SITE RESOURCE INVENTORY NORTH RIDGE ESTATES 2302611

PROJECT OVERVIEW

1. Single family homes are proposed for the site.

2. Existing Site Conditions and Vegetative Community: The 2022 aerial imagery accurately reflects the current site conditions. There is significant disturbance from off-road vehicle use. The project site is within the Sonoran palo verde-mixed cacti-mixed scrub series of the Arizona Upland Subdivision of the Sonoran Desertscrub biotic community (Turner and Brown 1994). This community is characterized by an overstory of paloverde trees and saguaro cacti, with a relatively dense scrubby understory. The dominant tree is foothill palo verde (Parkinsonia microphylla). Velvet mesquite (Prosopis velutina), whitethorn acacia (Vachellia constricta), blue palo verde (Parkinsonia florida), and catclaw acacia (Senegalia greggii) are present in smaller numbers and occur closer to the watercourse. Common shrubs include cheesebush, (Ambrosia salsola), range ratany (Krameria parvifolia), triangleleaf bursage (Ambrosia deltoidea), desert peony (Acourtia wrightii) and creosote (Larrea tridentata). Mormon tea (Ephedra sp.), Warnock's snakewood (Condalia warnockii) and trixis (Trixis californica) are also present. Xeroriparian shrubs along the watercourse include desert hackberry (Celtis pallida), Warnock's snakewood (Condalia warnockii), wolfberry (Lycium sp.) and graythorn (Ziziphus obtusifolia). Dominant cacti include saguaro (Carnegiea gigantea), chainfruit cholla (Cylindropuntia fulgida), staghorn cholla (Cylindropuntia versicolor), buckhorn cholla (Cylindropuntia acanthocarpa), Christmas cholla (Cylindropuntia leptocaulis), barrel cacti (Ferocactus wislizenii), pincushion cacti (Mammillaria sp.), and hedgehog (Echinocereus sp.).

GENERAL NOTES

- 1. The gross area of development is 35.40 +/- acres
- 2. Total acres of graded area: 4.56 +/- acres
- 3. Total acres of undisturbed area: 30.84 +/- acres
- 4. The Site Resource Inventory (SRI) was conducted for the proposed community roadways and utility easements 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.
- 5. 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)
- 6. 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.
- 7. 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.
- 8. Salvage operations shall not commence until the Zoning inspector has performed an inspection and given approval to be salvaged.
- 9. Temporary nursery shall be in conformance with Section 27.6.B.4.j.
- 10. Mitigation of Significant Vegetation shall be in accordance with Table 27-1 Mitigation of Significant Vegetation.
- 11. 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.
- 12. 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.
- 13. Details for required protective fencing for significant saguaros and other vegetation to be preserved in place are provided on Sheet L4 of these Plans for reference. Refer to The Final Site Plan for all site grading and grading details.
- 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.

SIGNIFICANT VEGETATION INFORMATION

- 1. No stands of Significant Vegetation were noted.
- 2. Significant Vegetation Information:
- a. Total amount of Significant Vegetation present within Grading Limits (canopy diameter assessed as two times the height of tree): 41,428 SF b. Total amount being disturbed: 26,521 SF
- c. Total percentage disturbed: 64%
- d. Mitigation Ratio: 2:1
- 3. Required mitigation plants shall be reflected in the Landscape Plans for this project.

PLANT TRANSPLANTABILITY CRITERIA

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

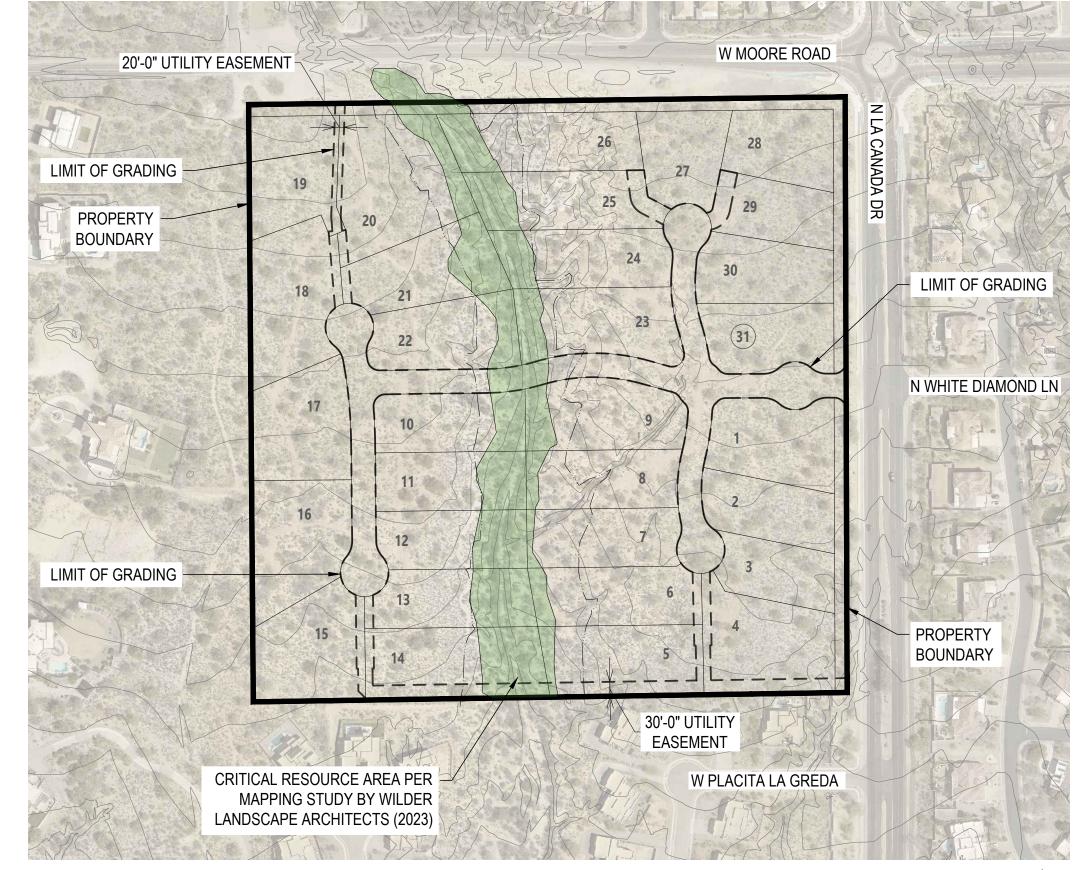
- A. HEALTH: Plant health is good to excellent with no major infestations or apparent diseases. "Plant health" is defined as a plant in a sound state, free from disease and expected to survive for five (5) or more years.
- B. SIZE & AGE: The plant is of a size and age to suggest a likely chance of transplant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

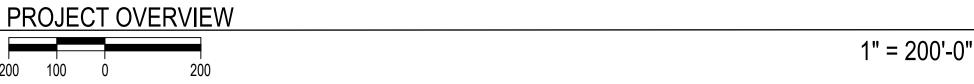
BOXING / SPADING FOR TREES TO BE TRANSPLANTED

- 1. Boxing, rather than spading, may be required for trees noted as 'Transplant' on the Site Resource Inventory Plans. These 'Significant' trees (12" + caliper) are often not conducive to spading - the amount of limbs that must be trimmed destroys the natural form of the tree, and in the case of palo verde, exposes the tree to scalding.
- 2. The Salvage Contractor shall identify each tree to be transplanted and the corresponding method of transplant (box or spade) with the selected box / spade size for approval by the Town of Oro Valley Planning Division prior to start of salvage. Written approval from the Town must be obtained prior to transplant of any tree.
- 3. When boxing is used, all tree boxing materials and construction details, including minimum box sizes, shall be in accordance with PAG Standard Specifications for Public Improvements, Section 809, Native Plant Salvage. Contractor may use larger box sizes, but not smaller, than those listed in the Specification.

INVASIVE SPECIES

- 1. The site has a low presence of invasive grass species. Buffelgrass (*Pennisetum ciliare*), an invasive grass species included on the Oro Valley Prohibited Plant List (Addendum E), was observed in the northeast portion of the site (locations are provided on the SRI Plan).
- 2. Invasive species within the project area should be removed (via mechanical or chemical means) from the site prior to the start of earth disturbance for construction.
- 3. 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
Carnegiea gigantea	Saguaro	5	5			10
Parkinsonia florida	Blue Palo Verde		1			1
Parkinsonia microphylla	Foothill Palo Verde	8	8	27	16	59
Prosopis velutina	Velvet Mesquite	6	1	14	1	22
Senegalia greggii	Catclaw Acacia			1		1
Vachellia constricta	Whitethorn Acacia		1			1
TOTAL ALL SPECIES	•	19	16	42	17	94

SIGNIFICANT VEGETATION MITIGATION

Required mitigation is per Table 27-1 and % Significant Vegetation disturbance. 84 significant trees (67 viable) and 10 significant saguaros were inventoried. 42 viable trees are designated for removal. Percentage of viable Significant Vegetation to be removed from site (measured as the square footage of the ground cover area) is 64%.

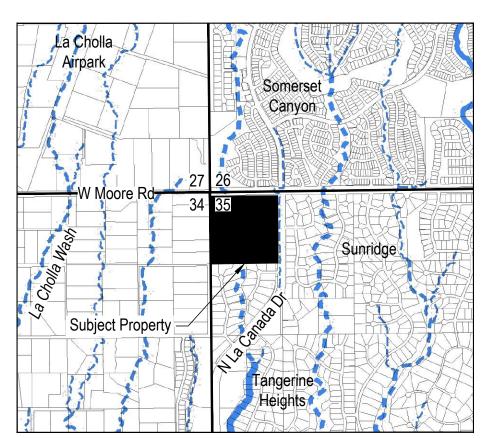
	ootage of the ground cover area) is 0476.					
Species	QTY of Viable SV to be Removed	Mitigation Ratio	Replacement Saguaros (same size or equal linear feet)	Replacement Trees (36" Box)	Replacement Trees (48" Box)	Understory Plants Required
Carnegiea gigantea (Saguaro)	0	N/A	0	0	0	0
Parkinsonia florida (Blue Palo Verde)	0	2:1		0	0	0
Parkinsonia microphylla (Foothill Palo Verde)	27	2:1		27	27	270
Prosopis velutina (Velvet Mesquite)	14	2:1		14	14	140
Senegalia greggii (Catclaw Acacia)	1	2:1		1	1	10
Vachellia constricta (Whitethorn Acacia)	0	2:1		0	0	0
TOTAL MITIGATION REQUIRED	42			42	42	420

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.





ELEMENT
Preservation Fencing
Property Boundary
Limit of Grading
Existing PAG Contour, 2' Interva
Proposed CRA per mapping stud (Wilder 2023)



LOCATION MAP

A portion of Section 35, T11S, R13E, G&SRM, Oro Valley, Pima County, Arizona ASSESSOR PARCEL NUMBER: 219-49-003A

SHEET INDEX

- 1 SITE RESOURCE INVENTORY COVER SHEET & SUMMARY TABLES
- 2 3 SITE RESOURCE INVENTORY PLAN 4 INVENTORY TABLES & DETAILS

OWNER

THE ESTATE OF HOPSON D D H TREMONT ATTN: GREG S. HEWETT, EXECUTOR 6110 E. SAN MARINO TUCSON AZ 85715 PHONE: 520-241-6949 EMAIL: GREGHEWETT@ME.COM

DEVELOPER

INSIGHT HOMES ATTN: MIKE JONES 3561 E. SUNRISE DRIVE #201 **TUCSON, AZ 85718** PHONE: 520-577-6688 EMAIL: MIKE@INSIGHTHOMES.COM

LANDSCAPE ARCHITECT

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

APPROVAL

PLANNING & ZONING ADMINISTRATOR DATE



Tucson, Arizona 85716

jennifer@wilderla.com

Jennifer Patton, 520-320-3936

Date: June 9, 2024 Designed By: Wilder Team; Checked By: JP **REVISIONS:** Rev. # Date Description

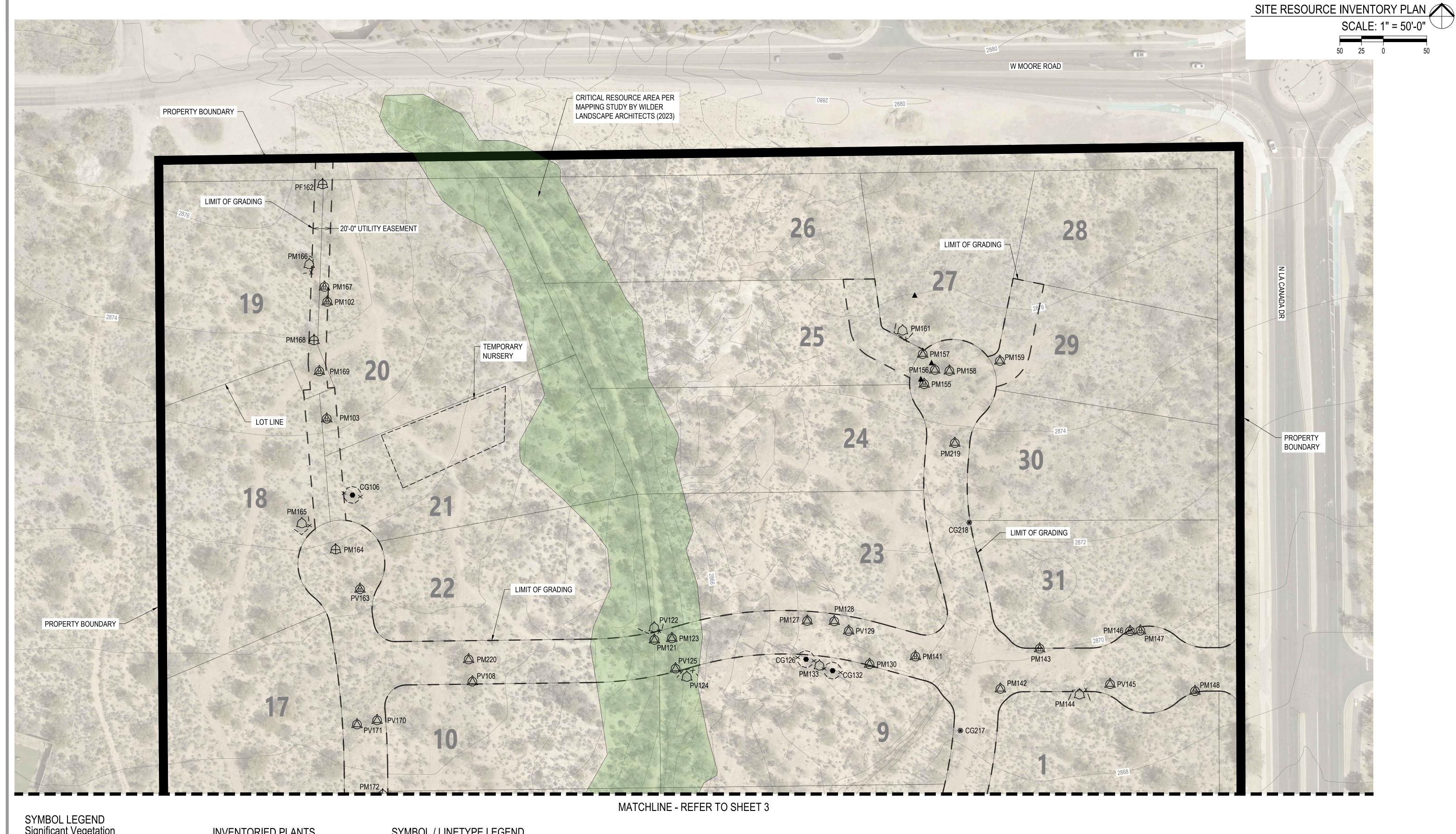
SITE RESOURCE INVENTORY COVER SHEET AND SUMMARY TABLES

North Ridge Estates

ORO VALLEY CASE #: 2302611 RELATED CASE #: 2203026

Portion of Section 35, Township 11S, Range 13E S.R.M., Town of Oro Valley, Pima County, Arizona

SHEET 1 OF 4



Significa	Significant vegetation			
Plant Type	Preserve in Place (PIP)	Transplant on Site (TOS)	Remove From Site (RFS)	Remove From Site (Health)
Tree, Significant	\Diamond	\bigoplus		
Saguaro, Significant	•	•		A

ID

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

INVENTORIED PLANTS

INVENTORIED FLAINTS				
ABBRV	BOTANICAL NAME	COMMON NAME		
CG	Carnegiea gigantea	Saguaro		
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 SRI Tables for a list of inventoried plants. INVASIVE PLANTS

SYMBOL ABBRV BOTANICAL NAME COMMON NAME ▲ PC Pennisetum ciliare Buffelgrass

SYMBOL / LINETYPE LEGEND

SYMBOL	ELEMENT
xx	Preservation Fencing
	Property Boundary
	Property Boundary Limit of Grading
2795 ———	Existing PAG Contour, 2' Interval
	Proposed CRA per mapping study (Wilder 2023)





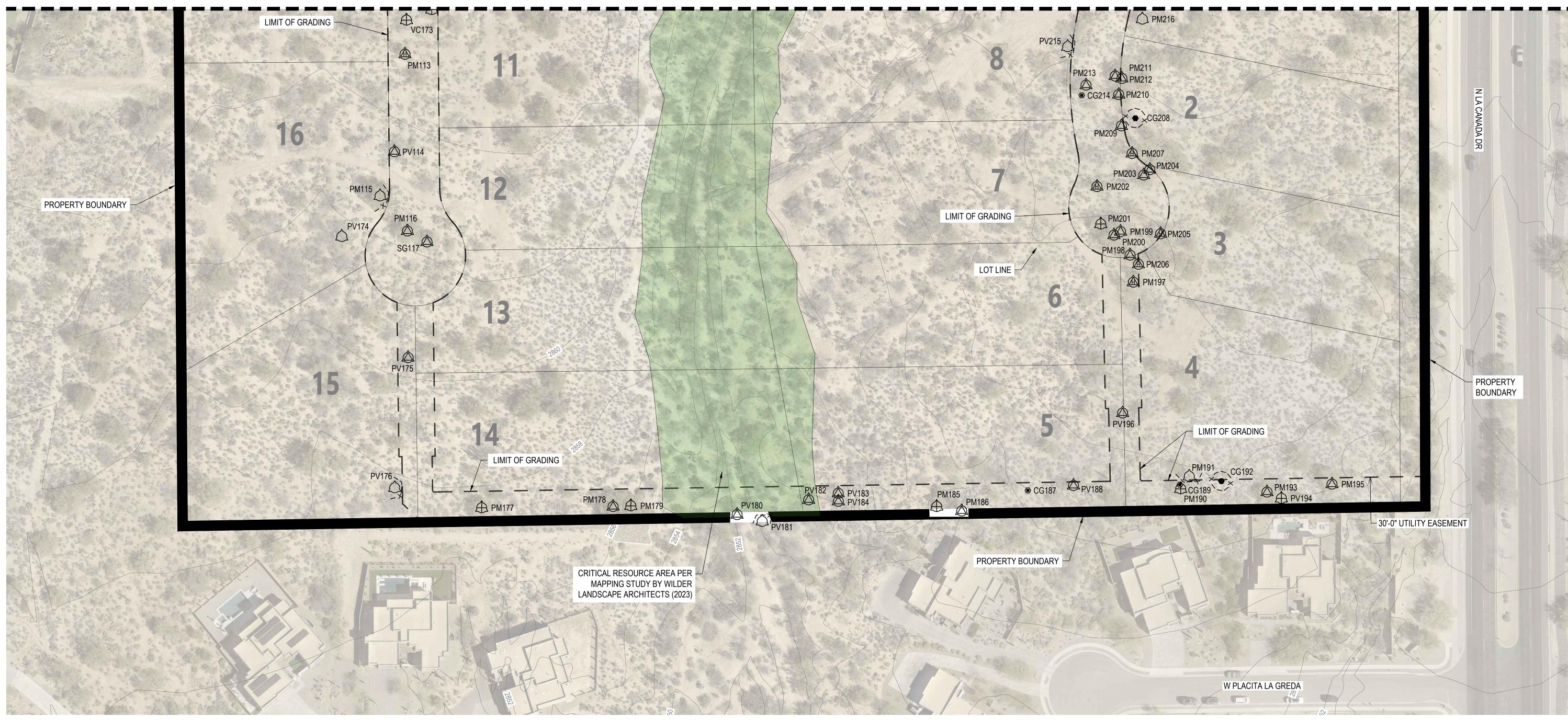
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I	REVISIO	NS:	
I	Rev.#	Date	Description
I			

SITE RESOURCE INVENTORY PLAN ed By: JP North Ridge Estates

Portion of Section 35, Township 11S, Range 13E S.R.M., Town of Oro Valley, Pima County, Arizona

ORO VALLEY CASE #: 2302611 RELATED CASE #: 2203026 SHEET 2 OF 4





SYMBOL LEGEND Significant Vegetation

Significant Vegetation				
Plant Type	Preserve in Place (PIP)	Transplant on Site (TOS)	Remove From Site (RFS)	Remove From Site (Health)
Tree, Significant	\Diamond	\oplus		
Saguaro, Significant	•	•		(A)

ID

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

INVENTORIED PLANTS

	HURIED PLANTS	<u> </u>	
ABBRV	BOTANICAL NAME	COMMON NAME	
CG	Carnegiea gigantea	Saguaro	
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 SRI Tables for a list of inventoried plants.

INVASIVE PLANTS

	· — · —		
SYMBOL	ABBRV	BOTANICAL NAME	COMMON NAME
A	PC	Pennisetum ciliare	Buffelgrass

SYMBOL / LINETYPE LEGEND
STIVIDOL / LINETTF L LLGLIND

SYMBOL	ELEMENT
xx	Preservation Fencing
	Property Boundary
	Limit of Grading
2795 ———	Existing PAG Contour, 2' Interval
	Proposed CRA per mapping study (Wilder 2023)





Date: Jun	•	er Team; Checked By
Designed	by. Wilde	i Team, Checkeu by
REVISIO	NS:	
Dov #	Data	Description

North Ridge Estates

SITE RESOURCE INVENTORY PLAN

Portion of Section 35, Township 11S, Range 13E
S.R.M., Town of Oro Valley, Pima County, Arizona

RELATED CASE #: 2203026

ORO VALLEY CASE #: 2302611 RELATED CASE #: 2203026

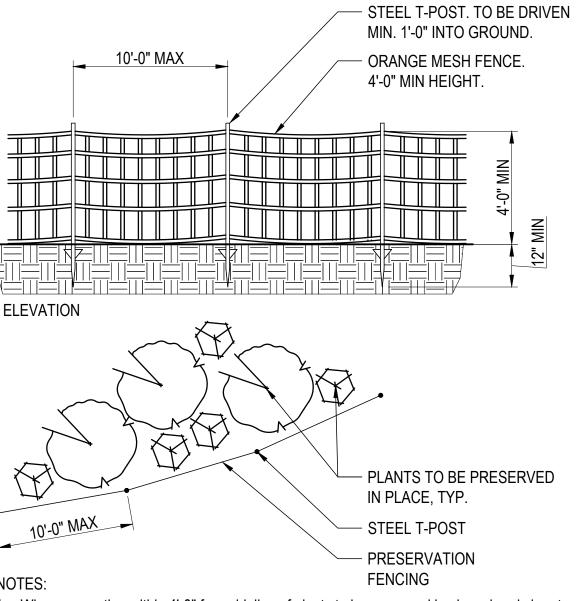
3SHEET 3 OF 4

INVENTORIED SIGNIFICANT VEGETATION

	Caliper (Inches)	Height (Feet)	Trans- plantable	Criteria	Disposition	Notes
arned	giea gigantea	, ,	•		<u> </u>	
106	7	16	Yes		PIP	2 arms, young crest
126		24	No	B: Size and Age	PIP	4 arms, 7° lean
132		18	Yes		PIP	2 arms
187		15	Yes		TOS	8 arms
189		16	Yes		TOS	5 arms
192		16	Yes		PIP	4 arms
208		18	No	B: Size and Age	PIP	3 arms
		18	Yes	B. Olze and Age	TOS	4 arms
214		19	Yes		TOS	4 arms
217		17	Yes		TOS	5 arms
218 Parkins	sonia florida,				103	3 airiis
162	12	12	· ,	B: Size and Age	TOC	
			No No lill Palo Verde	1	TOS	
	-	16		1	DEC	scald dropped limbs dishack
102	24	_	No	A: Health	RFS	scald, dropped limbs, dieback
103	24	15	No	A: Health	RFS	scald, dropped limbs, dieback
113	12	12	No	A: Health	RFS	scald, dropped limbs, dieback
115	32	16	No	B: Size and Age	PIP	Specimen
116	27	16	No	B: Size and Age	RFS	
121	19	18	No	B: Size and Age	RFS	
123	15	16	No	B: Size and Age	RFS	
127	13	12	No	B: Size and Age	RFS	
128	12	12	No	B: Size and Age	RFS	
130	14	15	No	B: Size and Age	RFS	
133	12	13	Yes		PIP	
141	14	12	No	A: Health	RFS	scald, dropped limbs, dieback
142	15	14	No	B: Size and Age	RFS	
143	12	14	No	A: Health	RFS	scald, dropped limbs, dieback
144	15	14	No	B: Size and Age	PIP	
146	16	14	No	A: Health	RFS	scald, dropped limbs, dieback
147	28	15	No	A: Health	RFS	scald, dropped limbs, dieback
148	20	18	No	A: Health	RFS	scald, dropped limbs, dieback
155	26	16	No	A: Health	RFS	scald, dropped limbs, dieback
156	14	13	No	B: Size and Age	RFS	7 11 7
157	28	17	No	B: Size and Age	RFS	
-	14	15	No	B: Size and Age	RFS	
158				+		
159	12	13	No	B: Size and Age	RFS	
161	12	15	No	B: Size and Age	PIP	
164	12	12	Yes	D. Cina and Ann	TOS	On a simon
165	22	16	No	B: Size and Age	PIP	Specimen
166	20	20	No	B: Size and Age	PIP	
167	16	12	No	A: Health	RFS	scald, dropped limbs, dieback
168	18	16	Yes		TOS	
169	20	18	No	A: Health	RFS	scald, dropped limbs, dieback
172	12	12	Yes		TOS	
177	12	13	Yes		TOS	
178	28	18	No	B: Size and Age	RFS	Specimen
179	13	15	Yes		TOS	
185	12	14	Yes		TOS	
186	20	13	No	B: Size and Age	RFS	
190	12	12	Yes		TOS	
191	18	13	No	B: Size and Age	PIP	
193	12	12	No	G: Form	RFS	
195	18	17	No	B: Size and Age	RFS	
197	15	16	No	A: Health	RFS	scald, dropped limbs, dieback
198	18	18	No	B: Size and Age	RFS	·· ·
199	12	13	No	G: Form	RFS	
200	27	18	No	B: Size and Age	RFS	
200	17	13	Yes	5.25 5.10 / 190	TOS	+
	13	14	No Yes	A: Health	RFS	scald, dropped limbs, dieback
202	20	14		B: Size and Age		Joans, Gropped Infibo, Globack
203			No	+	RFS	
204	17	13	No	B: Size and Age	RFS	coold dropped limbs dishest
205	19	14	No	A: Health	RFS	scald, dropped limbs, dieback
206	12	12	No	A: Health	RFS	scald, dropped limbs, dieback
207	14	13	No	A: Health	RFS	scald, dropped limbs, dieback
209	15	14	No	B: Size and Age	RFS	
210	27	16	No	B: Size and Age	RFS	
211	12	13	No	G: Form	RFS	
212	12	12	No	G: Form	RFS	
	15	17	No	B: Size and Age	RFS	
213	. •		 	D 0: 1 A	DID	
	14	13	No	B: Size and Age	PIP	
213		13 16	No No	B: Size and Age B: Size and Age	RFS	

ID	Caliper (Inches)	Height (Feet)	Trans- plantable	Criteria	Disposition	Notes
Prosop	ois velutina, V	/elvet Mesq	uite (PV)			
108	18	14	No	B: Size and Age	RFS	
114	19	13	No	B: Size and Age	RFS	
122	12	14	No	B: Size and Age	PIP	
124	22	15	No	B: Size and Age	PIP	
125	21	15	No	B: Size and Age	RFS	
129	14	12	No	B: Size and Age	RFS	
145	18	12	No	B: Size and Age	RFS	
163	24	14	No	A: Health	RFS	dropped limbs, dieback
170	12	12	No	B: Size and Age	RFS	
171	18	13	No	B: Size and Age	RFS	
174	18	15	No	B: Size and Age	PIP	
175	22	14	No	B: Size and Age	RFS	
176	13	12	No	B: Size and Age	PIP	
180	16	18	No	C: Spadeability	RFS	
181	24	12	No	B: Size and Age	PIP	
182	17	13	No	B: Size and Age	RFS	
183	20	12	No	B: Size and Age	RFS	
184	12	12	No	B: Size and Age	RFS	
188	12	12	No	B: Size and Age	RFS	
194	13	16	Yes		TOS	
196	15	13	No	B: Size and Age	RFS	
215	17	14	No	B: Size and Age	PIP	
Senega	alia greggii, C	Catclaw Aca	cia (SG)		•	•
117	12	12	No	B: Size and Age	RFS	
Vachel	lia constricta	, Whitethor	n Acacia (VC)		•	•
173	12	12	Yes		TOS	

94 out of 120 ID numbers are shown in this table due to grading limits changing between inventories.



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.

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



______ - PLANT TO BE PRESERVED IN PLACE SIGNIFICANT SAGUARO TO - EXISTING GRADE REMAIN IN PLACE TO REMAIN UNDISTURBED RADIUS OF TEMPORARY CHAIN LINK -FENCE, 6' H, SHALL BE PLANT INSTALLED PRIOR TO 10'-0" MIN GRADING AND SHALL - STEEL POST REMAIN IN PLACE UNTIL FINAL CLEAN-UP OF SITE - CHAIN LINK PRESERVATION 10'-0" MAX FENCING EXISTING GRADE TO -L_______ REMAIN UNCHANGED PLAN VIEW WITHIN 10' OF SAGUARO

NTS

1. Protective fencing detail for significant saguaro is provided on this sheet for reference. Refer to The Final Site Plan

for all site grading and grading details.

2. The existing grade within a 10' radius of plants to preserved in place shall remain in place - there will be no disturbance within this zone.

PROTECTIVE FENCING FOR SIGNIFICANT SAGUAROS (CARNEGIEA GIGANTEA) PRESERVED IN PLACE

Scale: 1/4" = 1'





jennifer@wilderla.com

Tucson, Arizona 85716 Jennifer Patton, 520-320-3936 Date: June 9, 2024 Designed By: Wilder Team; Checked By: JP REVISIONS: Rev. # Date Description

North Ridge Estates

INVENTORY TABLES + DETAILS

ORO VALLEY CASE #: 2302611

SHEET 4 OF 4

Portion of Section 35, Township 11S, Range 13E S.R.M., Town of Oro Valley, Pima County, Arizona

RELATED CASE #: 2203026