AVILLA RANCHO VISTOSO (WEST) REZONING SITE ANALYSIS

(2200222)

PREPARED FOR:

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IN COLLABORATION WITH:









DECEMBER 2022

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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 7-I, which is the Western portion of the project. The Subject Property (the "Property") consists of 18.1± acres and is currently undeveloped. The Property is located just north of Tangerine Road, west of Rancho Vistoso Boulevard, and south of Woodburne Avenue 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 and Open Space. The Property is surrounded by residential developments, the Golder Ranch Fire Station 375, a Unisource Energy Corp facility, Tangerine Road, a regionally significant arterial roadway, undeveloped parcels, and open space.



This document has been prepared in support of a request to rezone the approximately 16.0-acre portion of the Property that is zoned C-1 Community Commercial in the Rancho Vistoso PAD to High-Density Residential (HDR) in the PAD in order to allow the development as proposed. A small sliver of PAD Open Space in the southwest corner of the property will be retained as open space, as will the open space associated with the wash forming the eastern boundary of the site (except as needed for the roadway crossing). 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 Tangerine Road 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 18.1± acres located in the Town of Oro Valley in Section 36, Township 11 south, Range 13 east, Pima County Arizona. The site is northwest of the intersection of Tangerine Road and Rancho Vistoso Blvd., within the Rancho Vistoso PAD. The Pima County Tax Assessor designates the subject property as parcel number 219-54-002L. See Exhibit II-A-1: Site Location Map.

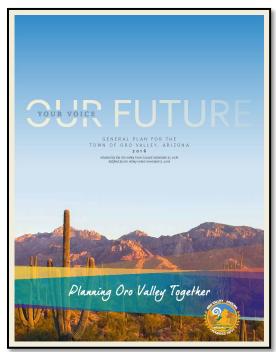
The Project's administrative address has yet to be determined.

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 (Community Commercial District) and Open Space in the Rancho Vistoso PAD.

The Your Voice Our Future General Plan designates this Property as Neighborhood Commercial / Office and Open Space and is within a Tier 2 Growth Area. These land use designations are appropriate for the Property, as proposed. As stated in the General Plan, Growth Areas are areas "that are particularly suitable for planned multimodal transportation 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 Woodburne Avenue and Reflections a Single-Family Residential Subdivision & Open Space
NE:	Existing zoning: Existing land use:	Open Space – PAD & HDR (High Density Residential -PAD) Woodburne Avenue and Reflections a Single-Family Residential Subdivision & Open Space
E:	Existing zoning: Existing land use:	Open Space – PAD & C-1 (Community Commercial – PAD) Open Space & Vacant Land
SE:	Existing zoning:	C-1 (Community Commercial – PAD), & C-2 (Commercial District)
	Existing land use:	Tangerine Road & the Oro Valley Retail Center
S:	Existing zoning:	C-1 (Community Commercial – PAD) & R1-36 (Single-Family Residential)
	Existing land use:	Tangerine Road & the Tangerine Hills Single-Family Residential Subdivision
SW:	Existing zoning:	Open Space - PAD, R1-144 (Single-Family Residential), R1- 36 (Single-Family Residential), & TZ-1 (Single Residence Zone – PAD)
	Existing land use:	Tangerine Road & the Tangerine Hills Single-Family Residential Subdivision
W:	Existing zoning:	Open Space - PAD, R1-144 (Single-Family Residential), & MHDR (Medium-High Density Residential – PAD)
	Existing land use:	The Golder Ranch Fire Station 375, Unisource Energy Corporation Facility, & The Overlook at Rancho Vistoso Single-Family Residential Subdivision
NW:	Existing zoning:	Open Space - PAD & MHDR (Medium High Density
	Existing land use:	Residential – PAD) Woodburne Avenue and Horizons a 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

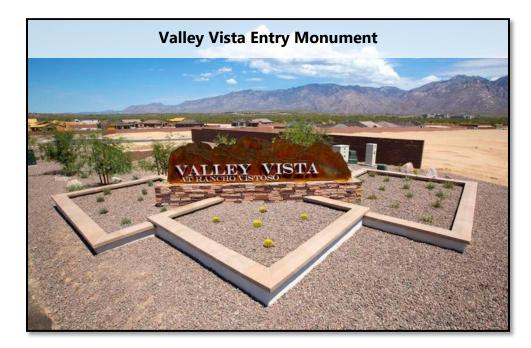
Parcel 5-U, which is the Eastern portion of Avilla Rancho Vistoso, is proposed several hundred feet to the east of the property.

iv. Nearby Conditionally Approved Rezonings

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

v. Nearby Approved Subdivisions & Development Plans

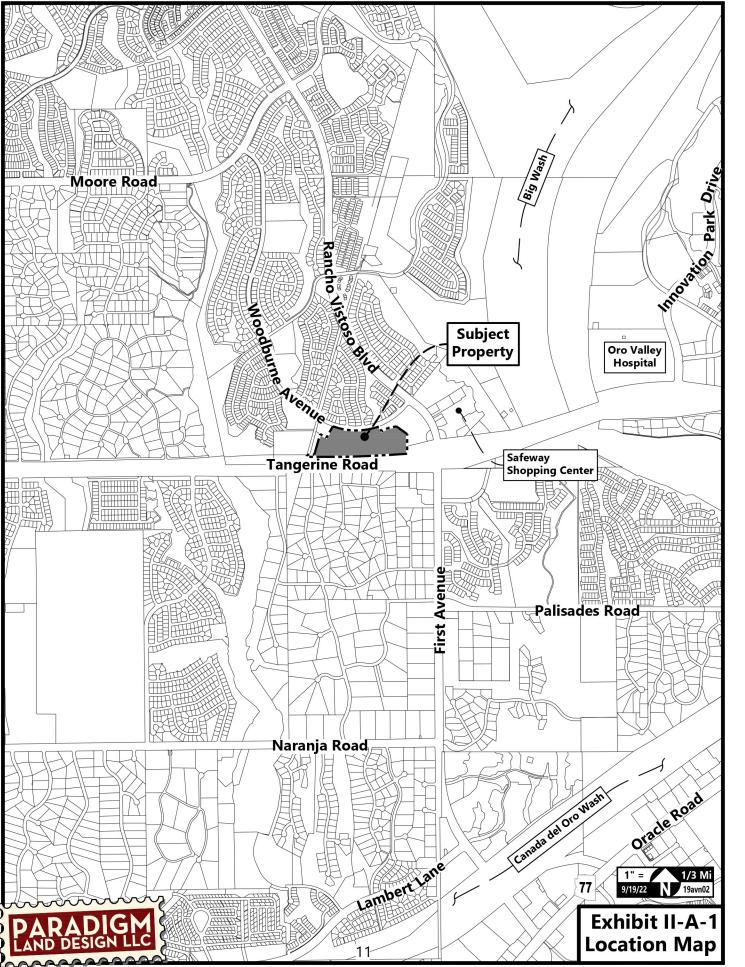
The Valley Vista at Rancho Vistoso Subdivision has recently been approved and is currently under construction. It is approximately one-half mile northeast of the subject property.



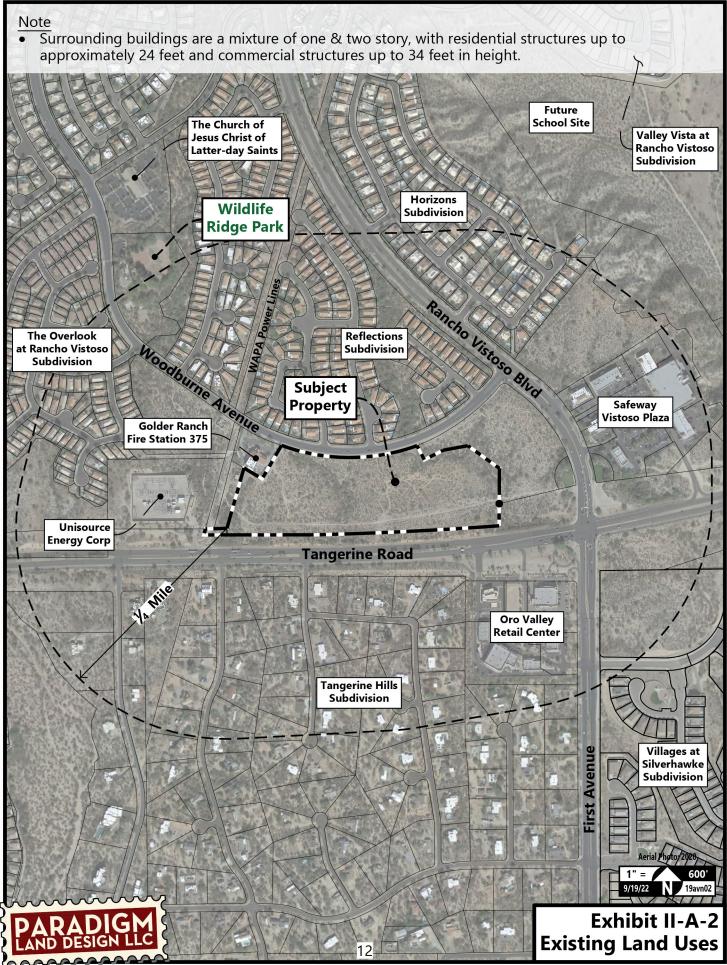
vi. Architectural Styles used in Adjacent Properties

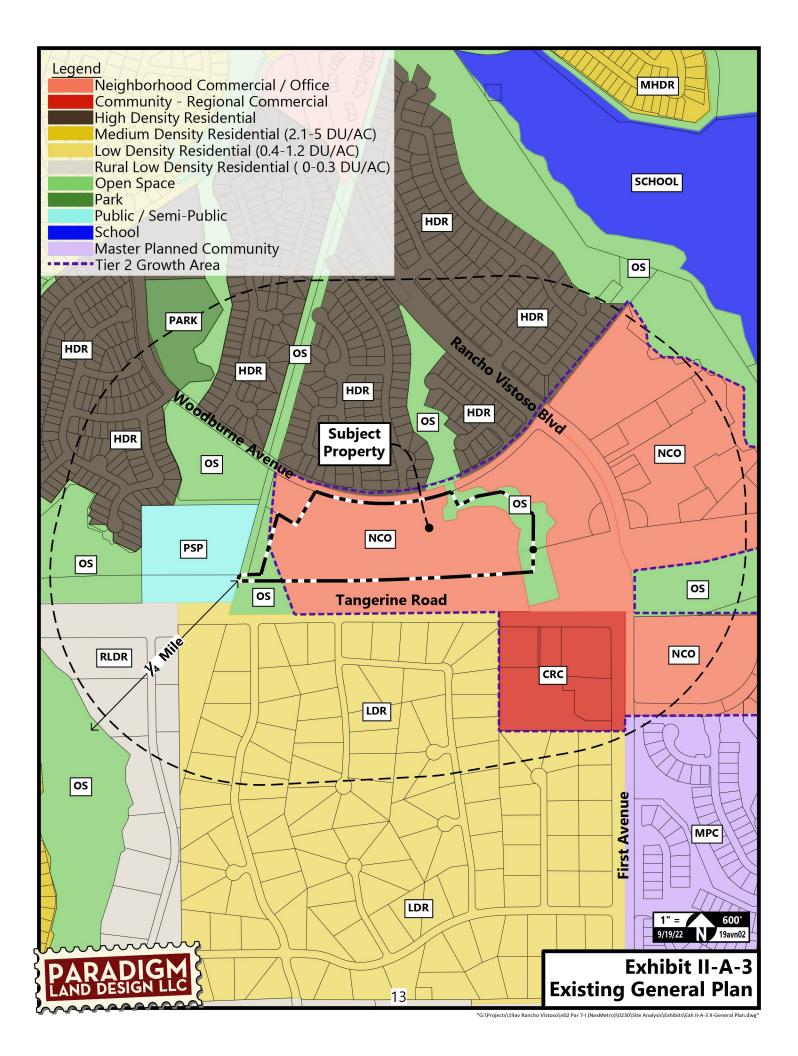
The architectural styles used in adjacent residential and commercial projects are mainly wood frame or block construction that utilize a stucco and/or stone veneer and have either a flat or tiled roof.

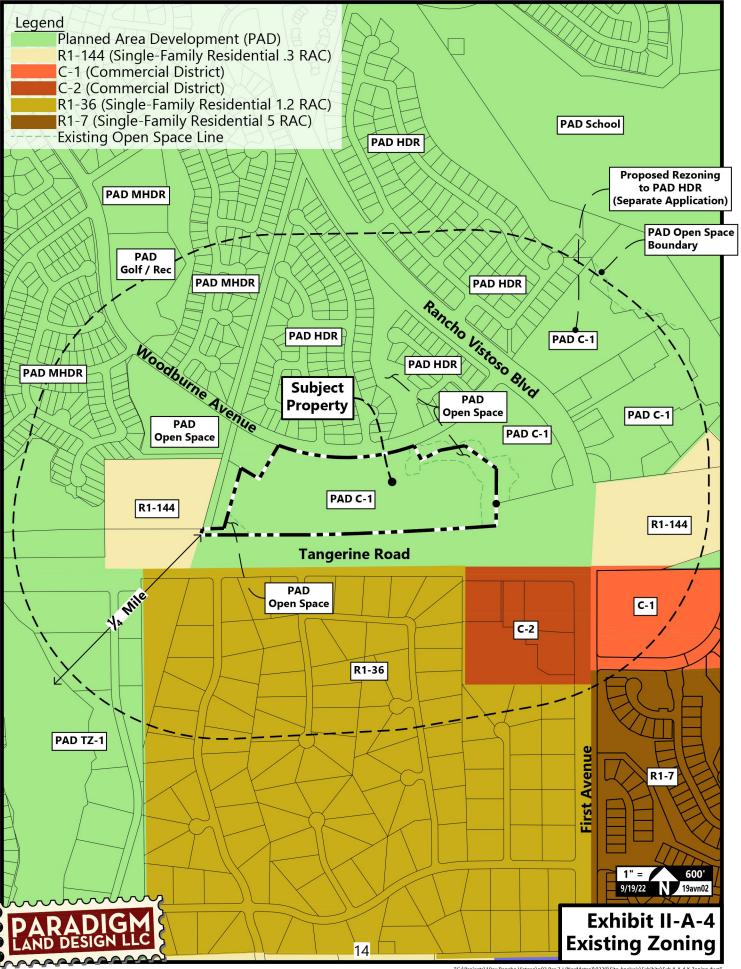




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B. Environmentally Sensitive Lands (ESL)

1. ESL Categories Onsite

ESL does not apply to this parcel because over 25% of Rancho Vistoso has been developed with infrastructure or finished building pads.

2. Additional ESL Characteristics

There are no regulated rock outcrops on the subject property.

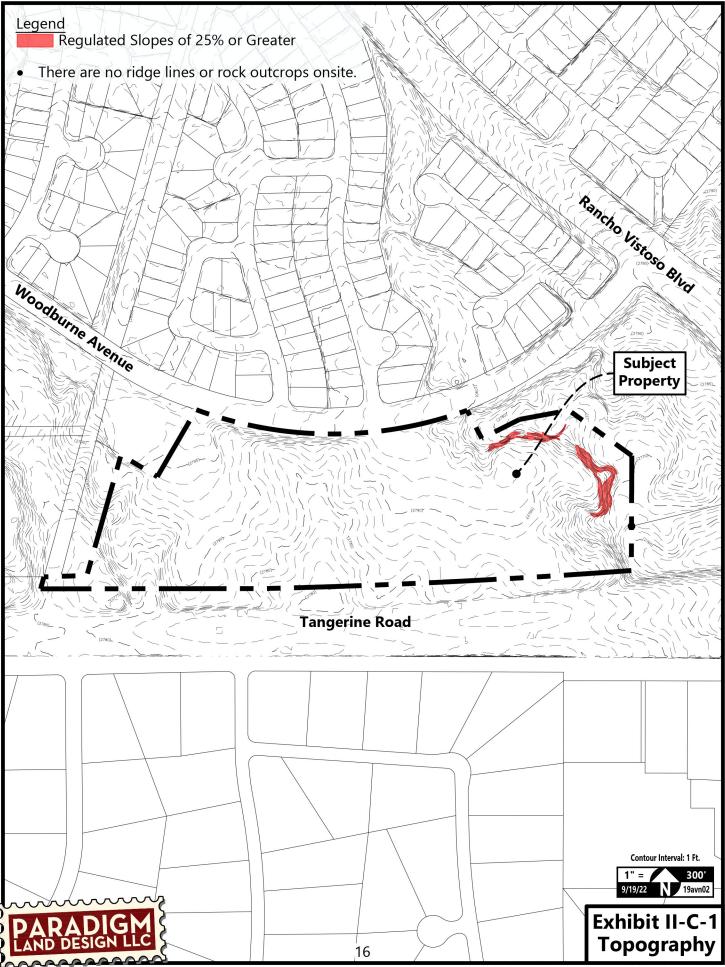
3. Total Acreage Present Onsite for each Conservation Category

Conservation Category	Acreage
Major Wildlife Linkage	0
Critical Resource Area	1.6±
Core Resource Area	0
Resource Management Area Tier 1	0
Resource Management Area Tier 2	0
Resource Management Area Tier 3	16.5±

C. TOPOGRAPHY

The topography of the Property is characterized by relatively flat terrain and some undulating areas towards the eastern side of the property where it slopes downwards at approximately 10%. The property generally slopes gently downward from northwest to south and southwest. Elevations range from approximately 2,798 feet above sea level at the northwestern corner to approximately 2,768 feet above sea level at the southeastern corner of the property. The Property is subject to the hillside district per Section 1.3(J)(1) the Rancho Vistoso PAD. The only slopes that meet the criteria for needing a trade or being preserved meet the criteria onsite are small areas along the eastern boundary of the Property, some of which will be disturbed for roadway construction as permitted by the PAD. 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%	0.3±
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 SWCA 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.

CK V	
SM)	
Ra	SAACA ³ 343 West Franklin Street Tucson, 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. ¹ 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 Vistos 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.
	¹ 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.

Ε. HYDROLOGY

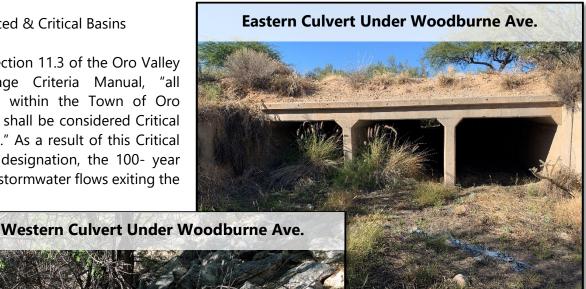
This section of the site analysis describes onsite and offsite hydrologic and hydraulic characteristics and is based on information provided by Bowman Consulting. Please refer to Exhibit II-E-1.

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

Four Offsite Watersheds (Watersheds 1 thru 3 and 9 as shown on Exhibit II-E-1: Onsite Hydrology) impact the subject property. Watershed 1, discharging from an outlet culvert (3-30" CMP's) onto the most north and west portion of the property, is approximately 8.3 acres in size, is predominately residential, and brings about 61 cubic feet per second ("CFS") during a 1% annual chance storm event (Q100=61 CFS). Watershed 2, discharging across the central portion of the north property line is approximately 22 acres in size, is predominately residential, and brings about (Q100=170 CFS). Watershed 3, discharging across the easterly portion of the north property line is approximately 10.4 acres in size, the upstream portion is predominately residential, and the downstream portion is undeveloped land with about 30% vegetation. Watershed 3 brings about (Q100=70 CFS). Watershed 9, discharging across the westerly portion of the north property line is approximately one acre in size, is predominately commercial, and brings about 10 CFS to the subject property during a 1% annual chance storm event.

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

A roadway drainageway crossing discharges at the northwesterly portion of the site (Concentration Point #1 or CP1). CP1 is combined with Watershed 6 and discharges across the south property line. Similarly, a roadway drainageway crossing discharges at the northeasterly portion of the site. The combined flow from Watersheds 2 and 3 is channelized about 300 feet to the south property line.

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

The central wash bisecting the site has a 100-year flow exceeding 100 CFS (Watershed 2, Q100 = 170 CFS). The upstream watershed area is approximately 22 acres.

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

A regulatory floodplain is mapped across the westerly portion of the site (within Watershed 6). Watershed 1 combines with Watershed 6 and discharges (Q100=110 CFS).

There is also another regulatory floodplain along the easterly portion of the site where Watersheds 7 and 8 (Q100=14+9 = 23 CFS) combine with the Offsite Watersheds 2 and 3 (Q100=170+70 = 240 CFS) for a total of (Q100=23+240 = 263 CFS).

Watershed 9 combines with Watershed 4 along the western edge of the site, bringing about (Q100=14 CFS). Watershed 5 discharges across the south property line with (Q100=8 CFS). Therefore, the westerly and easterly portion of the subject property are impacted by locally administered floodplain as shown in Exhibit II-E-1: Onsite Hydrology.

ii. Areas of Sheet Flooding and Average Depths

Onsite areas of sheet flooding are virtually none existing within this area, where all runoff is channelized onto natural washes.

iii. Federally mapped floodways and floodplains

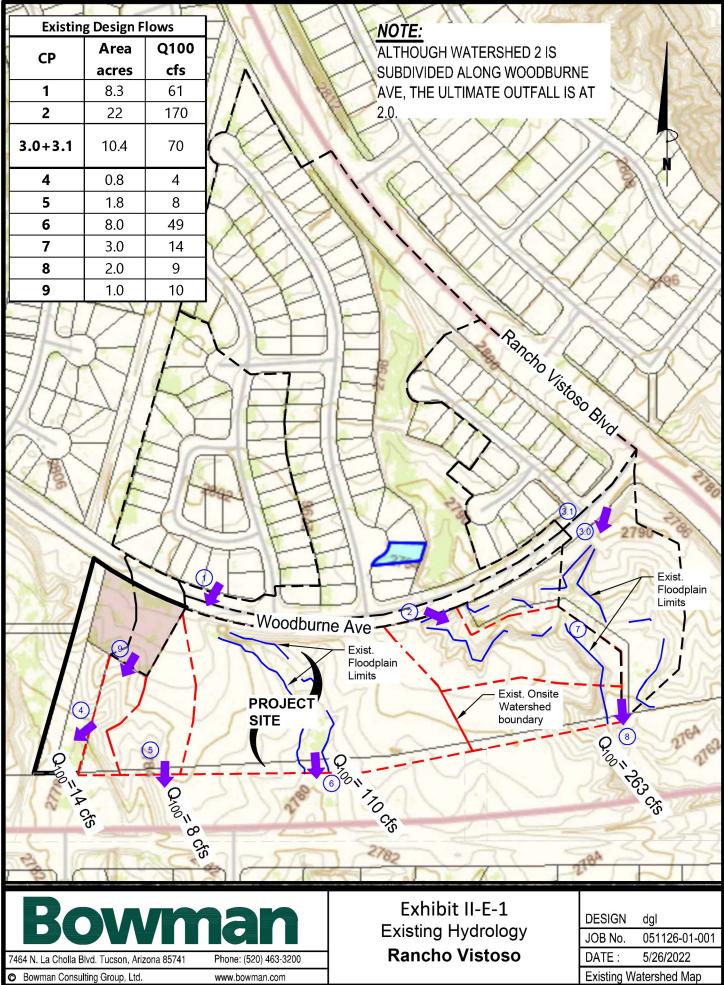
The FEMA Flood Insurance Rate Map Panel 04019C1090L shows the entire Property to be in Zone X which indicates "areas determined to be outside the 0.2% annual chance floodplain".

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

Drainage generally exits the site at three concentration points (CP's 4, 6, and 8) across the west and south property lines.



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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.

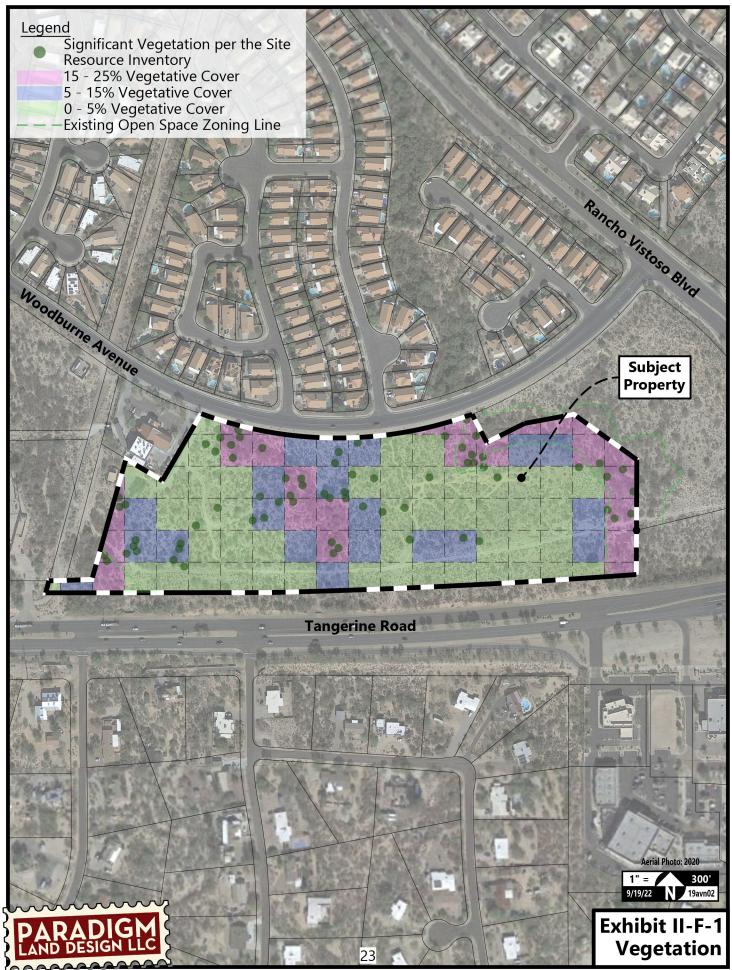
3. Vegetative Densities

Vegetative density of the Property is approximately 35% plant cover. See Exhibit II-F-1: Vegetation.

Typical Vegetation Onsite







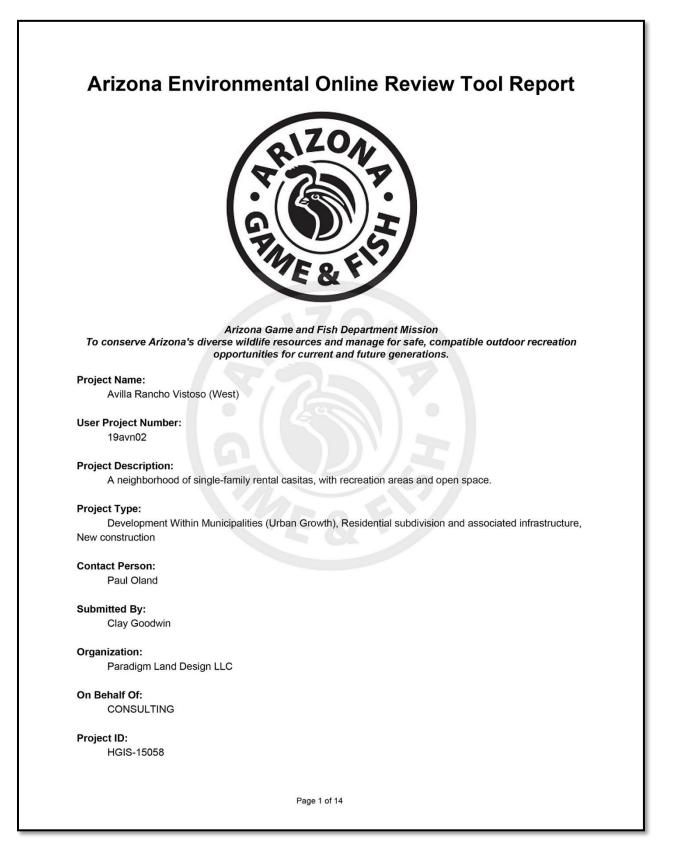
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G. WILDLIFE

The Arizona Game and Fish Department's online review tool has been consulted, and the Environmental Review report, dated December 3, 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

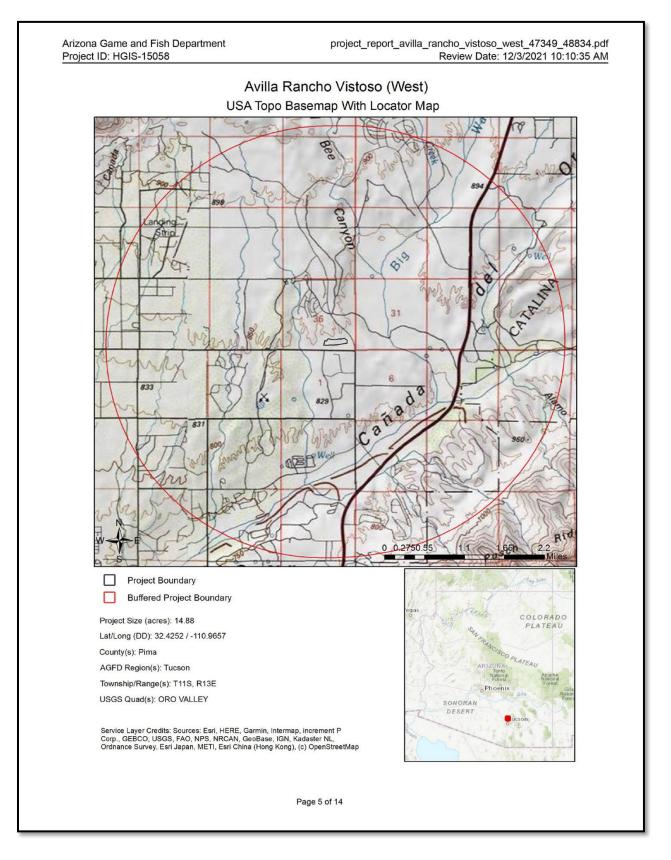


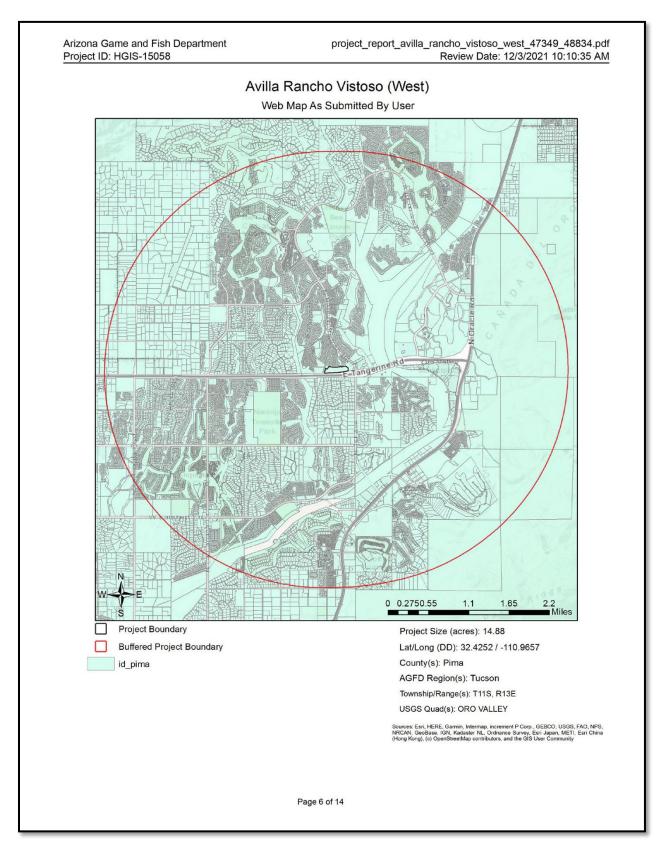
Please review the entire report for project type and/or species recommendations for the location information entered. Please retain a copy for future reference.

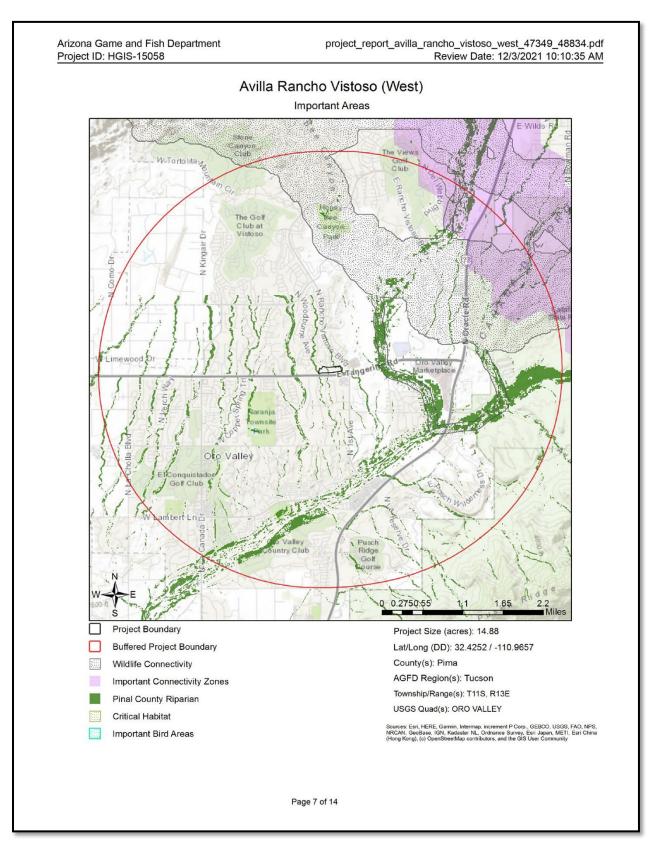
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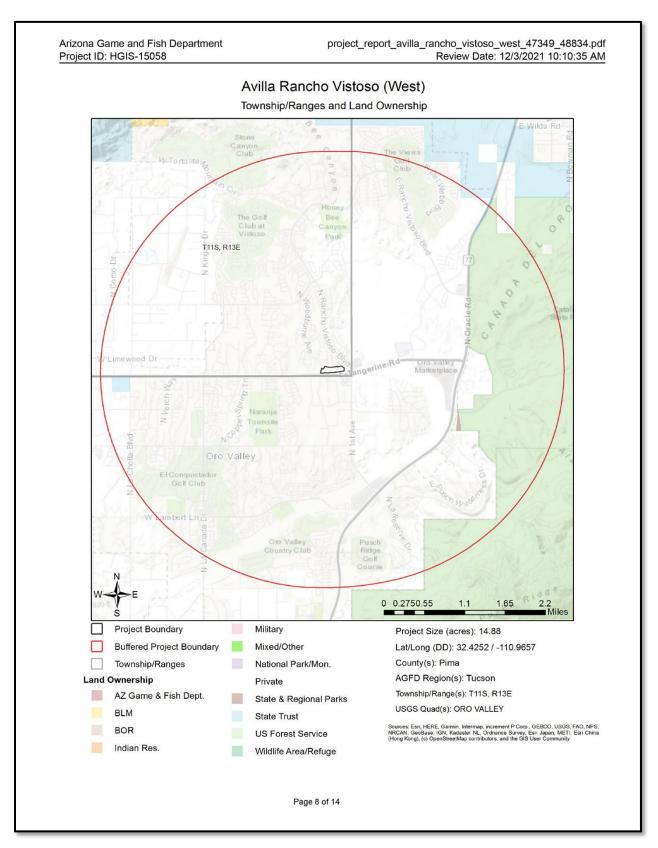
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 the project study area, loc 2. This is a preliminary envir having a biologist conduct environmental consultation permitting, or the Departm 3. The Departments Heritag distribution of special stat conditions that are ever cl about or species previous information about species been surveyed for special and intensity. Such survey 4. HabiMap Arizona data, sp Action Plan (SWAP) and distribution models for the 	w is based on the project study area that was entered. The report must be updated if ation, or the type of project changes. onmental screening tool. It is not a substitute for the potential knowledge gained by a field survey of the project area. This review is also not intended to replace in (including federal consultation under the Endangered Species Act), land use ents review of site-specific projects. e Data Management System (HDMS) data is not intended to include potential us species. Arizona is large and diverse with plants, animals, and environmental hanging. Consequently, many areas may contain species that biologists do not know ly noted in a particular area may no longer occur there. HDMS data contains occurrences that have actually been reported to the Department. Not all of Arizona has status species, and surveys that have been conducted have varied greatly in scope rs may reveal previously undocumented population of species of special concern. ecifically Species of Greatest Conservation Need (SGCN) under our State Wildlife Species of Economic and Recreational Importance (SERI), represent potential species State of Arizona which are subject to ongoing change, modification and refinement. ource can change quickly, and the availability of new data will necessitate a refined
Locations Accuracy Disclaime	
	: be both precise and accurate for the purposes of environmental review. The ew Report is solely responsible for the project location and thus the correctness of the
Project locations are assumed to creator/owner of the Project Revi	be both precise and accurate for the purposes of environmental review. The

Arizona Game and Project ID: HGIS-1		project_report_avilla_rancho_vistoso_west_47349_48834.pd Review Date: 12/3/2021 10:10:35 Al
Recommendation	s Disclaimer:	
 The Depart in this repo- nongame w Recommer (Amuseme Potential in from inform designed to Making this and should proposals. Further coo- letter and p constructio Once AGFI to: Project Ev Arizona Gä 5000 West Phoenix, A Phone Nut Fax Numb Or PEP@azgf Coordinatic Species Ad 	ment is interested in the cons rt and those that may have no vildlife. Idations have been made by the main of the sports), 17 (Game ar apacts to fish and wildlife reso to provide early considerations information directly available not decrease our opportunity profination with the Department roject plans or documentation in or project activity(s) are to the D had received the information aluation Program, Habitat E ame and Fish Department Carefree Highway vitizona 85086-5000 mber: (623) 236-7660 er: (623) 236-7660 er: (623) 236-7366	e does not substitute for the Department's review of project proposals, to review and evaluate additional project information and/or new project at requires the submittal of this Environmental Review Report with a cover in that includes project narrative, acreage to be impacted, how be accomplished, and project locality information (including site map). In, please allow 30 days for completion of project reviews. Send requests Branch
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Special State	us Species Documented within 3 Mile	s of Pro	piect Vic	inity		
Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Abutilon parishii	Pima Indian Mallow	SC	S	S	SR	
Coccyzus americanus	Yellow-billed Cuckoo (Western DPS)	LT	s	s		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
Leptonycteris yerbabuenae	Lesser Long-nosed Bat	SC				1A
Lithobates yavapaiensis	Lowland Leopard Frog	SC	S	S		1A
Special Areas Scientific Name	Documented that Intersect with Proje Common Name	ct Foot FWS	print as USFS	Drawn BLM	NPL	SGCN
Riparian Area	Riparian Area	1110	0010	DLIN		ocon
	found at https://www.azgfd.com/wildlife/ ion Need Predicted that Intersect with Predicted Range Models					
Species of Greatest Conservati	on Need Predicted that Intersect with					
	on Need Predicted that Intersect with Predicted Range Models	Projec	t Footpr	int as D	rawn, b	based or
Species of Greatest Conservati	on Need Predicted that Intersect with Predicted Range Models Common Name	Projec	t Footpr	int as D	rawn, b	based or SGCN
Species of Greatest Conservati Scientific Name Aix sponsa	on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck	Projec	t Footpr	int as D	rawn, b	oased or SGCN 1B
Species of Greatest Conservati Scientific Name Aix sponsa Ammospermophilus harrisii	ion Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel	Projec FWS	t Footpr	int as D	rawn, b	SGCN 1B 1B
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii	ion Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit	Projec FWS	t Footpr USFS	int as D	rawn, b	SGCN 1B 1B 1A
Species of Greatest Conservati Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos	on Need Predicted that Intersect with Predicted Range Models Common Name Wood Duck Harris' Antelope Squirrel Sprague's Pipit Buff-collared Nightjar	Projec FWS SC	t Footpr USFS	int as D BLM	rawn, b	SGCN 1B 1B 1A 1A
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma	ion 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	t Footpr USFS S	int as D BLM	rawn, b	SGCN 1B 1B 1A 1B 1B 1B
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis xanthonota	ion 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	Projec FWS SC BGA SC	t Footpr USFS S S	int as D BLM	rawn, b	SGCN 1B 1B 1A 1B 1B 1B 1B
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis xanthonota Botaurus lentiginosus	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	Projec FWS SC BGA SC	t Footpr USFS S S	int as D BLM	rawn, b	SGCN 1B 1B 1A 1A 1B 1B 1B 1B 1B
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Aspidoscelis xanthonota Botaurus lentiginosus Calypte costae	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	t Footpr USFS S S	int as D BLM	rawn, b	SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Botaurus lentiginosus Calypte costae Chilomeniscus stramineus	ion 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	t Footpr USFS S S	int as D BLM	rawn, b	SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B 1C
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Aspidoscelis xanthonota Botaurus lentiginosus Calypte costae Chilomeniscus stramineus Colaptes chrysoides	Kon 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 Variable Sandsnake	Projec FWS SC BGA SC	t Footpr USFS S S	int as D BLM S	rawn, b	SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1C 1B
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Botaurus lentiginosus Calypte costae Chilomeniscus stramineus Colaptes chrysoides Coluber bilineatus	Ton 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	t Footpr USFS S S	int as D BLM S	rawn, b	SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1C 1B 1B 1B
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	Ton 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 SC	t Footpr USFS S S S	int as D BLM S	rawn, b	SGCN 1B 1B 1A 1B 1B 1B 1B 1C 1B 1B 1B 1B 1B 1B 1B
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Aspidoscelis strictogramma Botaurus lentiginosus Calypte costae Chilomeniscus stramineus Colaptes chrysoides Coluber bilineatus Corynorhinus townsendii pallescens Crotalus tigris Cynanthus latirostris	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 Variable Sandsnake Gilded Flicker Sonoran Whipsnake Pale Townsend's Big-eared Bat	Projec FWS SC BGA SC SC	t Footpr USFS S S S	BLM S S	rawn, b	SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B
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 Coluber bilineatus Corynorhinus townsendii pallescens Crotalus tigris Cynanthus latirostris Dipodomys spectabilis	For 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 Variable Sandsnake Gilded Flicker Sonoran Whipsnake Pale Townsend's Big-eared Bat Tiger Rattlesnake	Projec FWS SC BGA SC SC	t Footpr USFS S S S	int as D BLM S	rawn, b	SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B
Species of Greatest Conservation Scientific Name Aix sponsa Ammospermophilus harrisii Anthus spragueii Antrostomus ridgwayi Aquila chrysaetos Aspidoscelis stictogramma Aspidoscelis stictogramma Aspidoscelis strictogramma Botaurus lentiginosus Calypte costae Chilomeniscus stramineus Colaptes chrysoides Coluber bilineatus Corynorhinus townsendii pallescens Crotalus tigris Cynanthus latirostris	For Need Predicted that Intersect with Predicted Range Models 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 Variable Sandsnake Gilded Flicker Sonoran Whipsnake Pale Townsend's Big-eared Bat Tiger Rattlesnake Broad-billed Hummingbird	Projec FWS SC BGA SC SC	t Footpr USFS S S S	BLM S S	rawn, b	SGCN 1B 1B 1A 1B 1B 1B 1B 1B 1C 1B 1B 1B 1B 1B 1B 1B 1B 1B

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Project ID: HGIS-15058							
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	
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	
Toxostoma lecontei	LeConte's Thrasher			S		1B	
Troglodytes pacificus	Pacific Wren					1B	
Vireo bellii arizonae	Arizona Bell's Vireo					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
Vulpes macrotis	Kit Fox	No Status				1B
Species of Economic an Scientific Name	d Recreation Importance Predict Common Name	ted that Intersect w FWS	-		-	s Drawn SGCN
Callipepla gambelii	Gambel's Quail	1110	0010	DEM		0001
Odocoileus hemionus	Mule Deer					
Pecari tajacu	Javelina					
Puma concolor	Mountain Lion					
Zenaida asiatica	White-winged Dove					
Zenaida macroura	Mourning Dove					
considered for fencing anticip	ice height 42", minimum height for l ated to be routinely encountered by	y elk, bighorn sheep	or prong	horn (e.	g., Pror	nghorn
considered for fencing anticip rencing would require 18" min on Wildlife Friendly Guideline https://www.azgfd.com/wildlife During the planning stages of connectivity, and access to ha nates, reduces gene flow, pro- ultimately prevents wildlife fro numbers, and resistance to in for wildlife and should be main	ated to be routinely encountered by himum height on the bottom). Pleas s page, which is part of the WIIdlife e/planning/wildlifeguidelines/. Fyour project, please consider the le abitat needs. Loss of this permeabil events wildlife from re-colonizing ar or contributing to ecosystem function avasive species. In many cases, stru- ntained in their natural state. Uplan	y elk, bighorn sheep te refer to the Depart Planning button at ocal or regional need lity prevents wildlife reas where local exti ons, such as pollinat eams and washes p ids also support a lai	or prong tment's F ds of wild from acc rpations ion, seed rovide na rge diver	llife in re essing r may ha d dispers atural m sity of s	g., Pror Guidelin egards to esource ve occu sal, con ovemen pecies,	be nghorn les located o movement es, finding rred, and trol of prey t corridors and should
considered for fencing anticip fencing would require 18" min on Wildlife Friendly Guideline <u>https://www.azgfd.com/wildlife</u> During the planning stages of connectivity, and access to ha mates, reduces gene flow, pre ultimately prevents wildlife fro numbers, and resistance to in for wildlife and should be mai be contained within important can be facilitated through imp variety of wildlife. Guidelines f	ated to be routinely encountered by nimum height on the bottom). Pleas s page, which is part of the WIIdlife e/planning/wildlifeguidelines/. Fyour project, please consider the le abitat needs. Loss of this permeabil events wildlife from re-colonizing ar or contributing to ecosystem function avasive species. In many cases, stru-	y elk, bighorn sheep te refer to the Depart Planning button at ocal or regional need lity prevents wildlife reas where local exti ons, such as pollinat eams and washes p ids also support a lai dition, maintaining bi	or prong iment's F ds of wild from acc rpations ion, seed rovide na rge diver iodiversit	life in re essing r may ha d dispers atural m sity of s y and e	g., Pror Guidelir egards to esource ve occu sal, con ovemen pecies, cosystem	be aghorn les located o movement es, finding rred, and trol of prey t corridors and should m functions
considered for fencing anticip fencing 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, pru ultimately prevents wildlife fro numbers, and resistance to in for wildlife and should be main be contained within important be contained within important is 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	ated to be routinely encountered by himum height on the bottom). Pleas s page, which is part of the WIIdlife <u>a/planning/wildlifeguidelines/</u> . Fyour project, please consider the le abitat needs. Loss of this permeabil events wildlife from re-colonizing ar om contributing to ecosystem function vasive species. In many cases, stru- ntained in their natural state. Uplan twildlife movement corridors. In addo proving designs of structures, fences for many of these can be found	y elk, bighorn sheep the refer to the Depart Planning button at ocal or regional need lity prevents wildlife reas where local exti ons, such as pollinat eams and washes p dis also support a lai dition, maintaining bi s, roadways, and cu asures or alternative: duct wildlife surveys and natural history amount of light need as affected by lighting	or prong iment's F ds of wild from acc rpations ion, seed rovide na rge diver iodiversit lverts to s that can to detern to detern to detern ed for sa	horn (e. encing essing r may har d dispers atural m sity of s y and er promote n be tak nine spe nine if al fety. Na	g., Pror Guidelir egards to esource ve occu sal, com ovemen pecies, cosystem pecies, passag en to inte ecies wit rtificial li rrow spi	be aghorn tes located o movement as, finding rred, and trol of prey t corridors and should m functions ge for a crease thin project ghting may ectrum bulbs
considered for fencing anticip fencing 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, pru ultimately prevents wildlife fro numbers, and resistance to in for wildlife and should be main be contained within important be contained within important is 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	ated to be routinely encountered by himum height on the bottom). Pleas s page, which is part of the WIIdlife e/planning/wildlifeguidelines/. Fyour project, please consider the le abitat needs. Loss of this permeabile events wildlife from re-colonizing ar or contributing to ecosystem function twasive species. In many cases, stru- ntained in their natural state. Uplan wildlife movement corridors. In ado roving designs of structures, fences for many of these can be found dlife/planning/wildlifeguidelines/. lighting on wildlife and develop meas g potential impacts to wildlife. Cond activities based on species biology abitat use. Use only the minimum a possible to lower the range of specie	y elk, bighorn sheep the refer to the Depart Planning button at ocal or regional need lity prevents wildlife reas where local exti ons, such as pollinat eams and washes p dis also support a lai dition, maintaining bi s, roadways, and cu asures or alternative: duct wildlife surveys and natural history amount of light need as affected by lighting	or prong iment's F ds of wild from acc rpations ion, seed rovide na rge diver iodiversit lverts to s that can to detern to detern to detern ed for sa	horn (e. encing essing r may har d dispers atural m sity of s y and er promote n be tak nine spe nine if al fety. Na	g., Pror Guidelir egards to esource ve occu sal, com ovemen pecies, cosystem pecies, passag en to inte ecies wit rtificial li rrow spi	be aghorn tes located o movement as, finding rred, and trol of prey t corridors and should m functions ge for a crease thin project ghting may ectrum bulbs

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

Arizona Game and Fish Department Project ID: HGIS-15058	project_report_avilla_rancho_vistoso_west_47349_48834.pdf Review Date: 12/3/2021 10:10:35 AM
insects and pathogens. Precautions should be taken to activities before entering and leaving the site. See the and restricted noxious weeds at <u>https://www.invasives</u> . Society <u>https://aznps.com/invas</u> for recommendations	invasive species, including aquatic and terrestrial plants, animals, o wash and/or decontaminate all equipment utilized in the project Arizona Department of Agriculture website for a list of prohibited <u>peciesinfo.gov/unitedstates/az.shtml</u> and the Arizona Native Plant on how to control. To view a list of documented invasive species or visit iMapInvasives - a national cloud-based application for tracking serve.org/imap/services/page/map.html.
interest, and select "See What's Here" for a list	se the identify/measure tool to draw a polygon around your area of t of reported species. To export the list, you must have an le export tool to draw a boundary and export the records in a csv
environment and the visual resources, maintaining the require a greater area due to in-flight drinking), access	nts should include: incorporation of aspects of the natural water for a variety of species, water surface area (e.g., bats sibility, year-round availability, minimizing potential for water quality atures, regular clean-up of debris, escape ramps, minimizing d.
temperature, and alteration to flow regimes (timing, ma Minimize impacts to springs, in-stream flow, and consi project component, consider timing of the project in or (include spawning seasons), and to reduce spread of e	ish species due to changes in water quality, quantity, chemistry, agnitude, duration, and frequency of floods) should be evaluated. der irrigation improvements to decrease water use. If dredging is a der to minimize impacts to spawning fish and other aquatic species exotic invasive species. We recommend early direct coordination d impact water resources, wetlands, streams, springs, and/or
	conducted to determine if noise-sensitive species occur within the and include conducting project activities outside of breeding
Based on the project type entered, coordination with S (http://azstateparks.com/SHPO/index.html).	state Historic Preservation Office may be required
Trenches should be covered or back-filled as soon as perimeter to deter small mammals and herptefauna (sr	possible. Incorporate escape ramps in ditches or fencing along the nakes, lizards, tortoise) from entering ditches.
regional/comprehensive plans, their regional transport programs. An effective approach to wildlife planning be protection, an assessment of important habitat blocks wildlife components into the community plans and prog- habitat blocks that can be maintained in their area, and or protected. Community planners should also work wi from other communities, to foster coordination and coor wildlife habitat connectivity. The Department's guidelin	In the interval of the interva
Pa	ge 12 of 14

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

Design culverts to minimize impacts to channel geometry, or design and substrates to carry expected discharge using local drainages o barriers to allow movement of amphibians or fish (e.g., eliminate fal corridors often provide important corridors for movement. Overall di for movement of the greatest number and diversity of species expe- consider moisture, light, and noise, while providing clear views at bi- fencing is an important design feature that can be utilized with culve the potential for roadway collisions. Guidelines for culvert designs to page of this application at https://www.azgfd.com/wildlife/planning/v Based on the project type entered, coordination with Arizona Depar (http://www.azdeq.gov/). Based on the project type entered, coordination with Arizona Depar (http://www.usace.army.mil/) Based on the project type entered, coordination with U.S. Army Con (http://www.usace.army.mil/) Based on the project type entered, coordination with County Flood Development plans should provide for open natural space for wildlif wildlife-human interactions through design features. Please contact living with urban wildlife at PEP@azgfd.gov or at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/ and ht Vegetation restoration projects (including treatments of invasive or evaluation plan (identifying environmental conditions necessary to r (species, density, method of establishment), a short and long-term guidelines to address needs for replacement vegetation. The Department requests further coordination to provide projec contact Project Evaluation Program directly at PEP@azgfd.gov Project Location and/or Species Recommendations: HDMS records indicate that one or more native plants listed on the been documented within the vicinity of your project area. Please co Arizona Department of Agriculture 1888 W Adams St. Phoensi, AZ 85007 Phone: 602.542.4373 https://agriculture.az.gov/sites/default/files/Native%20Plant%20Rule page 44	appropriate size as templates. Reduce/minimize s). Also for terrestrial wildlife, washes and stream vert width, height, and length should be optimized ted to utilize the passage. Culvert designs should th ends to maximize utilization. For many species, ts to funnel wildlife into these areas and minimize facilitate wildlife passage can be found on the home Idlifeguidelines/. ment of Environmental Quality may be required ment of Water Resources may be required to of Engineers may be required. control district(s) may be required. e movement, while also minimizing the potential for Project Evaluation Program for more information on ps://www.azgfd.com/Wildlife/LivingWith. xotic species) should have a completed site- e-establish native vegetation), a revegetation plan
(http://www.azdeq.gov/). Based on the project type entered, coordination with Arizona Depar (https://new.azwater.gov/). Based on the project type entered, coordination with U.S. Army Cord (http://www.usace.army.mil/) Based on the project type entered, coordination with County Flood Development plans should provide for open natural space for wildlife indigenetic type and the project type entered, coordination with County Flood Development plans should provide for open natural space for wildlife indigenetic type and the project type entered, coordination with County Flood Development plans should provide for open natural space for wildlife indigenetic type and the project indigenetic type are contact living with urban wildlife at PEP@azgfd.gov or at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/ and ht Vegetation restoration projects (including treatments of invasive or evaluation plan (identifying environmental conditions necessary to respect to address needs for replacement vegetation. The Department requests further coordination to provide project contact Project Evaluation Program directly at PEP@azgfd.gov Project Location and/or Species Recommendations: HDMS records indicate that one or more native plants listed on the been documented within the vicinity of your project area. Please contarizes and partment of Agriculture 1688 W Adams St. Phoenix, AZ 85007 Phone: 602.542.4373 https://agriculture.az.gov/sites/default/files/Native%20Plant%20Rule	ment of Water Resources may be required as of Engineers may be required control district(s) may be required. a movement, while also minimizing the potential for Project Evaluation Program for more information on ps://www.azgfd.com/Wildlife/LivingWith. xotic species) should have a completed site- e-establish native vegetation), a revegetation plan
(https://new.azwater.gov/). Based on the project type entered, coordination with U.S. Army Cor (http://www.usace.army.mil/) Based on the project type entered, coordination with County Flood Development plans should provide for open natural space for wildlif wildlife-human interactions through design features. Please contact living with urban wildlife at PEP@azgfd.gov or at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/ and ht Vegetation restoration projects (including treatments of invasive or evaluation plan (identifying environmental conditions necessary to r (species, density, method of establishment), a short and long-term guidelines to address needs for replacement vegetation. The Department requests further coordination to provide projec contact Project Evaluation Program directly at PEP@azgfd.gov Project Location and/or Species Recommendations: HDMS records indicate that one or more native plants listed on the been documented within the vicinity of your project area. Please co Arizona Department of Agriculture 1688 W Adams St. Phoenix, AZ 85007 Phone: 602.542.4373 https://agriculture.az.gov/sites/default/files/Native%20Plant%20Rule	as of Engineers may be required control district(s) may be required. The movement, while also minimizing the potential for Project Evaluation Program for more information on <u>DS://www.azgfd.com/Wildlife/LivingWith</u> . (xotic species) should have a completed site- e-establish native vegetation), a revegetation plan
(http://www.usace.army.mil/) Based on the project type entered, coordination with County Flood Development plans should provide for open natural space for wildlif wildlife-human interactions through design features. Please contact living with urban wildlife at <u>PEP@azgfd.gov</u> or at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/ and ht Vegetation restoration projects (including treatments of invasive or evaluation plan (identifying environmental conditions necessary to r (species, density, method of establishment), a short and long-term guidelines to address needs for replacement vegetation. The Department requests further coordination to provide projec contact Project Evaluation Program directly at PEP@azgfd.gov Project Location and/or Species Recommendations: HDMS records indicate that one or more native plants listed on the been documented within the vicinity of your project area. Please co Arizona Department of Agriculture 1688 W Adams St. Phoenix, AZ 85007 Phone: 602.542.4373 https://agriculture.az.gov/sites/default/files/Native%20Plant%20Rute	control district(s) may be required. movement, while also minimizing the potential for Project Evaluation Program for more information on os://www.azgfd.com/Wildlife/LivingWith. xotic species) should have a completed site- e-establish native vegetation), a revegetation plan
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Page 13 of 14	

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

Project ID: HGIS-15058	t project_report_	avilla_rancho_vistoso_west_47349_48834.pd Review Date: 12/3/2021 10:10:35 Al		
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 ngered 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	5 , –			
		Fax: 928-556-2121		
This review has identified riparian areas within the vicinity of your project. During the planning stage of your project, avoid, minimize, or mitigate any potential impacts to riparian areas identified in this report. Riparian areas play an important role in maintaining the functional integrity of the landscape, primarily by acting as natural drainages that conve water through an area, thereby reducing flood events. In addition, riparian areas provide important movement corridors and habitat for fish and wildlife. Riparian areas are channels that contain water year-round or at least part of the year. It may contain or convey water following rain events. All types of riparian areas offer vital habitats, resources, and movement corridors for wildlife. The Pinal County Comprehensive Plan (i.e. policies 6.1.2.1 and 7.1.2.4). Open Space and Traits Master Plan, Drainage Ordinanco and Drainage Design Manual all identify riparian area considerations, guidance, and policies. Guidelines to avoid, minimize, or mitigate impacts to riparian habitat can be found at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/. Based on the project type entered, further consultation with the Arizona Game and Fish Department and Pinal County may be warranted.				
HDMS records indicate that Sonora	ment and Pinal County may be warrant an Desert Tortoise have been docume	ed. ented within the vicinity of your project area.		
HDMS records indicate that Sonora	ment and Pinal County may be warrant an Desert Tortoise have been docume	ed. ented within the vicinity of your project area.		

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-H-2: Viewshed Photographs.

1. Viewshed Analysis

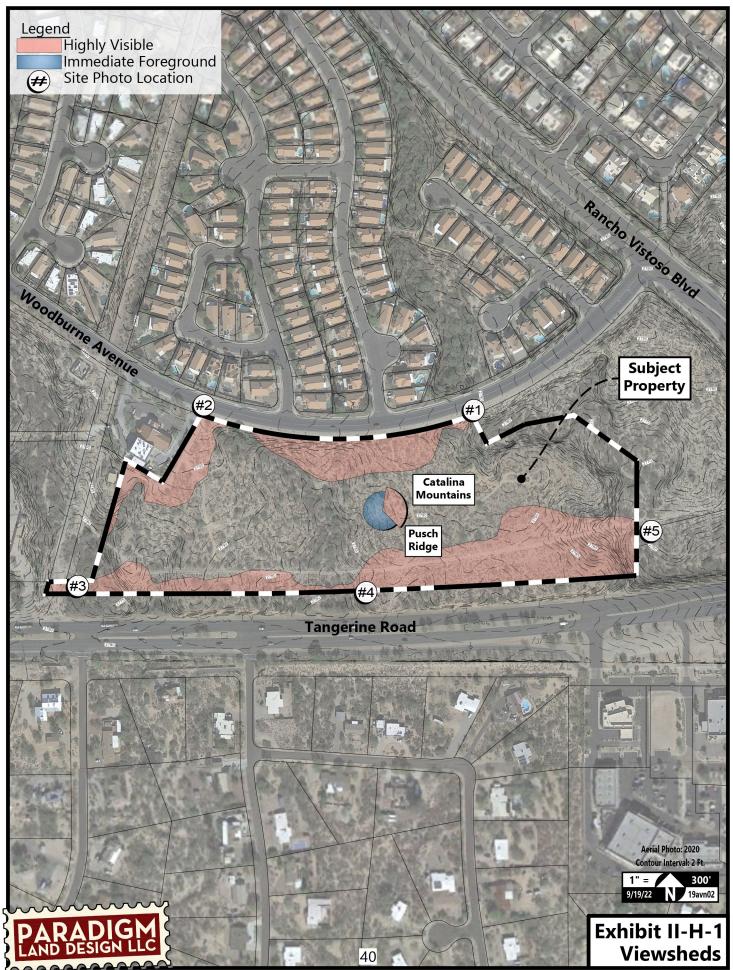
The subject property is within the Tangerine Road Corridor Overlay District but is exempt from some of the district's requirements because it is within the Rancho Vistoso PAD. No significant scenic views of the Tortolita, Santa Catalina, or other mountains exist from Tangerine Road. See Appendix 'B':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

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.

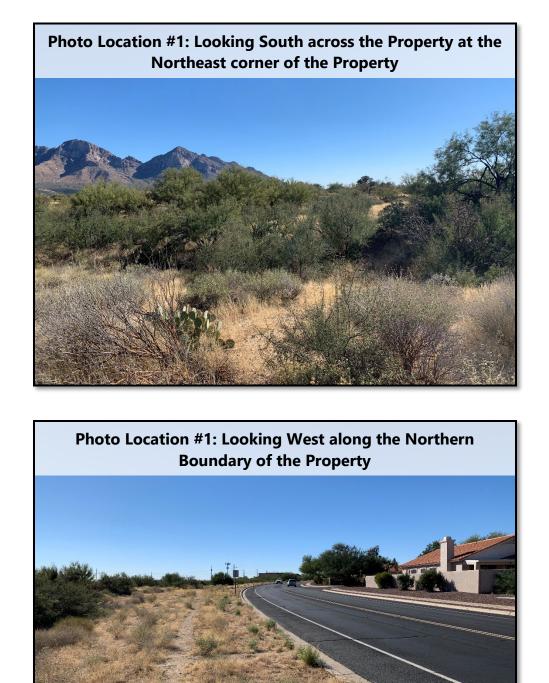
3. Core Character Vegetation (CCV)

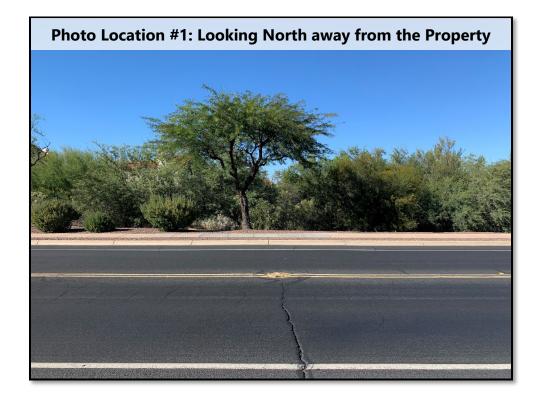
The property is more than 80 feet from the edge of Tangerine Road pavement, with the intervening area containing a typical density of native vegetation. As such, no onsite vegetation provides any meaningful visual screening from Tangerine Road. Additionally, the property owner has acquired the strip of surplus ADOT right-of-way that abuts the southern edge of the Property, and that strip has now been incorporated into the Property for the purposes of this PAD amendment application. That strip of land, along with some of the land north of it that is not proposed for development, will satisfy the 50-foot CCV, 40-foot landscape bufferyard, and building setback requirements.

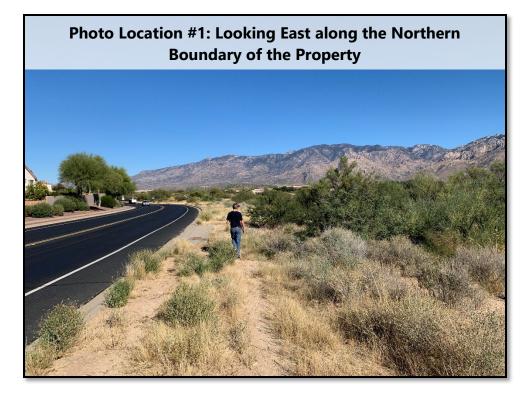


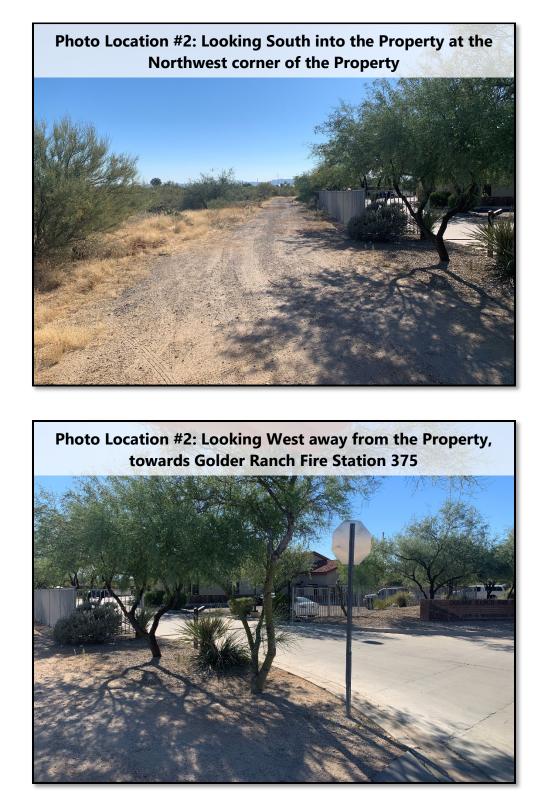
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Exhibit II-H-2: Viewshed Photographs

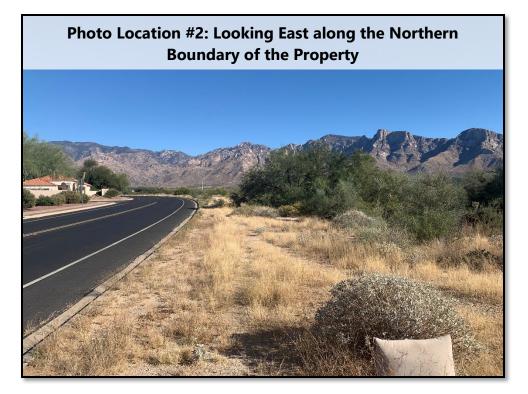










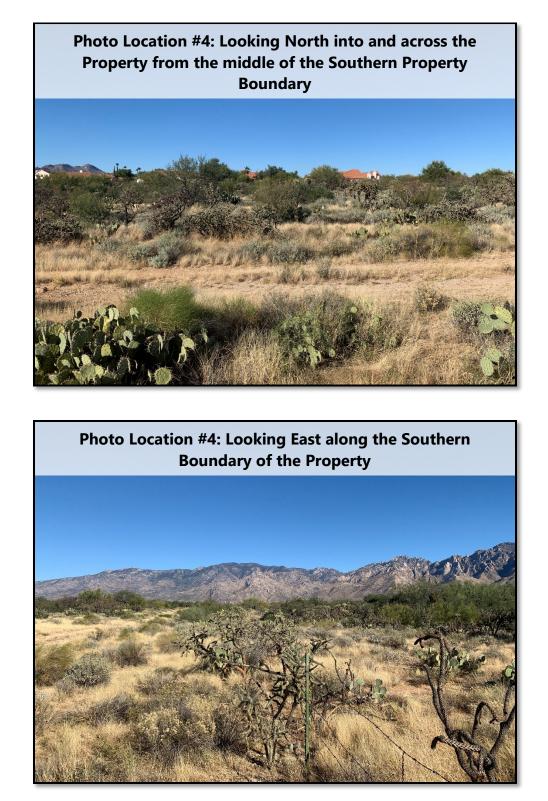


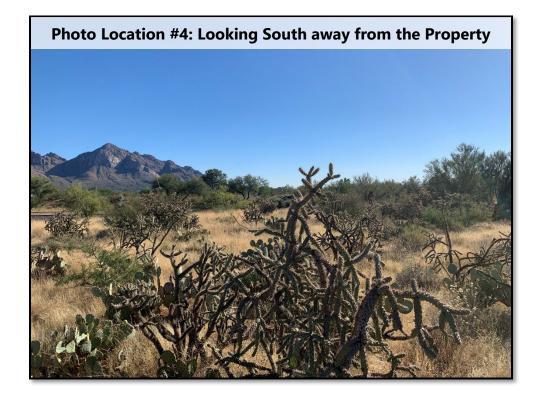




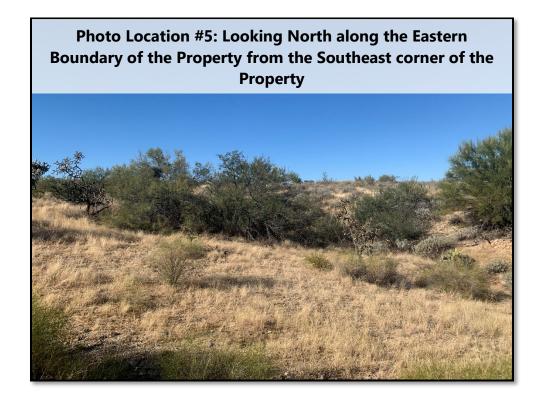


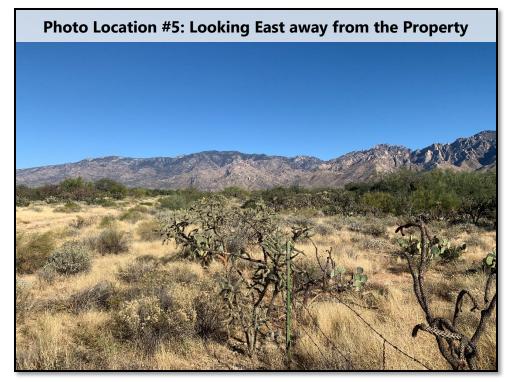




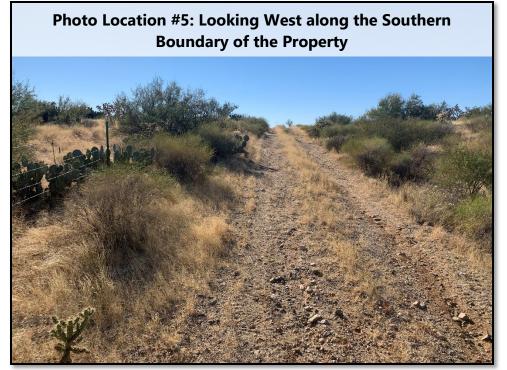


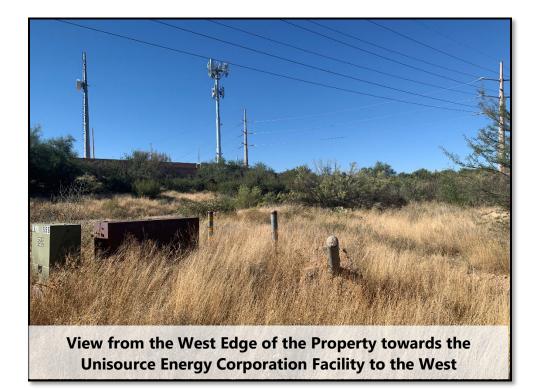


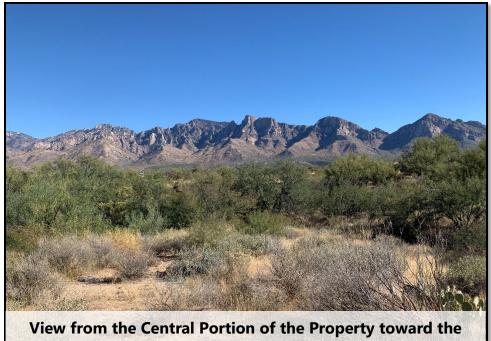












Catalina Mountains to the Southeast

I. TRAFFIC

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

This development is proposing to construct a new public loop road (80-foot right-of-way) that connects Tangerine Road to Rancho Vistoso Boulevard. The primary entry to the site will come from this newly constructed roadway. Woodburne Avenue is proposed to be slightly realigned to provide safer traffic flow in the area. Lastly, the existing median break at Rancho Vistoso Blvd. and Woodburne Ave. is proposed to be closed.



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.

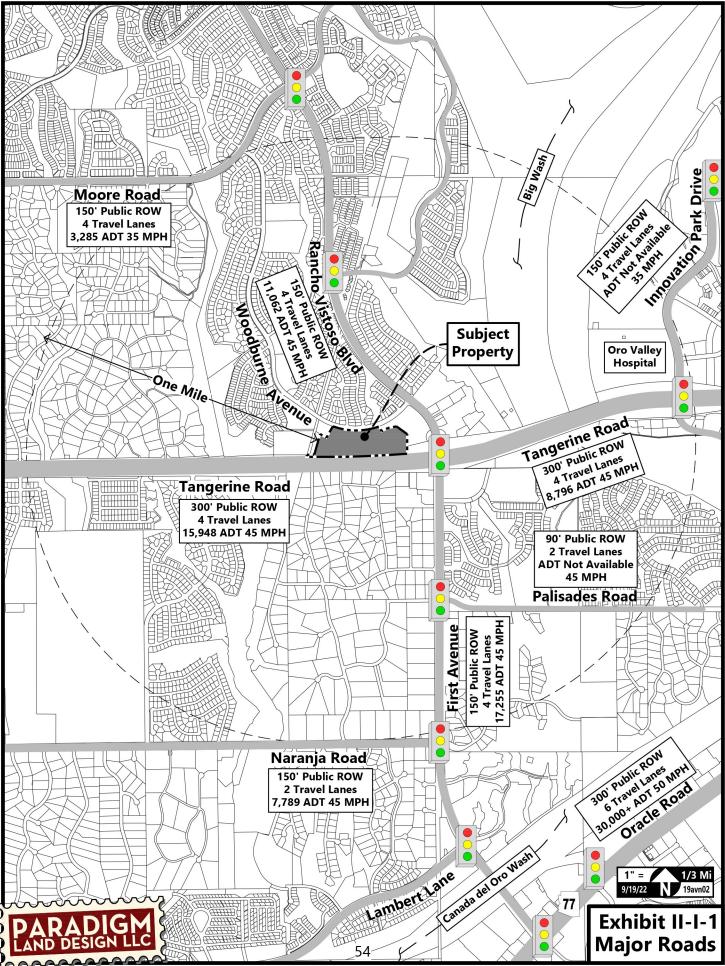
Roadway Name	Existing R.O.W.	Ultimate R.O.W.	Travel Lanes	Capacity	Theo. Design Speed	ADT (PAG)	Condition	Scheduled Improvements
Rancho Vistoso Blvd. (Public)	150′	150' Continuous	4	40,000	55	11,062	Paved	None Scheduled
Tangerine Road (Public)	300′	300' Continuous	4	40,000	55	15,948	Paved	None Scheduled
First Ave. (Public)	150′	150' Continuous	4	40,000	55	17,255	Paved	None Scheduled
Naranja Road (Public)	150′	150' Continuous	2	40,000	55	7,789	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.

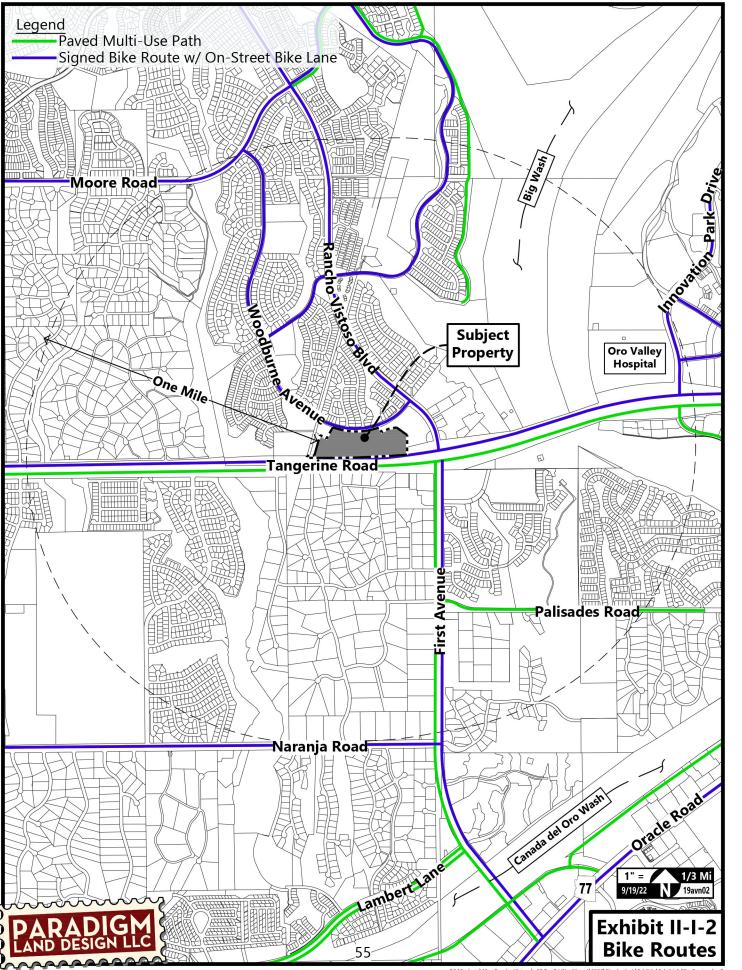
Several arterial intersections that will carry traffic generated by this development exist within one mile of the Property. These include Rancho Vistoso Blvd. / First Avenue & Tangerine Road, Tangerine Road & Innovation Park Drive, First Avenue & Palisades Road, and First Avenue & Naranja Road. A new intersection is proposed where the proposed loop road will intersection Tangerine Road. The existing intersection of Rancho Vistoso Blvd. and the northern Safeway shopping center access drive will be the terminus of the proposed loop road and 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-I-2: Bike Routes.



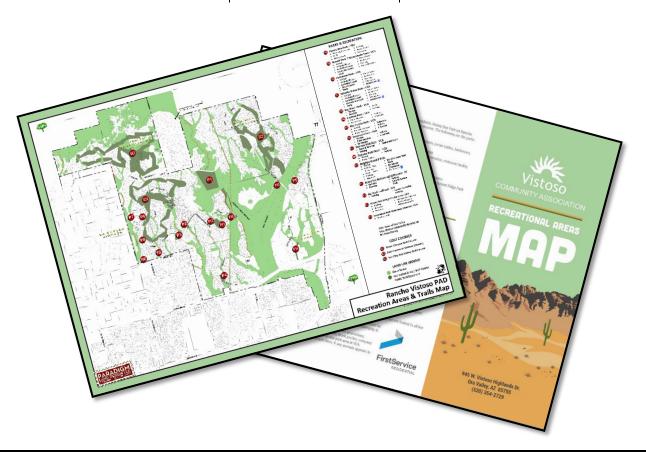
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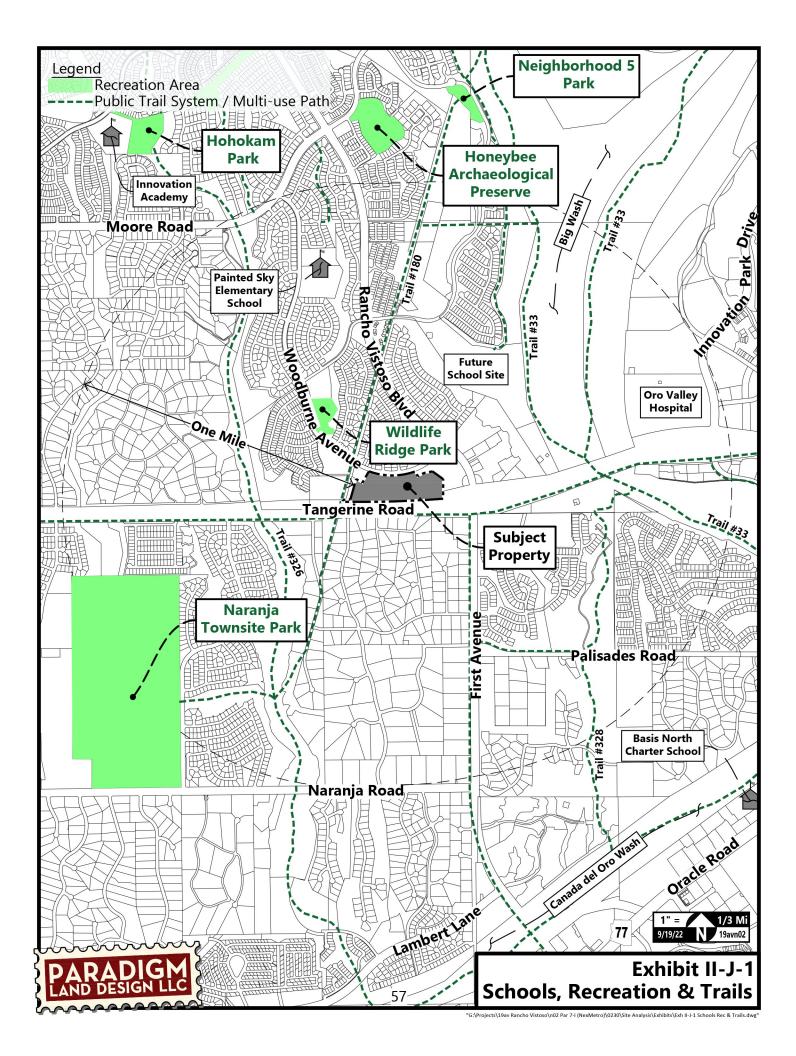


J. PARKS, RECREATION AREAS, AND TRAILS

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.

Surrounding 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

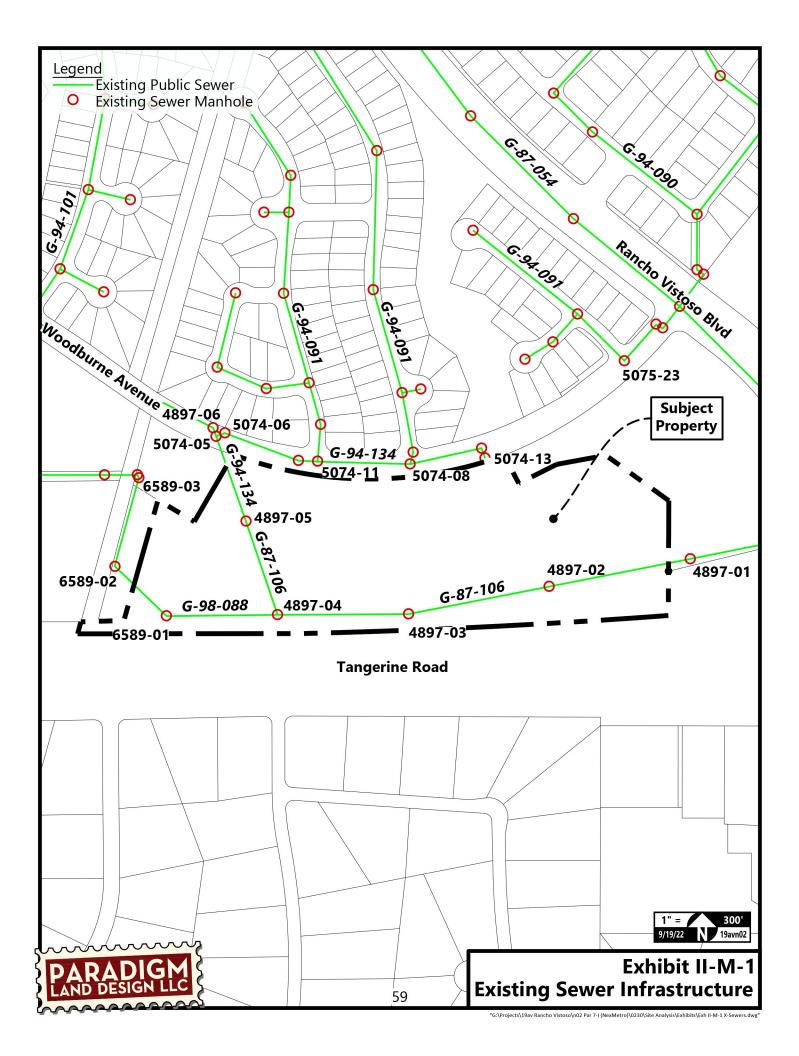
Students within this development will attend the schools in the Amphitheater Unified School District, private schools, and charter schools. The only school within one mile of the site is the Painted Sky Elementary School. It is approximately three-quarters of a mile to the north and has capacity for 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-J-1: Schools, Recreation & Trails.

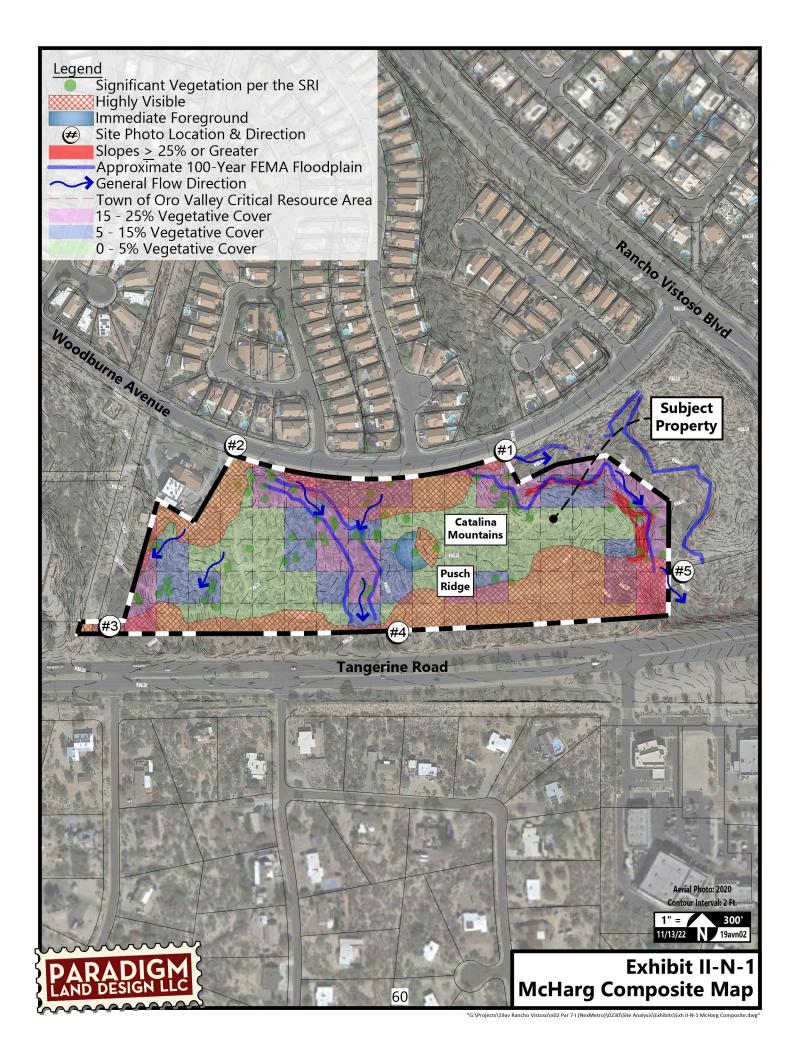
L. WATER SERVICE

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. There is a 12" PVC water line that exists within the Woodburne Avenue R.O.W. There is also a 12" PVC water line within the utility easement that runs along the Property's western boundary.

M. SEWER SERVICE

An existing 12" sewer line (G-87-106) and 35-foot sewer easement cut diagonally across the property from the Golder Ranch Fire Station towards the southern boundary. It then turns east and runs along most of the southern boundary of the site where it exits at the southeast corner of the property. This existing sewer line serves the single-family residential neighborhoods to the north of the project site. A second 30-foot sewer easement and 12" sewer line (G-98-088) cuts across the southwestern corner of the property and connects into sewer line G-87-106 at manhole #4897-04. This existing sewer line serves the single-family residential neighborhood to the west of the Property. Capacity is currently available for this project in the public sewer G-87-106, downstream from manhole 4897-05. See Exhibit II-M-1: Existing Sewer 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 approximately 16.0-acre portion of the Property that is zoned C-1 Community Commercial in the Rancho Vistoso PAD to High-Density Residential (HDR) in the PAD. A small sliver of PAD Open Space in the southwest corner of the property will be retained as open space, as will the open space associated with the wash forming the eastern boundary of the site (except as needed for the roadway crossing). This will allow for the development of the western portion of Avilla Rancho Vistoso, a neighborhood of single-family rental casitas just north of Tangerine Road, west of Rancho Vistoso Blvd, and south of Woodburne Avenue. The western



portion of Avilla Rancho Vistoso will contain approximately 119, 1-story, predominately detached residences that will provide an appropriate transition between Tangerine Road to the south and the existing residential developments 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

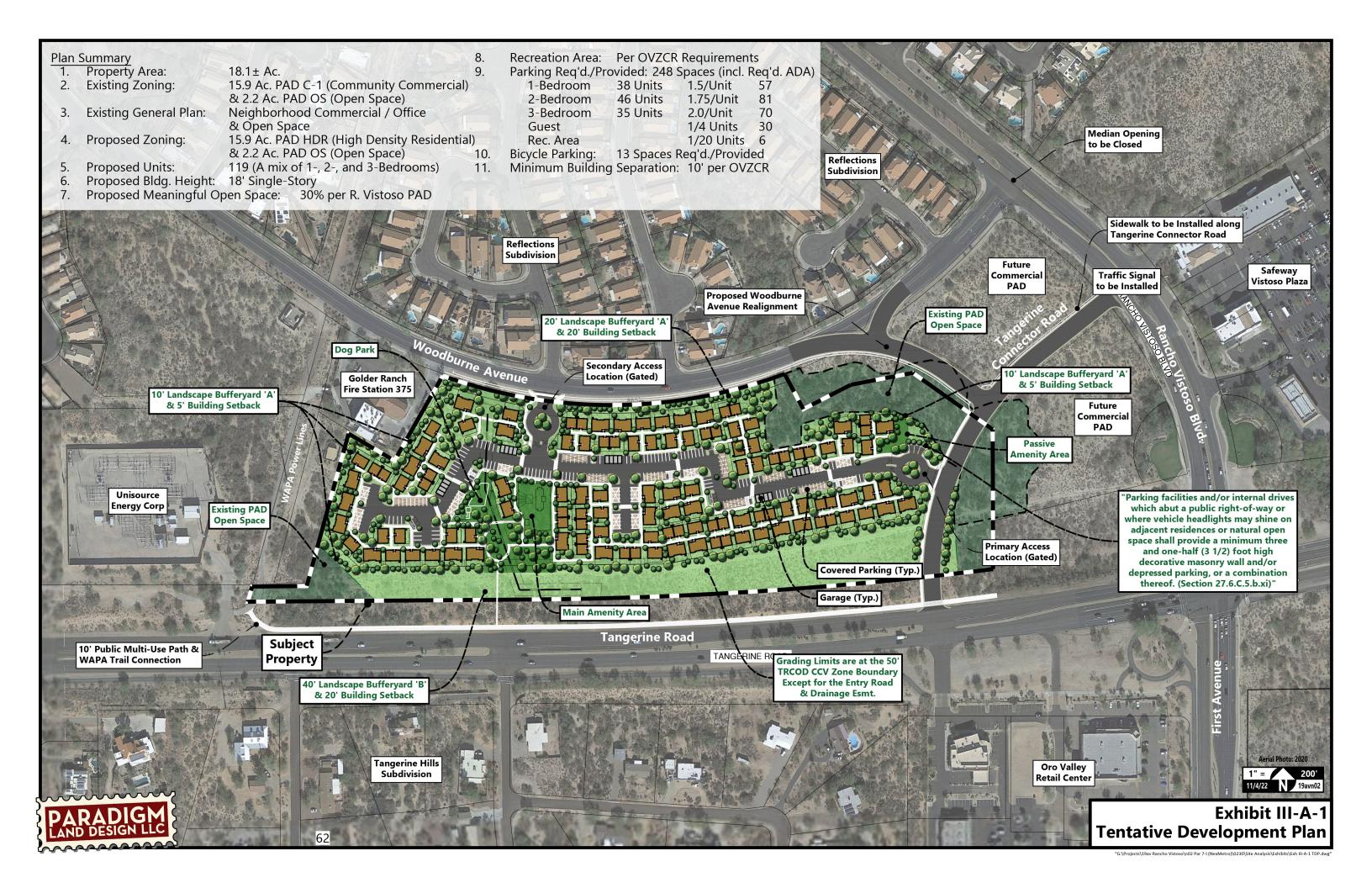
community recreation area will include a pool, outdoor kitchen, green space, shaded seating areas, and a small dog park. Exhibit III-A-1: Tentative Development Plan

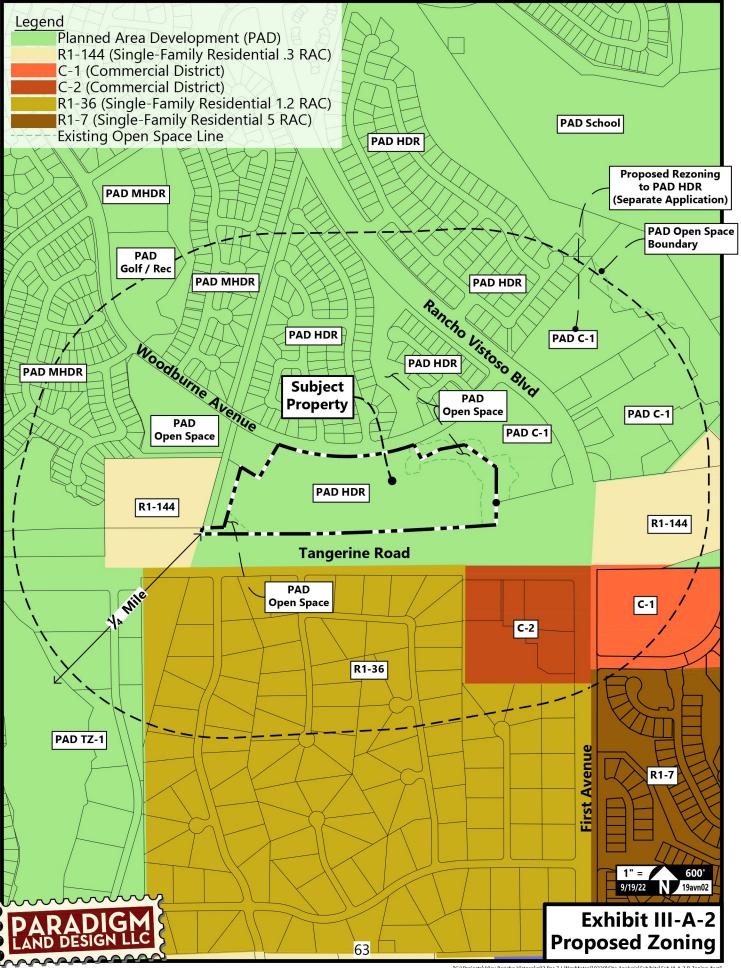
2. General Plan Conformance

Avilla Rancho Vistoso West has a current land use designations of Neighborhood Commercial / Office and Open Space, and it 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. Exhibit II-A-3: Existing General Plan.

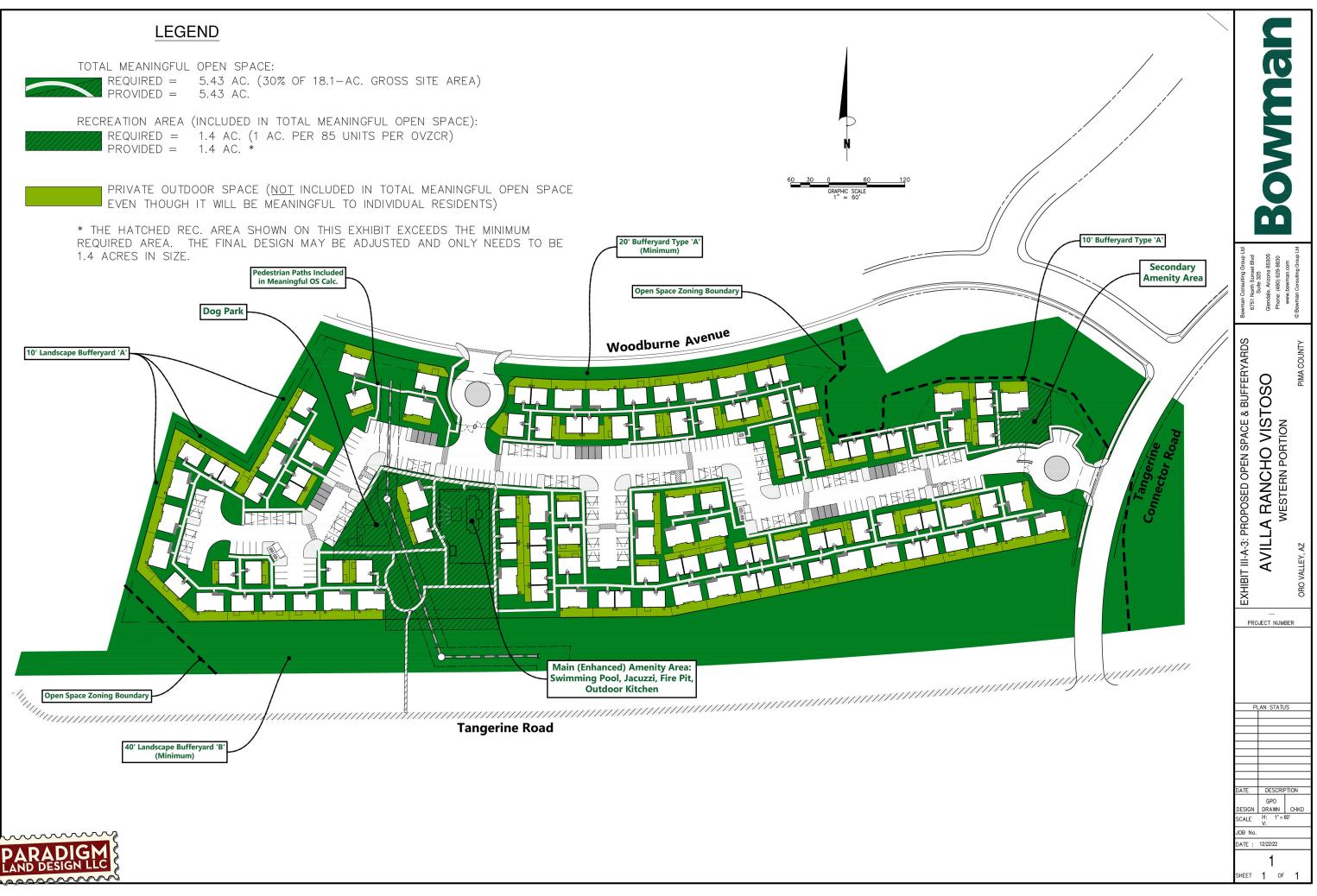
3. Flexible Design Options / Conservation Subdivision Design

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





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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 Tangerine Road to the south and the existing homes to the north. Avilla Rancho Vistoso West will be much more compatible with the existing homes to the north than would a commercial development according to the Property's existing zoning. 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 does not apply to this parcel because over 25% of Rancho Vistoso has been developed with infrastructure or finished building pads. 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 relatively flat character of the subject property and the lack of 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.

2. Slope Encroachment

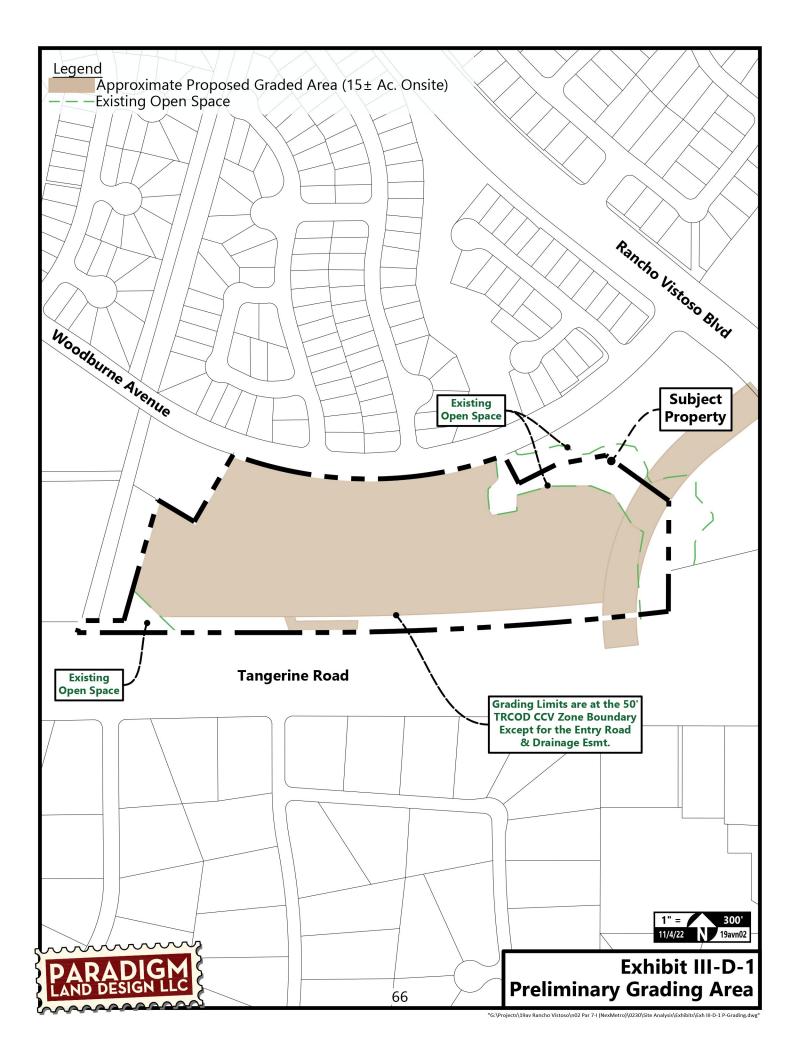
Minimal encroachment will occur in areas of the site that contain regulated 25% or greater slopes and will be limited to the loop road wash crossing.

3. Hillside Conservation Areas

The Property is subject to the hillside district per Section 1.3(J)(1) the Rancho Vistoso PAD. The only slopes that meet the criteria for needing a trade or being preserved meet the criteria onsite are small areas along the eastern boundary of the Property, some of which will be disturbed for roadway construction as permitted by the PAD.

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. A small amount of zoned open space will be disturbed for the roadway crossing toward Rancho Vistoso Blvd. All disturbed areas not developed will be revegetated. The total amount of expected grading is approximately 15 acres.



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

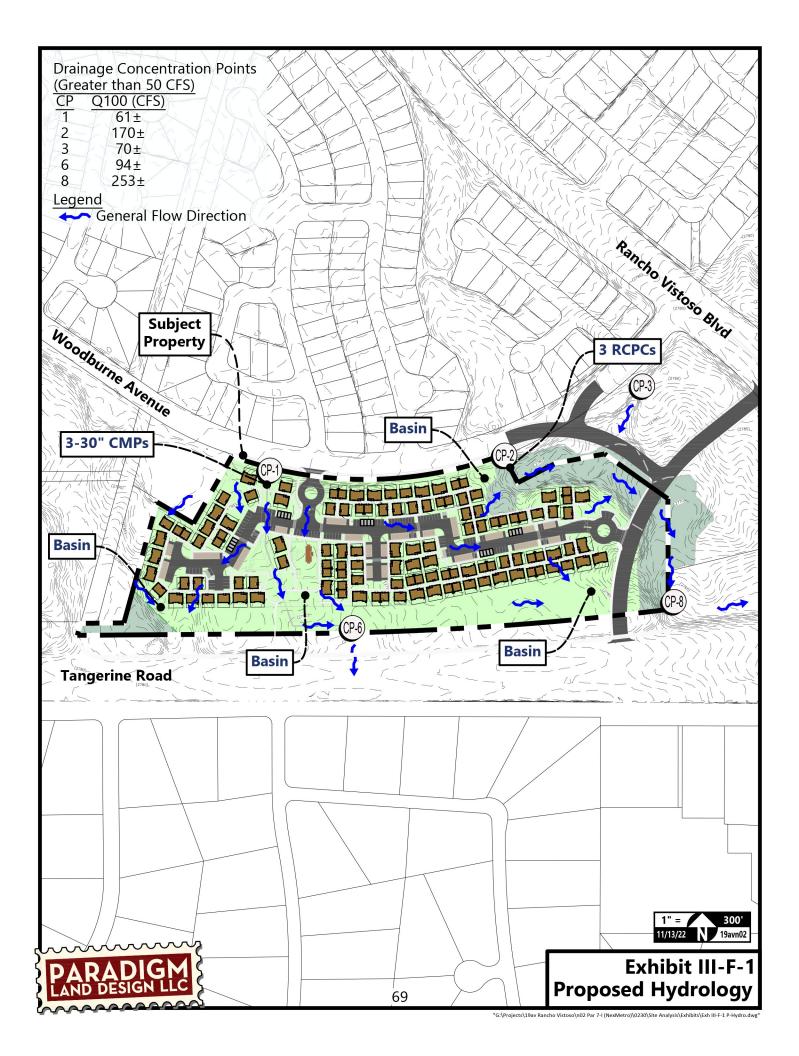
The Existing offsite drainage flows CP 1 will be routed through a flow storage drainage facility with a drainage facility conveying east the outflow along the northerly property line onto the easterly wash without any significant impact to the site or existing floodplain. The Existing offsite drainage flows (CP's 2 & 3) will be routed across the westerly and easterly portions of the development without any significant impact to the Project or existing floodplain. Proposed CP 5 will be routed onto Proposed Watershed 6. In order to prevent increases to pre-development flow volumes and velocities, the stormwater runoff created by the proposed impervious surfaces will be collected in flow storage basins with approximated volumetric flow of 2.1 acre-feet. The proposed design flows will then be metered into the existing CP's 4, 6 & 8. The attenuated flows will not result in impacts to downstream properties; moreover, at least a 10% reduction of the onsite peak flows are expected after the flow attenuation. Erosion protection will be installed along the east edge of the proposed site improvements where necessary to mitigate the erosion hazard area associated with the existing wash. The Final Site Plan package and Drainage Report will include a recommended design cross-section for the erosion protection, which is expected to be mostly subsurface. This project will result in modification of the regulatory floodplain limits. A Floodplain Use Permit will be required.

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.



G. VEGETATION

There are several trees onsite that meet the Town's definition of significant vegetation. Other existing native vegetation will be inventoried, and viable specimens will be transplanted or mitigated for per the Town's native plant preservation ordinance. Significant vegetation that meets transplant requirements has 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. Natural open space is mainly provided along the wash that forms the project's eastern boundary, and at the southwest corner of the Property. Revegetated open space is primarily located in the recreation areas and in the drainagerelated 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 to develop a sustainable and environmentally sensitive residential community. Additionally, the property owner has acquired the strip of surplus ADOT right-of-way that abuts the southern edge of the Property, and that strip has now been incorporated into the Property for the purposes of this PAD amendment application. That strip of land, along with some of the land north of it that is not proposed for development, will satisfy the 50-foot Tangerine Road Corridor Overlay District's Corridor Character Vegetation preservation, 40-foot landscape bufferyard, and building setback requirements.

H. WILDLIFE

Being sandwiched between existing roadways and developments, this property does not have any wildlife corridors that traverse the site. Even so, the wide utility easement along the southern edge of the Property does provide an avenue for wildlife to access the WAPA easement. Major wildlife corridors exist within the Big Wash which is approximately a half mile to the 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 is exempt from some of the Tangerine

Road Corridor Overlay requirements because it is in the Rancho Vistoso PAD.

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 proposed loop road connecting Tangerine Road to Rancho Vistoso Blvd. Vehicular access is also being proposed onto Woodburne Avenue to the north of the project, although this access point is not expected to receive heavy use because the eastern access route is much more convenient. Site access is proposed at existing intersections where the impact to the existing street system will be minimized. It is important to remember that development under the Property's existing commercial zoning would probably feature more access points.

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 7.05 trips per rental, the approximately 119 rental homes proposed will generate approximately 839 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 approximately 35,000 – 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.

Woodburne Avenue

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 main ingress/egress point into this project will come from the newly constructed loop road and will allow for full traffic movements. A secondary access point is proposed onto Woodburne Avenue and will allow for emergency access only. Vegetation adjacent to the project's ingress/egress points 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

The only public rights-of-way being proposed are the loop road connecting Tangerine Road to Rancho Vistoso Blvd. and the realigned portion of Woodburne Ave. Both will be 80 feet wide and will utilize Oro Valley's Urban Collector street cross-section. 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 Subdivision Street Standards.

3. Proposed Pedestrian / Bicycle Circulation

This development will make pedestrian and bicycle connections to Tangerine Road and to Rancho Vistoso Blvd. via Woodburne Avenue and the new loop road. Tangerine Road has a striped bike lane that runs from Oracle Road to Interstate-10. Rancho Vistoso Blvd. 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. Offsite Trail Access

The WAPA multi-use path and trail is directly west of the Property. This project will provide pedestrian connections to this trail system which connects to the greater Oro Valley trail system.

2. Open Space Ownership

The proposed recreation areas and other open spaces of the Avilla Rancho Vistoso West will be owned and maintained by the property owner. The main recreation area for this site will be centrally

located and will include a variety of amenities, including a pool, outdoor kitchen, green space, shaded seating areas, and a small dog park.



L. SCHOOLS

1. Student Generation

This proposed development is expected by Amphitheater School District to generate approximately 25 elementary students, 26 middle school students, and 16 high school students (using the accepted standard student multiplier of 0.2075 multifamily elementary students per household, 0.2197 multifamily middle school students per household, and 0.1282 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-E-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. Jaeger, 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	NIC MAIL
December 7, 2021	
Clay Goodwin Paradigm Land Design, LLC Avilla Rancho Vistoso West claygoodwin816@outlook.co	Project
	erine Road/Rancho Vistoso Blvd. Planned Area Development el number 219-54-002L
Dear Mr. Goodwin:	
I am responding to your requ your proposed development.	est for information regarding the capacity of Amphitheater schools impacted by
	Itipliers developed by the U.S. Department of Census, Bureau of Census, and strict's school organizational patterns, we project the following student s project when built:
<u>Academic Le</u> Elementary Middle High School	vel <u>125 Single family Units</u> 26 28 16
	to obtain these projections are 0.2075 multifamily elementary students per y middle school students per household, and 0.1282 multifamily high school
Amphitheater Middle Copper Creek Elementary • Do Mesa Verde Elementary • Nash Elementary • Pa	hitheater 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 naldson Elementary • Harelson Elementary • Holaway Elementary • Innovation Academy • Keeling Elementary nted Sky Elementary • Prince Elementary • Rio Vista Elementary • Walker Elementary • Rillito Center • Amphi Academy Online riminate on the basis of race, color, religion/religious beliefs, gender, sex, age, national origin, sexual orientation, creed, citizenship status, marital
status, political beliefs/affiliation, disability, home la groups. Inquiries regarding the District's non-c	immine on the basis of nace, color, reingion/reingious genesis, generic, sex, age, national origin, sexual orientation, received cutzensing status, maintai gnagae, family, social or cultural background in its programs or activities and provides equal access to the Boy Scouts and other designated youth iscrimination policies are handled at 701 W. Wetmore Road, Tueson, Arizona 85705 by David Rucker, Equity & Safety Compliance Officer 5164, <u>drucker@amphi.com</u> , or Kristin McGraw, Executive Director of Student Services, (520) 696-5230, <u>kmcgraw@amphi.com</u> .

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

		Page 2		
available at		note that these schools w	below, along with the physical capa ill also be impacted by other develo 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 282 542 919	
If I can prov	vide any additional information,	please feel free to conta	ct me.	
Sincerely,				
Kriste	Magoziasz			
Kristin Mag	dziasz ive Assistant to the Legal Depar	rtment		

M. WATER

1. Water Demand

A good estimate for domestic water usage is 230 gallons per day per residence dry weather flow. With approximately 119 residences being proposed in this development, the total domestic water use is projected at 27,370 gallons per day. In contrast, under the Property's existing commercial zoning a shopping center developed at a 0.3 Floor Area Ratio (~588K SF Leasable Floor Space) would typically use roughly 28,227 gallons per day based on an estimated 0.16 gallons per square foot per day. This water use rate is based on data from Action Manufacturing (See Bibliography).

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 Woodburne Avenue 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-87-106, downstream from manhole 4897-05. See Exhibit III-N-1: Sewer Capacity Letter.

Exhibit III-N-1: Sewer Capacity Letter

ION E PH: (520) 724-6500 FAX: (520) 724-9635
ION E PH: (520) 724-6500 207 FAX: (520) 724-9635
207 FAX: (520) 724-9635
21WC00354 Type I
21WC00354 Type I
21WC00354 Type I
s Water Reclamation Facility via the
public sewer G-87-106, downstream
r conveyance capacity for this project. is an analysis of the system as of this y Response.
us at (520) 724-6488.

O. BUFFERYARDS

1. Mitigation

This project does not have any adjacent residential neighbors. The adjacent parcels are designated for commercial development or are already occupied by a fire station and utilities. The nearest residential neighbors are across Woodburne Avenue.

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.

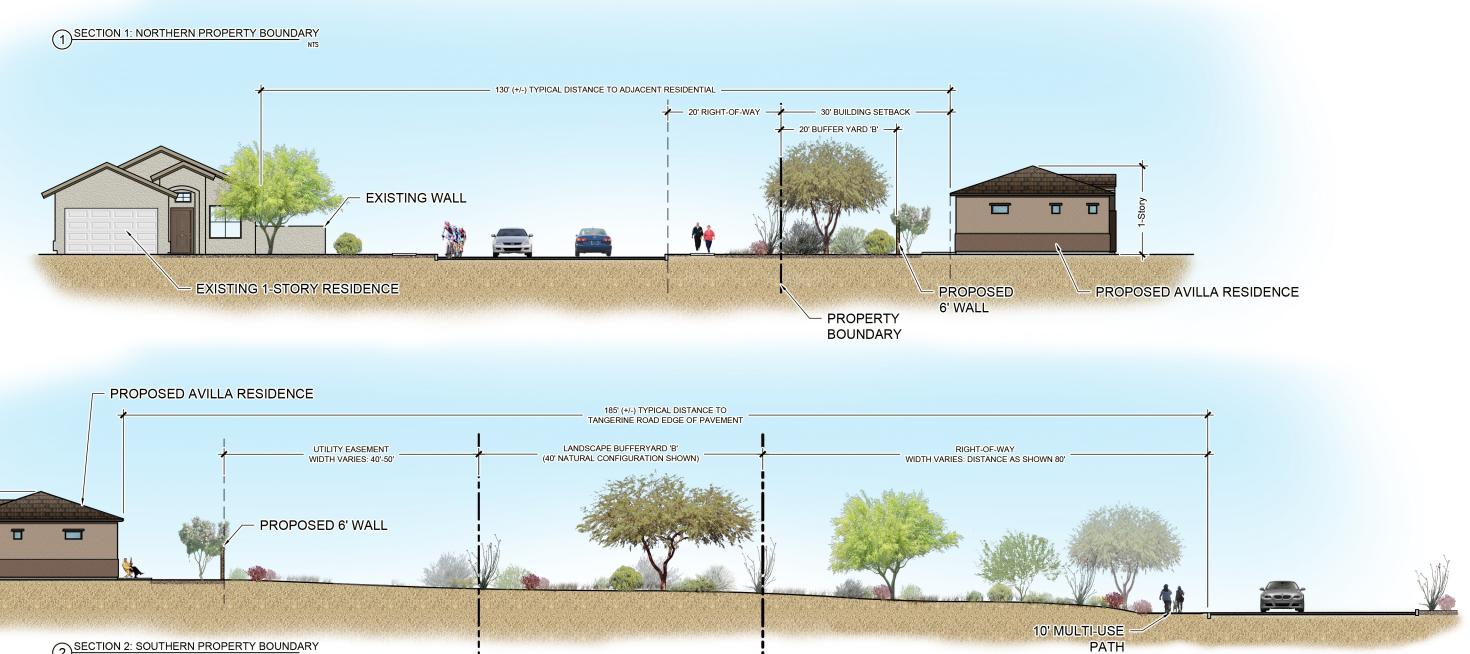
Even so, it is also important to remember that this Property is currently zoned for commercial development, which would undoubtedly have a significant impact on nearby neighbors.

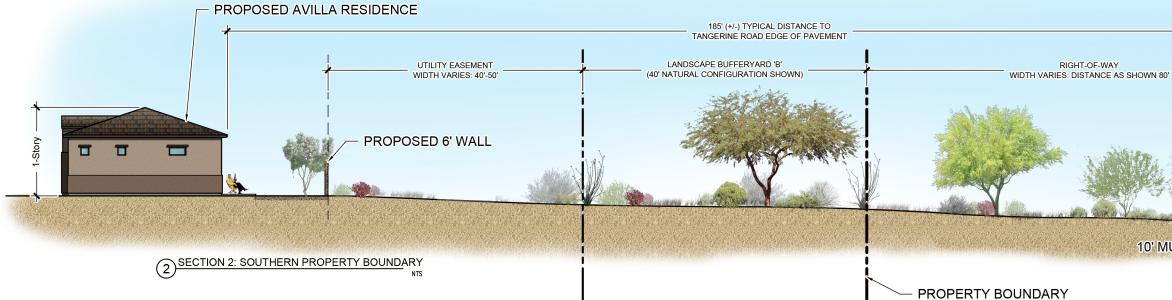
Adjacent Use	Bufferyard Type & Width
North – Woodburne Ave.	Type 'A' / 20 Feet
East – Open Space	Type 'A' / 10 Feet
South – Tangerine Road	Type 'B' / 40 Feet *
West – Utility Corridor, Open	
Space, and Golder Ranch Fire	Type 'A' / 10 Feet
Station	

* Based on the acquisition of the ADOT surplus land.

See Exhibit III-O-1: Bufferyard Cross-Sections and Exhibit III-A-3: Proposed Open Space & Bufferyards.

Exhibit III-O-1: Bufferyard Cross-Sections





Avilla Rancho Vistoso



APPENDIX A – SITE RESOURCE INVENTORY

PROJECT OVERVIEW

1. Detached rental casitas are 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), canyon bursage (Ambrosia ambrosioides) 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, fulgida, arbuscula and leptocaulis) and prickly pear species are the most common cacti on site. Additional cacti / succulents include barrel (*Ferocactus wislizeni*), hedgehog (*Echinocereus sp.*), pincushion (*Mammillaria sp.*). Saguaro (Carnegiea gigantea) cacti are rare, four total found on site. 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).
- Open Space: The wash that crosses the eastern portion of the site appears as Critical Resource Area per the ESL. The area is defined by denser vegetation and differing plant species than the surroundings. Species include velvet mesquite, catclaw and whitethorn acacia, hackberry and graythorn. This vegetation contrasts with the surrounding bursage, cholla and foothill palo verde plant community. The density of the wash area is notable, but there is not a high number of significant (as defined by height and caliper) trees.

GENERAL NOTES

- 1. The gross area of development is 18.12 +/- acres
- 2. Total acres of graded area: 14.84 +/- acres
- 3. Total acres of undisturbed area: 3.28 +/- acres
- 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)
- Any spaded or boxed tree transplanted on site that dies due to neglect or lack of maintenance shall be replaced with the same size and species of the original salvaged tree, as required by the salvage plan.
- 8. No salvage of plants regulated by the Endangered Species Act and/or the Arizona Native Plant Law may occur without the issuance of the appropriate permit by the State Department of Agriculture.
- 9. Salvage of operations shall not commence until the Zoning inspector has performed an inspection and given approval to be salvaged.
- 10. Temporary nursery shall be in conformance with Section 27.6.B.4.j.
- 11. Mitigation of Significant Vegetation shall be in accordance with Table 27-1 Mitigation of Significant Vegetation.
- 12. Any plant that meets the salvage criteria in Section 27.6.B.4 shall be preserved in place or transplanted on-site. Any plants that meet the salvage criteria that are destroyed shall be replaced on a one-to-one ratio of the same species and size as that destroyed. Five understory plants from the supplemental Arizona Department of Water Quality native plant list will be planted for every mitigated tree.
- 13. The limits of grading shall be staked in the field, in accordance with Section 27.6. B.7.c.ii. Disturbance outside the approved grading limits shall not be permitted.
- 14. 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.
- 15. Plant locations were determined with the assistance of a global positioning system. This system is accurate to within approximately one foot.

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
- 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. The site has a high presence of invasive grass species. These include:

- a. Buffelgrass (*Pennisetum ciliare*), an invasive grass species included on the Oro Valley Prohibited Plant List (Addendum E).
- b. Fountain Grass (*Pennisetum setaceum*), an invasive grass species included on the Oro Valley Prohibited Plant List (Addendum E).
- c. Soft Feather Pappusgrass (*Enneapogon cenchroides*) is native to Africa. Like buffelgrass, it displaces native vegetation and is a fire fuel source.
- d. Stinkgrass (*Eragrostis cilianensis*) is native to Africa. Like buffelgrass, it displaces native vegetation and is a fire fuel source.
- 2. Buffelgrass and Fountain grass are concentrated at the headwaters of the washes, and along the
- drainageway. Pappusgrass and stinkgrass were present throughout the site. 3. 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.
- 4. 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.
- 5. 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.
- 6. Continual monitoring for invasive species, and removal, is recommended.

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
Olneya tesota	Ironwood	4				4
Parkinsonia florida	Blue Palo Verde	1		1		2
Parkinsonia microphylla	Foothill Palo Verde	12	2	50	1	65
Prosopis velutina	Velvet Mesquite	11		18		29
Senegalia greggii	Catclaw Acacia	3		2		5
TOTAL ALL SPECIES		31	2	71		105

ID Caliper Height Trans- Criteria (Inches) (Feet) plantable Olneya tesota, Ironwood (OT) 93 14 15 Yes 94 17 13 Yes 95 33 24 Yes 96 31 19 Yes Parkinsonia florida, Blue Palo Verde (PF) B: Size 65 16 No 19 No B: Size 82 13 13 Parkinsonia microphylla, Foothill Palo Verd No B: Size 14 15 2 C: Spa 15 12 No 3 D: Soil 14 14 No E: Top 4 15 No 15 6 B: Size 15 No 18 7 B: Size 13 No 14 8 13 No B: Size 15 9 23 13 No A: Hea 10 12 No B: Size 21 14 B: Size 12 No 14 15 18 12 B: Size No B: Size 16 12 20 No 17 B: Size 16 13 No 18 C: Dan 12 No 13 19 No B: Size 14 15 20 E: Topo 17 18 No 22 B: Size 15 15 No 24 No B: Size 15 14 25 B: Size 14 14 No 26 12 B: Size 14 No 27 B: Size 17 14 No 28 B: Size 18 15 No 30 13 No B: Size 18 32 B: Size 20 15 No 33 No B: Size 17 14 34 B: Size 19 14 No 35 13 No B: Size 16 39 13 12 Yes 40 E: Topo 12 No 12 41 B: Size 13 No 17 42 B: Size 12 No 14 43 B: Size No 14 15 45 B: Size 13 No 19 46 12 No B: Size 16 B: Size 48 15 No 40 C: Spa 49 12 12 No 50 20 12 Yes 51 12 14 Yes 54 12 E: Topo No 13 C: Spa 55 12 No 14 56 12 16 Yes 59 14 B: Size 12 No E: Topo 63 14 No 13 72 B: Size 12 12 No 75 12 No E: Topo 17 76 12 E: Topo 12 No

Note: Inventory numbers 103 - 106 refer to nor 'Inventoried Corridor Character Vegetation', Sh

SITE RESOURCE INVENTORY RANCHO VISTOSO 7-I / AVILLA AT RANCHO VISTOSO WEST 2200222

INVENTORIED SIGNIFICANT VEGETATION

VEGETA ria	Disposition	Notes	ID	Caliper	Height	Trans-	Criteria	Disposition	Notes
			Park	(Inches) insonia mi	(Feet) crophvlla	plantable . Foothill Pa	lo Verde (PM) Con	tinued	
	PIP		78	24	15	No	B: Size and Age	PIP	
	PIP		79	24	14	No	B: Size and Age	RFS	
	PIP		80	25	15	No	B: Size and Age	PIP	
	PIP		84	31	12	No	B: Size and Age	RFS	
			85	20	14	No	B: Size and Age	RFS	
ze and Age	PIP		86	16	13	No	B: Size and Age	RFS	
ze and Age	RFS		87	19	16	No	B: Size and Age	RFS	
de (PM)			88	20	14	No	C: Spadeability	RFS	
ze and Age	RFS		89	12	11	Yes	B: Size and Age	RFS	Box Candidate
adeability	RFS		90	20	18	No	B: Size and Age	RFS	Dox Canadato
pils	RFS		91	22	17	No	E: Topography	RFS	
pography	PIP		92	18	14	No	B: Size and Age	RFS	
ze and Age	RFS		97	20	12	No	B: Size and Age	RFS	
ze and Age	RFS		98	20	15	No	B: Size and Age	RFS	
ze and Age	RFS		100	16	15	No	E: Topography	PIP	
ealth	RFS		100	17	15	No	B: Size and Age	PIP	
ze and Age	RFS		107	27	18	No	B: Size and Age	RFS	
ze and Age	RFS						F: Adjacent		
ze and Age	RFS		108	12	14	No	Plants	RFS	
ze and Age	RFS		109	14	14	No	B: Size and Age	RFS	
ze and Age	RFS		Pros	opis veluti	na, Velve	t Mesquite (I	PV)		
amage	RFS		11	17	15	No	G: Form	RFS	
ze and Age	RFS		12	12	17	No	E: Topography	RFS	
pography	RFS		21	12	14	No	B: Size and Age	RFS	
ze and Age	RFS	Box Candidate	23	14	14	No	B: Size and Age	RFS	Dieback
ze and Age	RFS	Box Candidate	29	12	13	No	G: Form	RFS	
ze and Age	RFS	Box Candidate	31	16	12	No	B: Size and Age	RFS	
ze and Age	RFS	Box Candidate	36	29	18	No	B: Size and Age	RFS	
ze and Age	RFS		37	23	16	No	B: Size and Age	RFS	
ze and Age	RFS	Box Candidate	38	20	15	No	G: Form	RFS	
ze and Age	RFS		44	27	13	No	B: Size and Age	RFS	
ze and Age	RFS	Box Candidate	47	28	14	No	B: Size and Age	RFS	
ze and Age	RFS	Box Candidate	52	21	15	No	B: Size and Age	RFS	
ze and Age	RFS		53	20	18	No	B: Size and Age	PIP	
ze and Age	RFS	Box Candidate	57	2	20	No	B: Size and Age	PIP	
	TOS		58	21	17	No	E: Topography	PIP	
pography	RFS		60	12	16	No	D: Soils	RFS	
ze and Age	RFS		61	25	20	No	B: Size and Age	RFS	
ze and Age	RFS		62	16	13	No	E: Topography	PIP	
ze and Age	RFS		64	27	21	No	B: Size and Age	PIP	
ze and Age	RFS		66	22	20	No	B: Size and Age	PIP	
ze and Age	RFS	Box Candidate	68	14	16	No	B: Size and Age	PIP	
ze and Age	PIP		69	18	15	No	B: Size and Age	PIP	
adeability	PIP		70	22	16	No	B: Size and Age	PIP	
	PIP		71	13	12	No	G: Form	PIP	
	PIP		74	17	14	No	B: Size and Age	RFS	
pography	PIP		81	14	13	No	B: Size and Age	PIP	
badeability	PIP		83	14	12	No	E: Topography	RFS	
	TOS		99	18	14	No	B: Size and Age	RFS	
ze and Age	RFS	Box Candidate	102	27	22	No	B: Size and Age	RFS	
pography	RFS		Sen	galia gregg	ii, Catclav	w Acacia (SC	3)		
ze and Age	RFS		5	17	14	No	C: Spadeability	PIP	
pography	RFS		13	12	12	No	C: Spadeability	RFS	
pography	PIP		67	17	15	No	G: Form	PIP	
	CCV plants. R	efer to Table	73	13	13	No	B: Size and Age	RFS	
Sheet N2.	1		77	14	13	No	B: Size and Age	PIP	

SITE RESOURCE INVENTORY NOTES & MITIGATION OF SIGNIFICANT VEGETATION

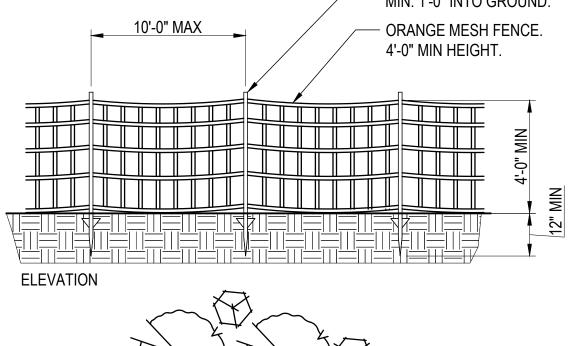
- 1. The Site Resource Inventory (SRI) was conducted in compliance with Town of Oro Valley (TOV) code requirements (TOV Zoning Code Section 27.6.B.3). Plants meeting the criteria for Significant Vegetation are shown on the SRI.
- 2. No stands of Significant Vegetation were noted.
- 3. Mitigation of Significant 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): 67,519 SF b. Amount being disturbed: 43,640 SF c. Total percentage disturbed: 65%
- d. Mitigation Ratio: 2:1
- 5. Required mitigation plants shall be reflected in the Landscape Plans for this project.

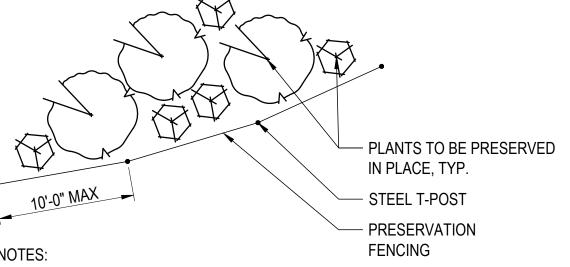
SIGNIFICANT VEGETATION MITIGATION

Required mitigation is per Table 27-1 and % Significant Vegetation disturbance. 102 Significant Trees were inventoried; 68 are designated for removal. One of the 102 trees is 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 65%

Species	QTY of Viable SV to be Removed	Mitigation Ratio	Replacement Trees (36" Box)	Replacement Trees (48" Box)	Understory Plants Required
Olneya tesota (Ironwood)	0	2:1	0	0	0
Parkinsonia florida (Blue Palo Verde)	1	2:1	1	1	10
Parkinsonia microphylla (Foothill Palo Verde)	50	2:1	50	50	500
Prosopis velutina (Velvet Mesquite)	18	2:1	18	18	180
Senegalia greggii (Catclaw Acacia)	2	2:1	2	2	20
TOTAL MITIGATION REQUIRED	71		71	71	710

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.

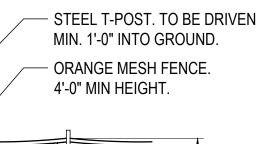




NOTES:

- 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 possible. If redirection is not possible, cut roots cleanly with sharp pruning instruments.
- moss, wrap with burlap, and maintain in a moist condition. Support and protect roots from further damage until they are permanently covered with soil.





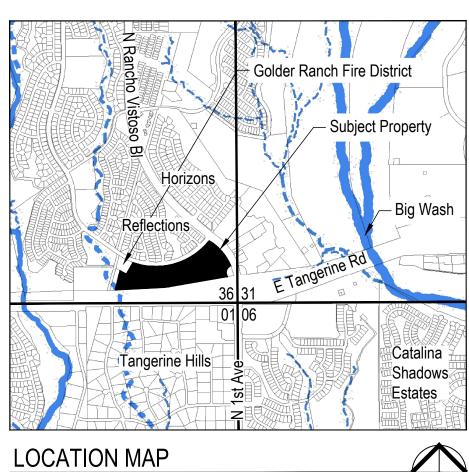
3. Do not allow exposed and/or pruned roots to dry out. Provide temporary cover with peat

PROTECTIVE FENCING

NTS

DATE

ILDER scape Architects	AND SAME AND SAME SUPER TO THE STREET	Date: December 21, 2022 Designed By: Wilder Team; Checked By: JP REVISIONS: Rev. # Date Description	SITE RESOURCE INVENTORY COVER AND SUMMARY TABLES Rancho Vistoso 7-1 /	
East Adams Street on, Arizona 85716	PATTON		Avilla at Rancho Vistoso W	est
on, 520-320-3936 fer@wilderla.com	TP/20NA, U.S. TP/RES 6/30 2015	Portion of Section 36, Township 11S, Range 13E, G. & S.R.M., Town of Oro Valley, Pima County, Arizona	ORO VALLEY CASE #: 2200222 REF CASE #: 2102388	1 SHEET 1 OF 3



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

Arizona

ASSESSOR PARCEL NUMBERS (APN): 219-54-002K and 219-54-002L

SYMBOL / LINETYPE LEGEND

SYMBOL	ELEMENT
	PAD Open Space Boundary
	100-Year Floodplain
	Property Boundary
	Limit of Grading (where it differs from Property Boundary)
	Easement
	Existing Contour, 1' Interval
xxxx-	Preservation Fencing

SHEET INDEX

- 1 SITE RESOURCE INVENTORY COVER SHEET & SUMMARY TABLES
- 2 3 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

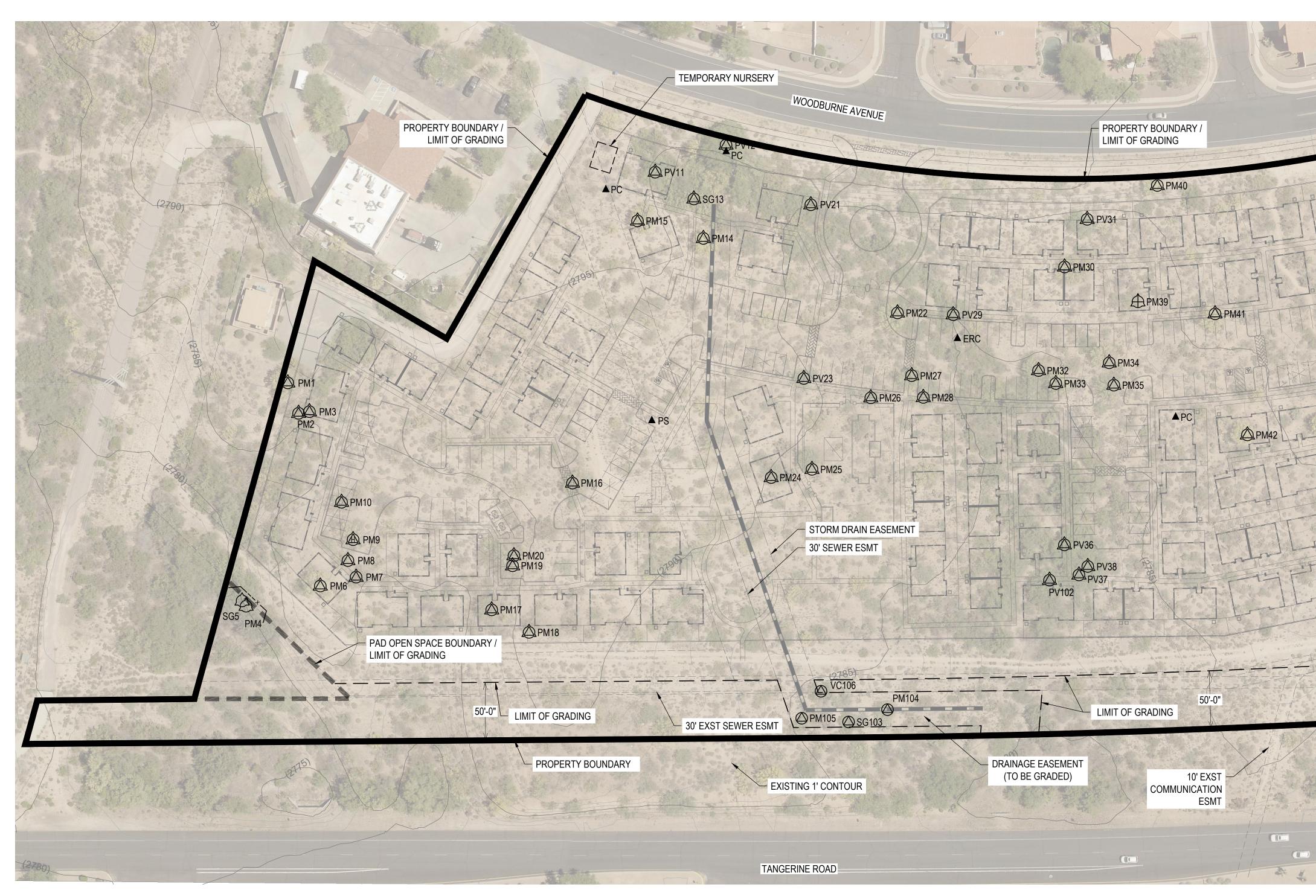
ATTENTION: JARED GEISLER PH: 602-339-2091 EMAIL: JARED@NEXMETRO.COM

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



INVENTORIED CORRIDOR CHARACTER VEGETATION

ID	Botanical Name	Common Name	Caliper (Inches)	Height (Feet)	Trans- plantable	Criteria	Disposition	Notes
103	Senegalia greggii	Catclaw Acacia	2	7	No	F: Adjacent Plants	RFS	CCV, clu
104	Parkinsonia microphylla	Foothill Palo Verde	7	8	No	C: Spadeability	RFS	CCV
105	Parkinsonia microphylla	Foothill Palo Verde	4	9	No	F: Adjacent Plants	RFS	CCV, PM
106	Vachellia constricta	Whitethorn Acacia	6	9	No	C: Spadeability	RFS	CCV

cluster of 3 within 10' PM 1, SG 2

CORRIDOR CHARACTER VEGETATION

- 1. A Drainage Easement and Entry Drive encroach into the required 50' Corridor Character Vegetation (CCV) zone. These areas were inventoried for both significant vegetation and CCV. CCV exists within the drainage easement (refer to Table, this Sheet) but not within the entry drive. No mitigation is proposed for CCV to be removed as the form and adjacency to other plants does not permit transplanting. Significant vegetation is present within the entry drive and this is included in the SRI.
- Inventoried CCV includes, "tree species as specified (in Note 3) with a trunk diameter greater than six (6) inches, measured at a point two (2) feet above the ground, or a cluster of three (3) or more trees located within ten (10) feet of each other with trunk diameters of more than two (2) inches."
 Tree species included as CCV are: Blue palo verde (*Cercidium floridum* or *Parkinsonia florida*), littleleaf palo
- verde (Cercidium microphyllum or Parkinsonia microphylla), velvet mesquite (Prosopsis juliflora or Prosopis velutina), ironwood (Olneya tesota), desert willow (Chilopsis linearis), catclaw acacia (Acacia greggii or Senegalia greggii), sweet acacia (Acacia minuta), netleaf hackberry (Celtis reticulata), and velvet ash (Franxinus velutina).



SITE RESOURCE INVENTORY PLAN

SCALE: 1" = 50'-0"

50 25 0

SYMBOL LEGEND Significant Vegetation / CCV

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

INVENTORIED PLANTS

ABBRV	BOTANICAL NAME	COMMON NAME
OT	Olneya tesota	Ironwood
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.

INVASIVE PLANTS

SYMBOL	ABBRV	BOTANICAL NAME	COMMON NAME
	ENC ERC PC PS	Eragrostis cilianensis Pennisetum ciliare	Soft Feather Pappusgrass Stinking Lovegrass Buffelgrass Fountain Grass

Only concentrated infestations of invasive species are noted on the plans. Pappusgrass and Lovegrass were spread throughout the site. Buffelgrass and Fountain Grass were concentrated along the washes.

	_		_
_	D	Ε	R

2738 East Adams Street Tucson, Arizona 85716 jennifer@wilderla.com



		cember 21, d By: Wilder	2022 ⁻ Team; Checked By: JP
	REVISIO	NS:	
	Rev. #	Date	Description
/			, Township 11S, Range 13E, f Oro Valley, Pima County,

Arizona

SITE RESOURCE INVENTORY PLAN

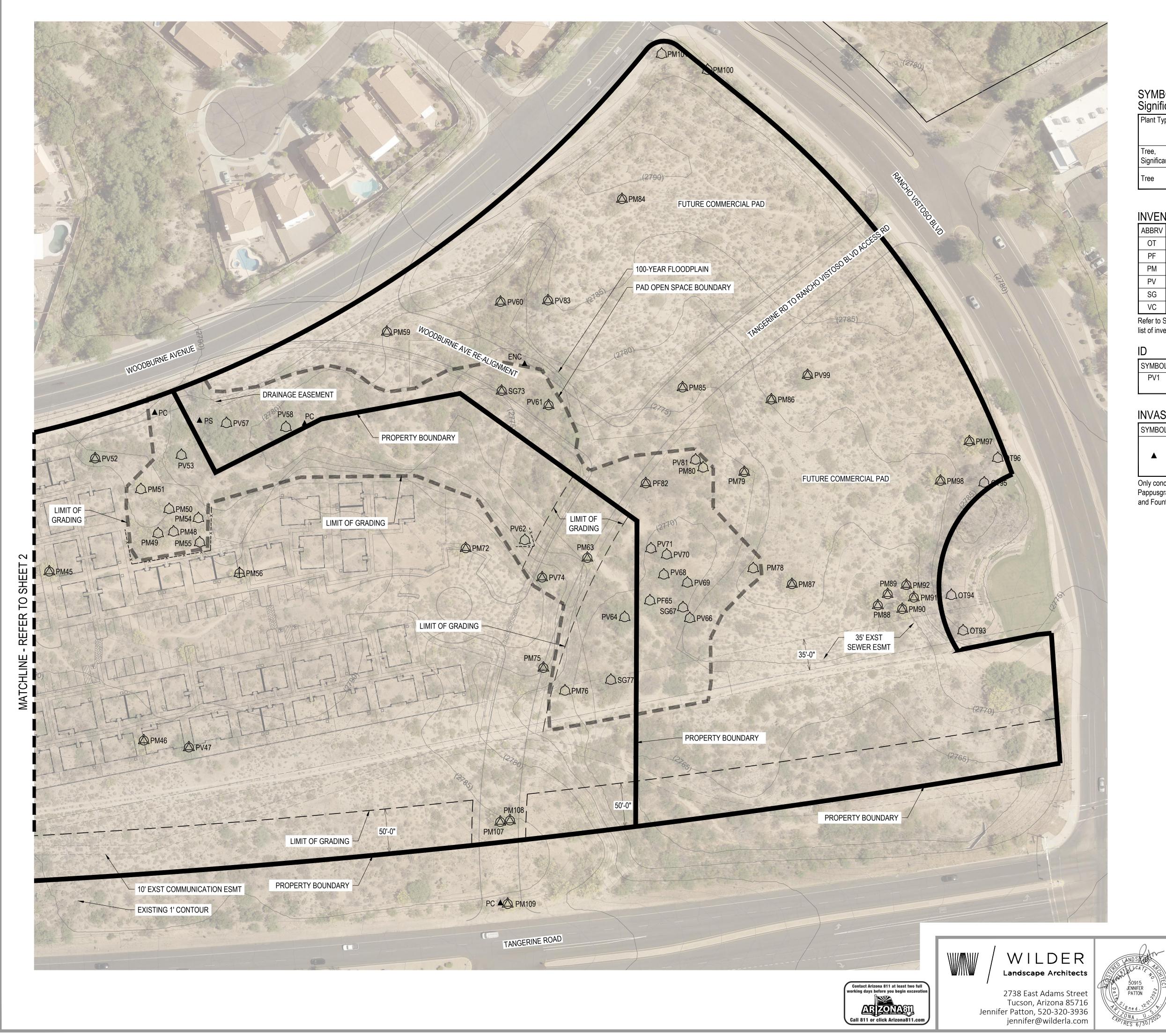
Rancho Vistoso 7-I / Avilla at Rancho Vistoso West

REF CASE #: 2102388

ORO VALLEY CASE #: 2200222

2 SHEET 2 OF 3

SHEET REFER TO **PM43** PV44



SITE RESOURCE INVENTORY PLAN

SCALE: 1" = 50'-0"

50 25 0



50

SYMBOL LEGEND Significant Vegetation / CCV

0	5			
Plant Type	Preserve	Transplant	Remove	Remove
	in Place	on Site	From Site	From Site
	(PIP)	(TOS)	(RFS)	(Health)
Tree, Significant	\bigtriangleup			
Tree			\bigcirc	

INVENTORIED PLANTS

ABBRV	BOTANICAL NAME	COMMON NAME		
ADDRV				
ОТ	Olneya tesota	Ironwood		
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		
Defer te Cite Deseures Inventery Tables for a complete				

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

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

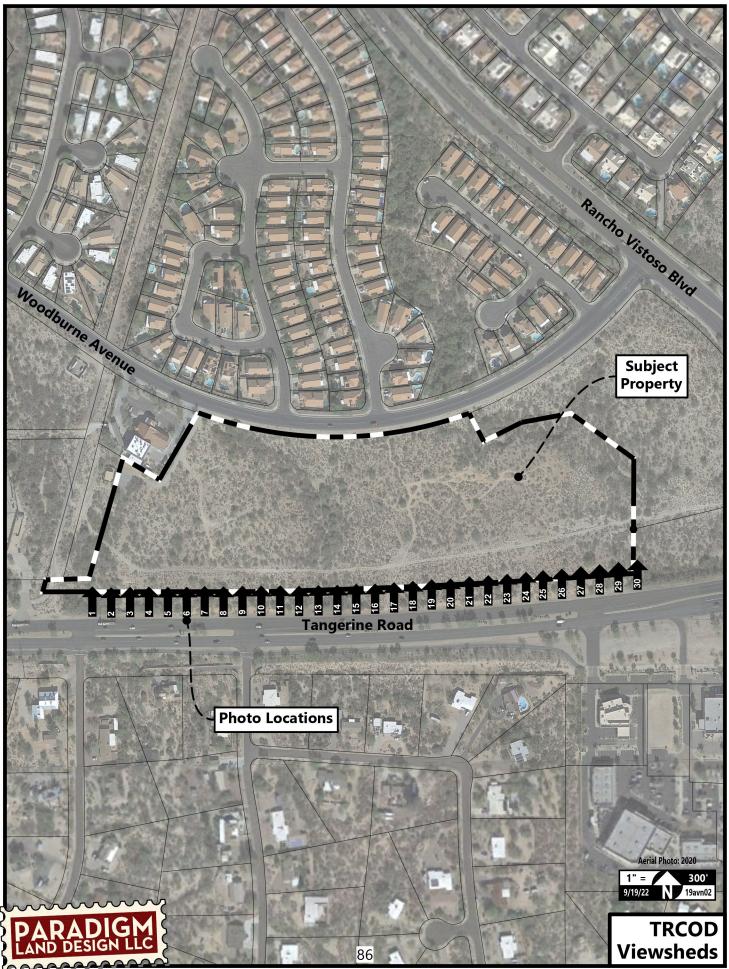
INVASIVE PLANTS

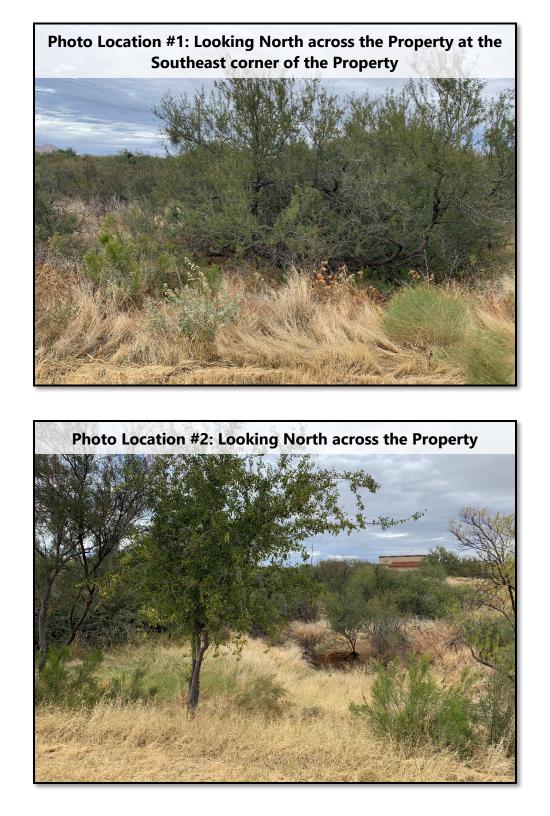
SYMBOL	ABBRV	BOTANICAL NAME	COMMON NAME
	ENC	Enneapogon cenchroides	Soft Feather Pappusgrass
	ERC	Eragrostis cilianensis	Stinking Lovegrass
	PC	Pennisetum ciliare	Buffelgrass
	PS	Pennisetum setaceum	Fountain Grass

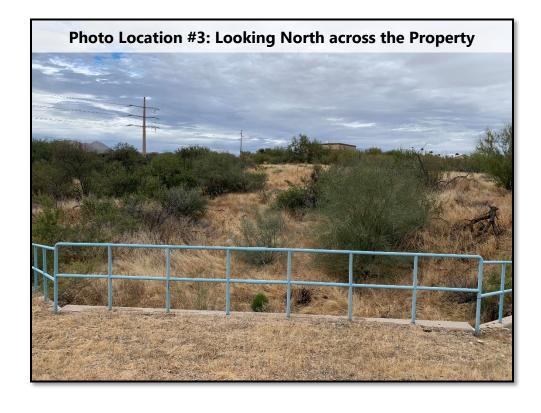
Only concentrated infestations of invasive species are noted on the plans. Pappusgrass and Lovegrass were spread throughout the site. Buffelgrass and Fountain Grass were concentrated along the washes.

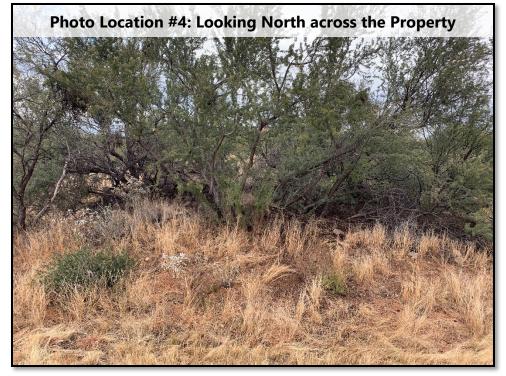
	Date: December 21, 2022 Designed By: Wilder Team; Checked By: JP	SITE RESOURCE INVENTORY PLAN <u>Rancho Vistoso 7-I /</u> <u>Avilla at Rancho Vistoso West</u>	
	REVISIONS: Rev. # Date Description		
<i>,</i>	Portion of Section 36, Township 11S, Range 13E, G. & S.R.M., Town of Oro Valley, Pima County, Arizona	ORO VALLEY CASE #: 2200222 REF CASE #: 2102388	З анеет з

APPENDIX B – TRCOD VISUAL ANALYSIS PHOTOGRAPHS



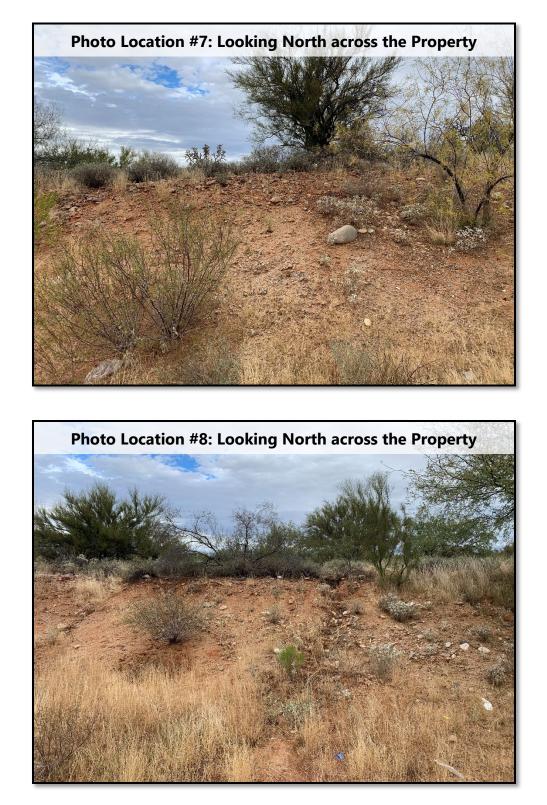




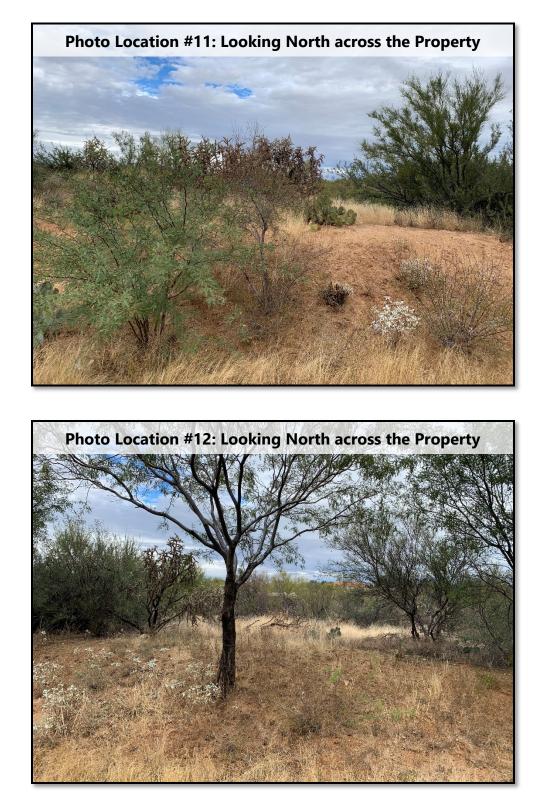


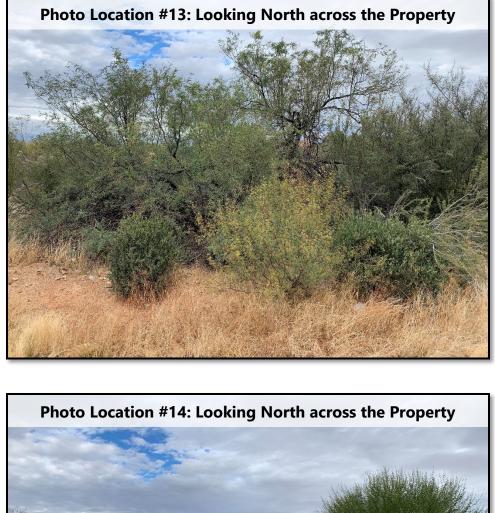




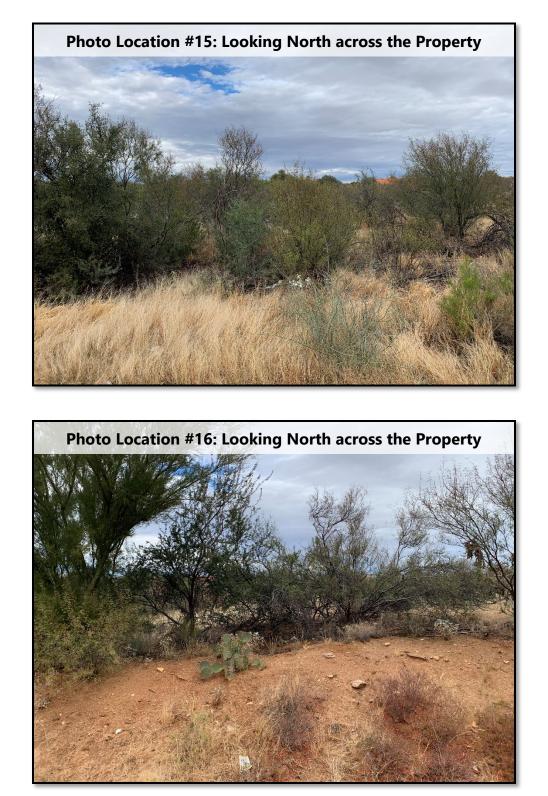


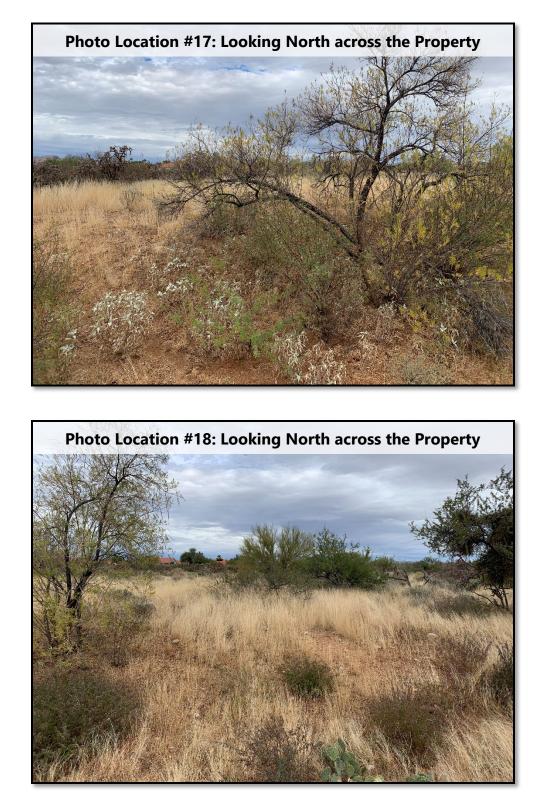


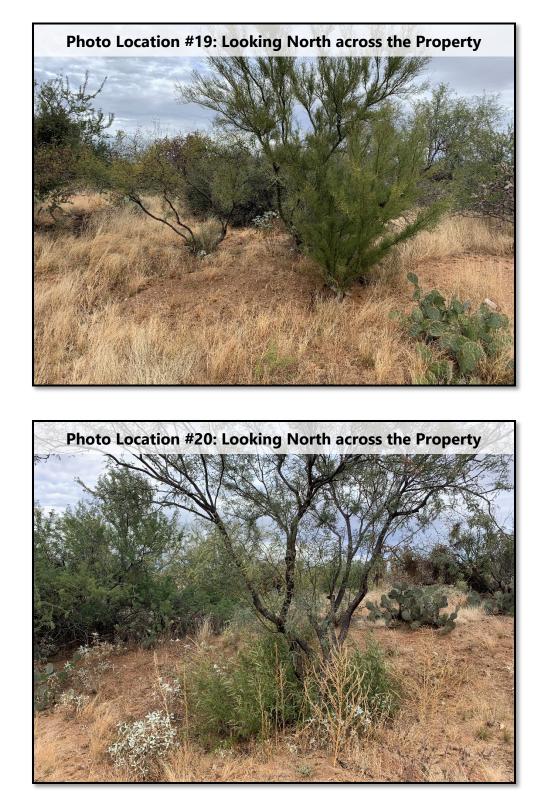






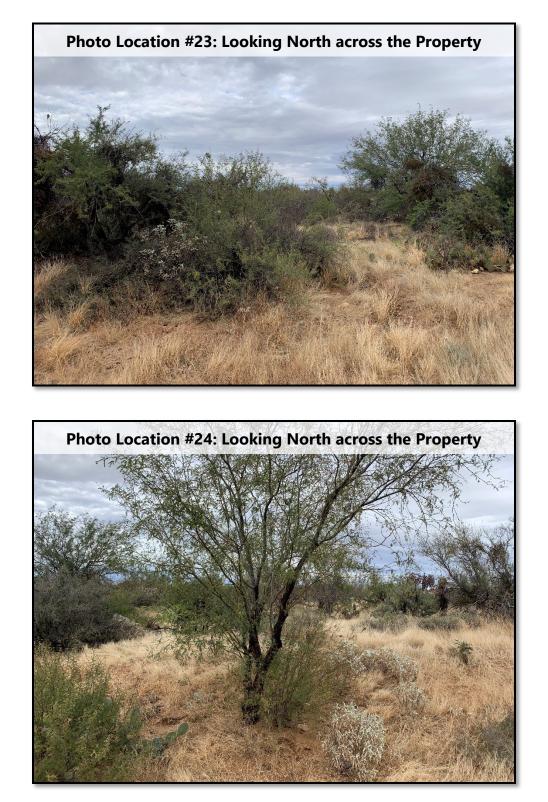


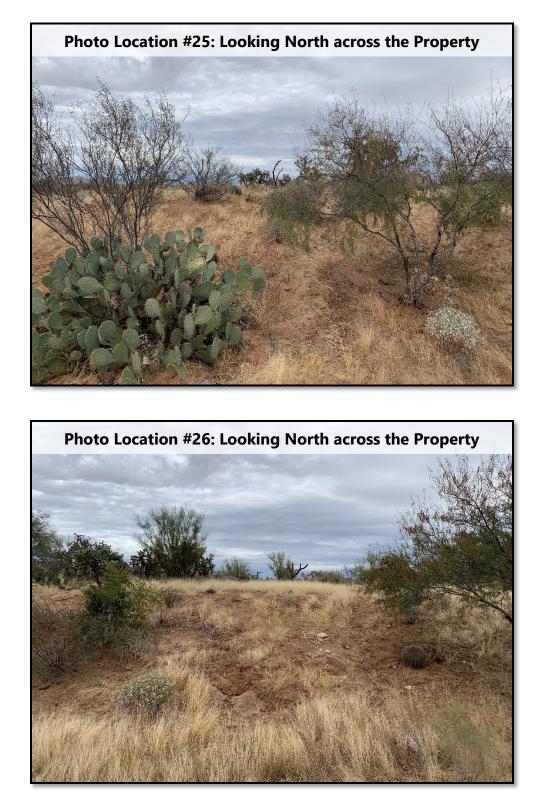


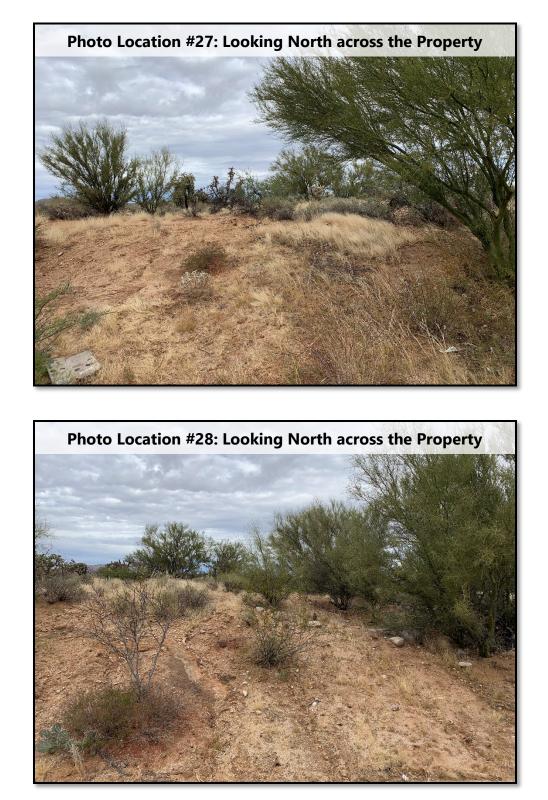


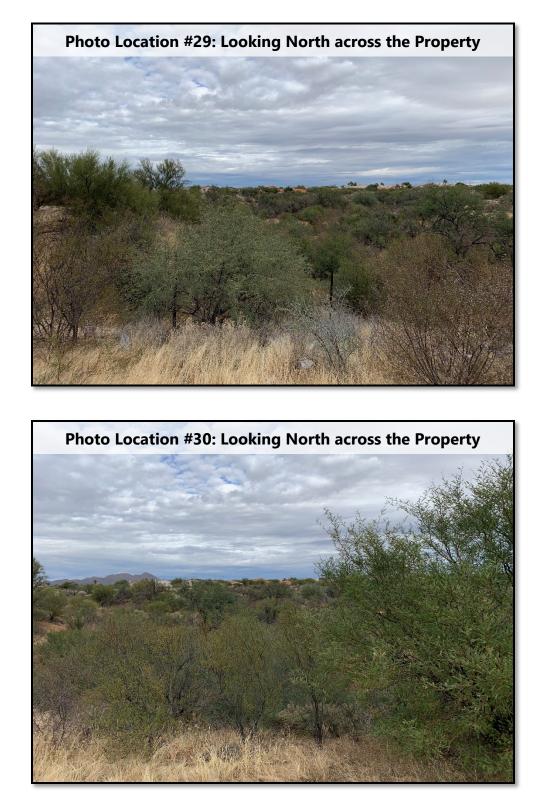












APPENDIX C – BIBLIOGRAPHY

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<u>Oro Valley Town Code</u>. Town of Oro Valley, Arizona: March 2022.

<u>Rancho Vistoso Planned Area Development</u>. 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>

Water Usage Rough Estimates - Action Manufacturing (actionmfg.com)