to Site Resource Inventory Tables for a complete list of inventoried plants.

ID

SYMBOL	ELEMENT
PV1	Plant Identification Number. Refer
	to Schedule of Inventoried Plants.

# SYMBOL / LINETYPE LEGEND

SYMBOL	ELEMENT
	Area of Invasive Plants
	Property Boundary
	Building Offset Limit
	Existing Contour, 1' Interval
xxxx	Preservation Fencing

Sogned Street

Date: June 22, 2022 Designed By: Wilder Team; Checked By: JP			
REVISIONS:			
Rev. #	Date	Description	
Portion of Section 36, Township 11S, Range 13E an			

SITE RESOURCE INVENTORY PLAN

# Avilla Rancho Vistoso East

and ORO VALLEY CASE #: 2200136 REF CASE #: OV12-06-28, 2101944

### **APPENDIX B – BIBLIOGRAPHY**

Your Voice Our Future 2016. Town of Oro Valley General Plan.

Oro Valley Town Code. Town of Oro Valley, Arizona: March 2022.

Rancho Vistoso Planned Area Development. Town of Oro Valley: Adopted June 1987, and as amended through June 2021.

<u>Pima County MapGuide</u>. Map. Pima County Geographic Information Systems, 2022. <u>http://gis.pima.gov/maps/mapguide/</u>

<u>FEMA National Flood Hazard Layer (NFHL) Viewer</u>. Map. Federal Emergency Management Agency, 2022. <u>http://hazards-fema.maps.arcgis.com/apps/webappviewer/</u>

<u>Arizona Game & Fish Dept Online Environmental Review Tool</u>. Arizona Game & Fish Department, 2022. <u>http://ert.azgfd.gov/</u>