

SITE RESOURCE INVENTORY AVILLA RANCHO VISTOSO EAST 2200136

PROJECT OVERVIEW

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

SITE RESOURCE INVENTORY NOTES & MITIGATION OF SIGNIFICANT VEGETATION

- 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.
- No stands of Significant Vegetation were noted.
- Mitigation of Significant Vegetation shall be in accordance with TOV Zoning Code Section 27.6.B.4.j.
- Significant Vegetation Information:
 - Amount present within Grading Limits (canopy diameter assessed as two times the height of tree): 28,886 SF
 - Amount being disturbed: 28,310 SF
 - Total percentage disturbed: 98%
 - Mitigation Ratio: 2:1
- Required mitigation plants shall be reflected in the Landscape Plans for this project.

PLANT TRANSPLANTABILITY CRITERIA

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

- 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.
- SIZE & AGE:** The plant is of a size and age to suggest a likely chance of transplant survival.
- SPADEABILITY/DAMAGE:** Plant is undamaged and is conducive to box or spade transplanting (upright branching).
- SOILS:** Soils can be excavated, are cohesive, and appear capable of supporting a boxed or spaded root ball.
- TOPOGRAPHY:** Surrounding topography permits access with the appropriate equipment needed to box or spade and remove the plant.
- ADJACENT PLANTS:** Adjacent plants do not pose a likely interference with root systems or interfere with plant removal.
- FORM:** The overall form and character is representative of the species and is a valuable specimen for landscape or habitat purposes.

INVASIVE SPECIES

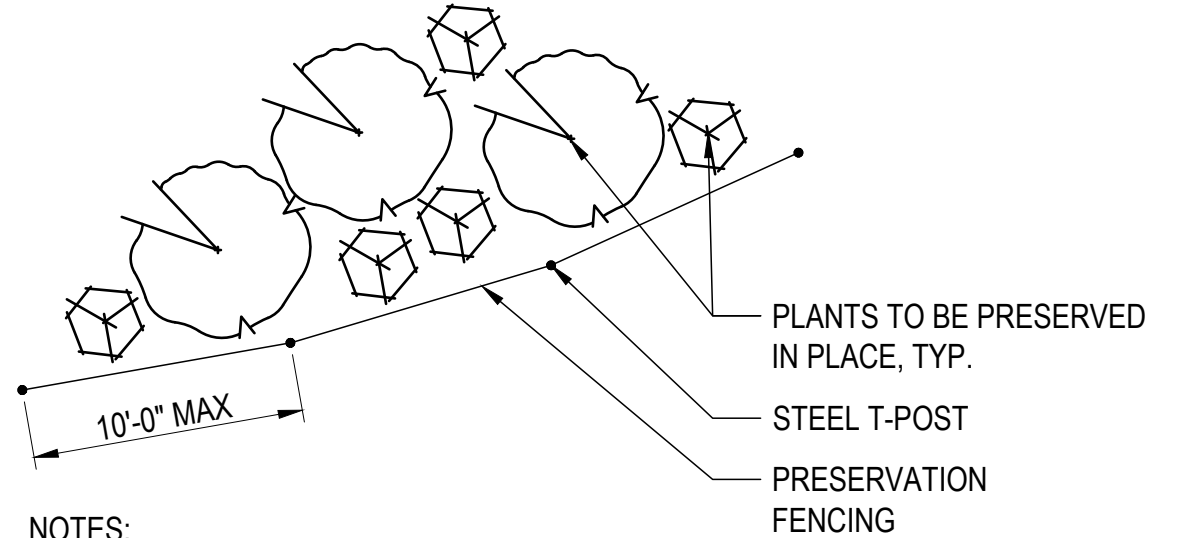
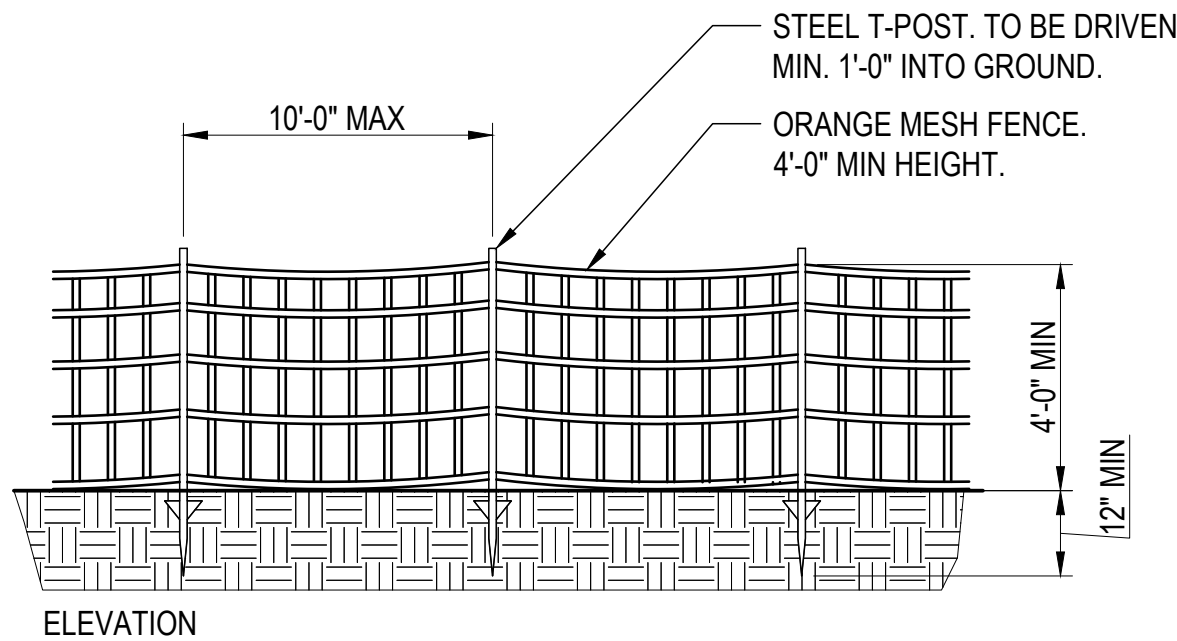
- Two highly invasive species were observed on the site within the project area.
 - Buffelgrass (*Pennisetum ciliare*), an invasive species included on the Oro Valley Prohibited Plant List (Addendum E).
 - Soft Feather Pappusgrass (*Enneapogon Cenchrroides*) is native to Africa. Like buffelgrass, it displaces native vegetation and is a fire fuel source.
- 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.
- 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.
- 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.
- Continual monitoring for invasive species, and removal, is recommended.

GENERAL NOTES

- The gross area of development is 8.05 +/- acres
- Total acres of graded area: 8.05 +/- acres
- Total acres of undisturbed area: 0.0
- Required Open Space: 30% meaningful open space
- 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.
- 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)
- 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.
- Plant locations were determined with the assistance of a global positioning system. This system is accurate to within approximately one foot.

INVENTORIED SIGNIFICANT VEGETATION

ID	Caliper (Inches)	Height (Feet)	Trans-plantable	Criteria	Disposition	Notes
Parkinsonia florida, Blue Palo Verde (PF)						
11	19	15	No	B: Size and Age	RFS	
Parkinsonia microphylla, Foothill Palo Verde (PM)						
1	13	13	No	C: Damage	RFS	Dieback, Trunk Damage
2	17	12	No	B: Size and Age	RFS	
3	17	14	No	B: Size and Age	RFS	
4	15	14	No	E: Topography	RFS	
5	21	15	No	B: Size and Age	RFS	
7	12	13	No	D: Soils	RFS	
8	12	12	No	G: Form	RFS	
17	14	12	No	E: Topography	RFS	
18	20	17	No	E: Topography	RFS	
19	12	12	No	E: Topography	RFS	
20	14	12	No	A: Health	RFS	Significant Dieback
21	24	16	No	B: Size and Age	RFS	
22	17	13	No	B: Size and Age	RFS	
23	15	12	No	A: Health	RFS	
24	13	12	No	E: Topography	PIP	
25	13	12	No	B: Size and Age	RFS	Box Candidate
26	13	12	No	B: Size and Age	RFS	Box Candidate
27	15	12	No	B: Size and Age	RFS	
28	14	12	No	B: Size and Age	RFS	
29	16	12	No	B: Size and Age	RFS	
30	16	12	No	B: Size and Age	RFS	
31	16	12	No	B: Size and Age	RFS	
32	15	15	No	A: Health	RFS	Significant Dieback
33	12	14	No	B: Size and Age	RFS	Box Candidate
34	17	12	No	D: Soils	RFS	
35	17	14	No	B: Size and Age	RFS	Box Candidate
39	18	16	No	B: Size and Age	RFS	
40	20	14	No	B: Size and Age	RFS	
41	12	12	No	B: Size and Age	RFS	Box Candidate
42	30	18	No	B: Size and Age	RFS	
43	21	14	No	E: Topography	RFS	
44	12	15	No	B: Size and Age	RFS	
45	19	14	No	B: Size and Age	RFS	
Prosopis velutina, Velvet Mesquite (PV)						
6	20	12	No	B: Size and Age	RFS	
9	26	20	No	B: Size and Age	RFS	
10	27	20	No	B: Size and Age	RFS	
12	17	15	No	B: Size and Age	RFS	
13	27	18	No	B: Size and Age	RFS	
14	14	18	No	B: Size and Age	RFS	
16	17	16	No	B: Size and Age	RFS	
36	21	14	No	B: Size and Age	RFS	
37	12	16	No	C: Damage	RFS	
46	36	17	No	B: Size and Age	RFS	
47	25	20	No	B: Size and Age	RFS	
49	13	15	No	E: Topography	RFS	
Sengalia greggii, Catclaw Acacia (SG)						
38	17	12	No	C: Damage	RFS	
Vachellia constricta, Whitethorn Acacia (VC)						
15	12	15	No	B: Size and Age	RFS	
48	12	16	No	E: Topography	RFS	

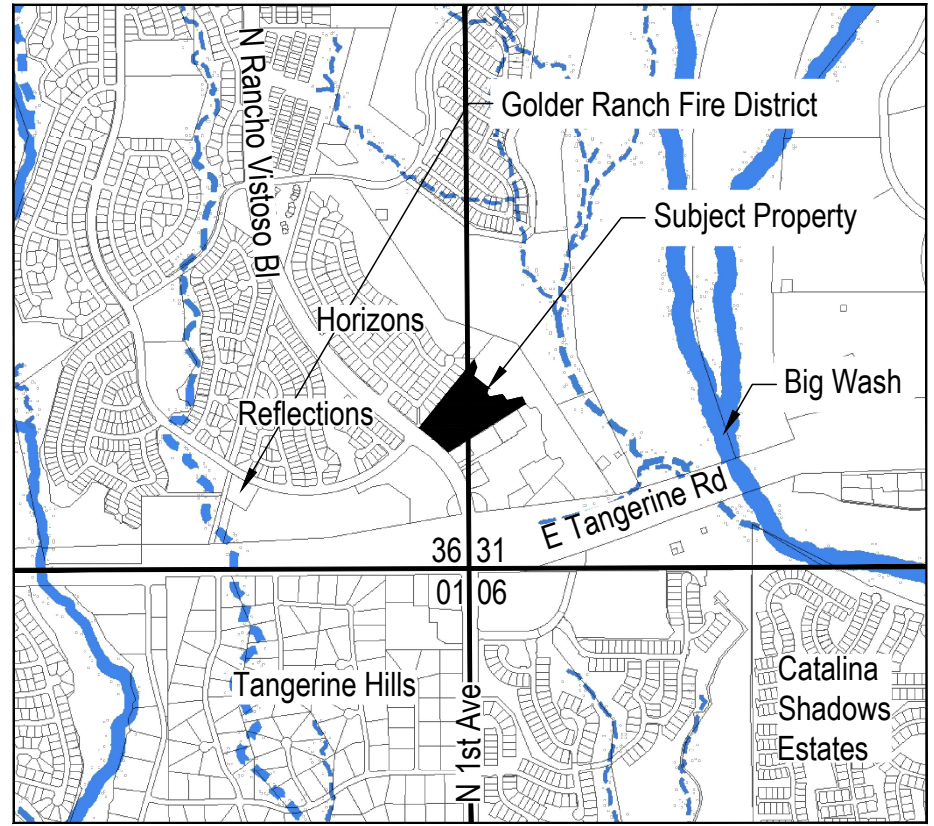


NOTES:

- When excavating within 4'-0" from dripline of plants to be preserved in place, hand clear to minimize damage to root systems.
- 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.
- Do not allow exposed and/or pruned roots to dry out. Provide temporary cover with peat moss, wrap with burlap, and maintain in a moist condition. Support and protect roots from further damage until they are permanently covered with soil.

1 PROTECTIVE FENCING

NTS



LOCATION MAP

Portion of Section 36, Township 11S, Range 13E and Section 31, Township 11S, Range 14E, G & S.R.M., Town of Oro Valley, Pima County, Arizona
ASSESSOR PARCEL NUMBER (APN) 219-54-003B



SIGNIFICANT VEGETATION SUMMARY

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

SIGNIFICANT VEGETATION MITIGATION

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

Species	QTY of Viable SV to be Removed	Mitigation Ratio	Replacement Trees (48" Box)	Replacement Trees (36" Box)	Understory Plants Required
Parkinsonia florida (Blue Palo Verde)	1	2:1	1	1	10
Parkinsonia microphylla (Foothill Palo Verde)	29	2:1	29	29	290
Prosopis velutina (Velvet Mesquite)	12	2:1	12	12	120
Senegalia greggii (Catclaw Acacia)	1	2:1	1	1	10
Vachellia constricta (Whitethorn Acacia)	2	2:1	2	2	20
TOTAL MITIGATION REQUIRED			45	45	450

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

SYMBOL / LINETYPE LEGEND

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

APPROVAL

PLANNING & ZONING ADMINISTRATOR	DATE
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WILDER
Landscape Architects

2738 East Adams Street
Tucson, Arizona 85716
Jennifer Patton, 520-320-3936
jennifer@wilderla.com

Date: June 22, 2022
Designed By: Wilder Team; Checked By: JP

REVISIONS:

Rev. #	Date	Description
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SITE RESOURCE INVENTORY COVER SHEET AND SUMMARY TABLES

Avilla Rancho Vistoso East

Portion of Section 36, Township 11S, Range 13E and Section 31, Township 11S, Range 14E, G & S.R.M., Town of Oro Valley, Pima County, Arizona	ORO VALLEY CASE #: 2200136 REF CASE #: OV12-06-28, 2101944	1 SHEET 1 OF 2
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SYMBOL LEGEND
Significant Vegetation

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

INVENTORIED PLANTS

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

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

ID

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

SYMBOL / LINETYPE LEGEND

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

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SITE RESOURCE INVENTORY PLAN

Avila Rancho Vistoso East

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

ORO VALLEY CASE #: 2200136
REF CASE #: 0V12-06-28, 2101944

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SHEET 2 OF 2