# **COB - BOSAIR FORM**

09/25/2025 12:19 PM (MST) Submitted by Martha.Guzman@pima.gov



# BOARD OF SUPERVISORS AGENDA ITEM REPORT (BOSAIR)

\*All fields are required. Enter N/A if not applicable. For number fields, enter 0 if not applicable.\*

Record Number:

Award Type: Agenda Item

Is a Board Meeting Date

Requested?

Yes

Requested Board Meeting Date: 10/14/2025

# Agenda Item Report

Record Number:

Title: Quarterly Report of Riparian Mitigation Plans Approved by the Regional Flood

Control District Chief Engineer

Introduction / Background: Section 16.30.050(B) of the Floodplain Management Ordinance requires:

"The Chief Engineer shall provide a quarterly report to the Board that states the number of Riparian Habitat Mitigation Plans that the Chief Engineer approved during the previous quarter. The quarterly report must include the number of approved plans that used mitigation banking and the number of approved plans that disturbed

more than 5% of Important Riparian Area on a property."

During its November 7, 2023 meeting, the Board of Directors requested that District staff present the guarterly report on the Board's Consent Calendar and include in the

report a summary of the District's use of in-lieu fees during the quarter.

Discussion: n/a

Conclusion: n/a

Recommendation: This item is for the Board's information and no vote or discussion is requested.

Fiscal Impact: None

Support of Prosperity Initiative: C-S 2. Address Climate Resilience and Environmental Justice

Provide information that explains how this activity supports the selected Prosperity Initiative

The Riparian Habitat Mitigation Plan In-Lieu fee proposal addresses regulated Riparian Habitat loss by allocating funds towards conversation within Pima County.

Board of Supervisor District:

• 1
• 2
• 3
• 4
• 5

Department: Regional Flood Control District

Name: Irene Castillo

Telephone: 520-724-4689

Department Director Signature: Date: 9/25/2025

Deputy County Administrator Signature: \_

County Administrator Signature: \_



DATE: September 18, 2025

TO: Board of Directors Regional Flood Control District

SUBJECT:

Quarterly Report of Riparian Habitat Mitigation Plans Approved by the Pima County Regional

Flood Control District Chief Engineer for the Third Quarter of 2025

Section 16.30.050(B) of the Floodplain Management Ordinance to requires:

"The chief engineer shall provide a quarterly report to the board that states the number of riparian habitat mitigation plans that the chief engineer approved during the previous quarter. The quarterly report must include the number of approved plans that used mitigation banking and the number of approved plans that disturbed more than 5% of important riparian area on a property."

I am submitting the following Quarterly Report of riparian mitigation plans approved during the third quarter of 2025. Attached are the riparian habitat mitigation plans as Exhibit A - E to the report. This report also includes a summary of the District's use of in-lieu fees during the quarter.

# Mitigation Plans Approved by the Chief Engineer for the Third Quarter of 2025

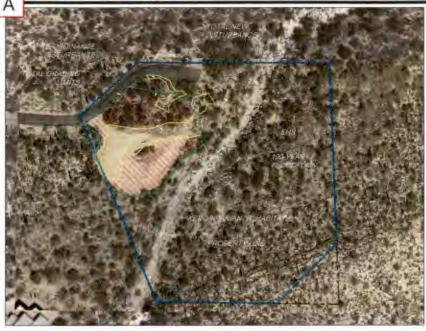
Approval	District Record		Location	Disturbance Amount (ac)	On-site Mitigation	IRA Disturbance	In-Lieu Fee	Exhibit
7/15/2025	4	P25FC00417	5452 N Avenida De la Colina	0.43	NO	NO	\$4,377.00	Α
8/5/2025	4	P25FC00184	Sycamore Vista Phase A	1.08	NO	NO	\$20,517.84	В
8/8/2025	4	P24TP00013	Vail Crossings	6.49	NO	NO	\$95,082.00	С
8/19/2025	4	P25TP00005	Rocking K, Neighborhood 7	0.93	NO	NO	\$10,130.50	D
9/11/2025	2	P25FC00496	17151 S Alvernon Wy	1.63	NO	YES	\$5,180.00	E

# Use of In-Lieu Fees During the Third Quarter of 2025

During the third quarter of 2025, the District spent or encumber approximately \$15,000 on restoration activities primarily on fencing of Cienega Creek Preserve, and on invasive species removal by the Tucson Bird Alliance.



PRE-ORDINANCE DISTURBANCE BASED ON 2005 AERIAL



POST-ORDINANCE DISTURBANCE BASED ON 2024 AERIAL

#### RIPARIAN LEGEND

Total Xeroriparian "B" Habitat on Site

Total Pre-Ordinance Xeroriparian "B" Habitet

Total New Xeroriparian "8" Habitat Disturbance **Total Grading Limit** 

## GENERAL NOTES

- Zoning = SR Gross Site Area = 162,178 of (3.72 acres)
- Land Use = Residential
- Any changes in grading limits or development layout must be submitted to the Planning Department to determine if a revised plan will be required
- 5. Area Calculations:
  - Gross Site Area = 162,178 et (3,72 acres)
- Total area graded = 26,715 sf (0.61 acres)
  Total Natural Undisturbed Open Space (NUOS)
- = 135,462 sf (3,11 acres)
- Total riperion habitat on site = 156.401 sf (3.59 acres)
- Total proposed riparien habitat disturbance = 18,531 sf (0.43 acres)

## RIPARIAN METHODOLOGY

- A Riperian Habitat Mitigation Plan (RHMP) was prepared for anticipated new home construction in February of 2022. This RHMP was approved by the Flood Control District.
- in articipation of construction, soil was placed on the property. This grading was not permitted in advance, resulting in a violation. GRS prepared a plan showing the removal of the soil. This was approved by
- Pima County Development Services in 2024.

  The anticipated home construction did not move forward at that time.
- The property was sold and the new owner has prepared plans for a new
- This plan is a revised RHMP showing the anticipated disturbance.
- Because the previously approved RHMP included Pre-Ordinance (grandfathered) Disturbance, the area of the Pre-Ordinance Disturbance lying within the current disturbance has been subtracted from the total
- current disturbance.
  The resulting disturbance area requiring mitigation is 0.43 acres and requires mitigation. The Owner wishes to provide mitigation via the In Lieu Fee Calculation. (See below for calculations.)
- 8. This Riparian Habitat Disturbance Exhibit documents the mapping and

#### RIPARIAN IN LIEU FEE NOTES

- Total Disturbance of the site since 2005 is 18,531 of or 0.43 acres. Per the Flat Fee Calculation, Xeroriparian "B" disturbance
- is calculated at \$10,178 per acre.
- 3. \$10,178 per acre x 0.43 acres = \$4,376,54 for disturbance on this property.





35974 S. Desert Sun Drive Tucson, AZ 85739 (520) 909-4678 gregs@gralandscapearchitects.com

7/14/25 Design Review
Construction Deck Drawn by LMW @ Agency Bubmittel GRS D Not for Construction

5452 N AVENIDA DE LA COLINA

North

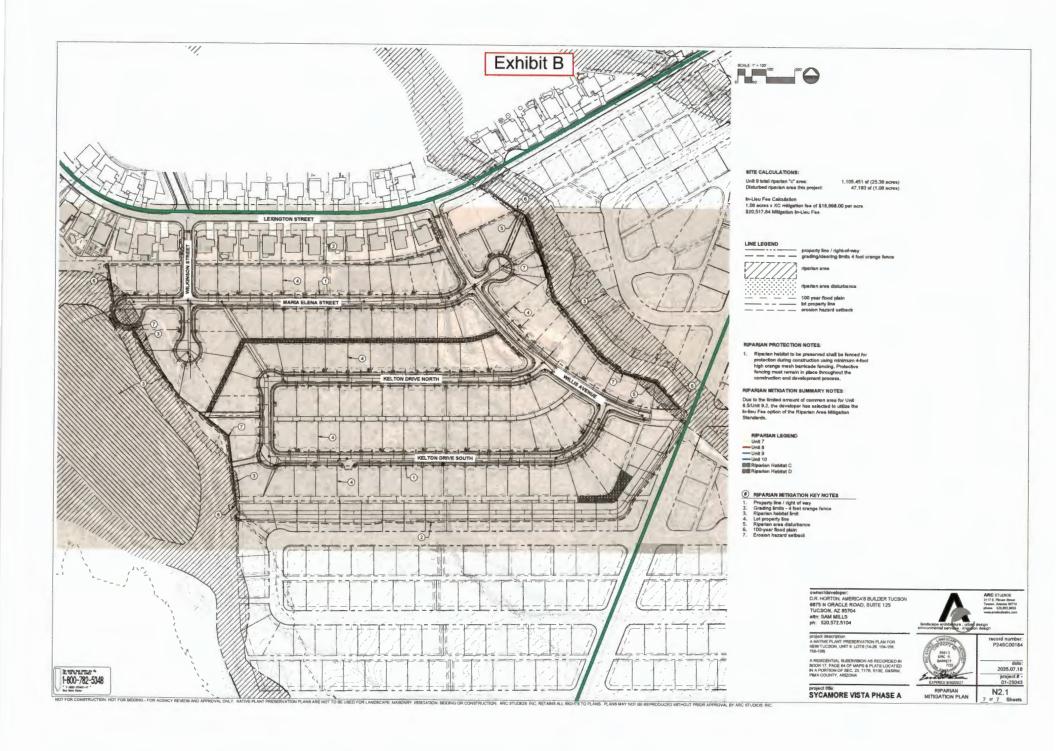
Scale: 1" = 50'

0' 25' 50' 100' 150'

5452 N Avenida de la Colina, Tucson, AZ 85749 A Portion of Section 13, T-13-8, R-15-E G&SRM, Pima County, AZ RIPARIAN HABITAT MITIGATION PLAN

RHMP-1 1 a1





RIPARIAN ASSESSMENT PLANS





**ENLARGEMENT AREAS FOR RIPARIAN** DISTURBANCE, SEE SHEETS 2-4



RIPARIAN XC DISTURBANCE



RIPARIAN XD DISTURBANCE





Exhibit C

SHEETS

SHEET 1 COVER SHEET

RIPARIAN DISTURBANCE ENLARGEMENT AREAS

LOCATION MAP PORTIONS OF SECTIONS 27 & 34 T-16-S. R-16-E.

PIMA COUNTY, ARIZONA



SCALE: J'- 1 HEE

PROJECT OVERVIEW

THE PROJECT IS A PROPOSED RESIDENTIAL DEVELOPMENT IN VAIL ARIZONA LOCATED OFF OF SUCCESS DRIVE. THIS RIPAR AN ASSESSMENT IS FOR THE RESIDENTIAL AREAS ONLY AND DOES NOT INCLUDE AREAS DESIGNATED AS FUTURE COMMERCIAL PROPERTY

VEGETATION WITHIN THE PROJECT AREA IS CHARACTERIZED AS THE ARIZONA UPLAND SUBDIVISION OF THE SONORAN DESERT SCRUB BIOTIC COMMUNITY, WHICH CONTAINS ELEMENTS OF THE LOWER COLORADO RIVER VALLEY SERIES (BROWN AND LOWE 1980, THE NATURE CONSERVANCY 2012. TURNER AND BROWN 1982), THE MAJORITY OF THE PROJECTS VEGETATION CONSISTS OF A MIX OF OCCITILD (FOUGUERIA SPLENDENS): BARREL CACTUS (FEROCACTUS WISS IZENI) AND CREOSOTE BUSH (LARREA TRIDENTATA). OTHER COMMON PLANT SPECIES INCLUDE VELVET MESQUITE (PROSOPIS VELUTINA), BLUE PALOVERDE (PARKINSONIA FLORIDA), SOAPTREE YUCCA (YUCCA ELATA) AND SOME NEEDLE SPINE

RIPARIAN HABITAT ASSOCIATED WITH EPHEMERAL DRAINAGES THAT CROSS THE PROPOSED SITES ARE TYPICALLY DOMINATED BY SPECIES FOUND IN ADJACENT UPLAND HABITATS, ALTHOUGH THE PLANTS OFTEN OCCUR IN GREATER DENSITIES AND ARE LARGER THAN INDIVIDUALS FOUND IN THE ADJACENT UPLANDS THESE XERORIPARIAN HABITATS SUPPORT RELATIVELY DENSE VEGETATION SUCH AS BLUE PALOVERDE, DESERT HACKBERRY, CATCLAW ACACIA, WHITETHORN ACACIA, AND DESERT BROOM CANYON RAGWEED AND CHEESEBUSH ARE ALSO ASSOCIATED WITH XERORIPARIAN HABITATS THERE ARE NO PERENNIAL AQUATIC, HYDRORIPARIAN, OR MESORIPARIAN HABITATS WITHIN THE PROJECT LIMITS

DUE TO THE NATURE OF THE PROJECT, IT IS IMPOSSIBLE TO AVOID IMPACTS TO ALL RIPARIAN HABITAT WITHIN THE PROJECT LIMITS.
ENLARGEMENTS OF IMPACTED RIPARIAN HABITAT ARE SHOWN ON THIS PLAN SET. THESE IMPACTED AREAS FALL WITHIN RIPARIAN CATEGORIZED. ENLANGEMENT OF HIMPALIED HIMPANIED HOLD AND ARE SHOWN ON THE ENLANGEMENTS ON THE FOLLOWING PAGES, MAPPED RIPARUM BOUNDARIES AND CLASS ASSOCIATIONS REFLECT CHANGES PER THE RIPARIAN HABITAT MODIFICATION PLANS PREPARED BY NOVAK ENVIRONMENTAL FOR THE SUCCESS DRIVE PARCEL.

THE IN LIEU FEE APPROACH TO MITIGATE FOR IMPACTS TO THIS RIPARIAN HARITAT WILL BE LITTLIZED AND CALCULATIONS PROVIDED ON THIS THE IN LIEU YEE PROPERTY OF THE MATTER FOR THE MATTER SEED MIX FOLLOWING CONSTRUCTION. THE MIX AND SPECIFICATION FOR SEED IMPACTED AREAS WILL ALSO BE SEEDED WITH A NATIVE SEED MIX FOLLOWING CONSTRUCTION. THE MIX AND SPECIFICATION FOR SEEDING WILL BE INCLUDED IN THE NATIVE PLANT SALVAGE PLANS.

PROTECTION OF UNDISTURBED REGULATED RIPARIAN HABITAT

REPARAM HABITAT TO BE PRESERVED SHALL BE FENCED FOR PROTECTION DURING CONSTRUCTION USING MINIMUM 4-FOOT HIGH ORANGE MEZIN BARRICADE FENCING. PROTECTIVE FENCING MUST REMAIN IN PLACE THROUGHOUT THE CONSTRUCT ON AND DEVELOPMENT PROCESS.

TO COMPENSATE FOR DISTURBANCE TO REGULATED RIPARIAN HABITAT (RRH) THE IN-LIEU FEE (ILF) OPTION HAS BEEN CHOSEN IN-LIEU OF ONSITE MITIGATION. FEE CALCULATIONS WERE PREPARED USING THE ILF DEVELOPMENT PROJECT FLAT FEE TABLE (TABLE 2) IN THE RTH COST PER AGREE FOR XC DISTURBANCE FOR DEVELOPMENT IS USING AS \$105,00. THE COST PER ACRE FOR XD DISTURBANCE FOR DEVELOPMENT IS USTED AS \$13,600

#### IN-LIEU FEE CALCULATIONS

### COMMERCIAL

DISTURBANCE AREAS C SHOWN ON THESE PLANS TOTAL IN 4.2 ACRES OF XC XERORIPARIAN C HABITAT THAT WILL BE DISTURBED DURING CONSTRUCTION FEE PER ACRE IS \$16,100 \$18 100 X 4 20 = \$67 620

DISTURBANCE AREAS D.E SHOWN ON THESE PLANS TOTAL IN .51 ACRES OF XD XERORIPARIAN D HABITAT THAT WILL BE DISTURBED DURING CONSTRUCTION (12,150.51 + 10,130.45 = 22,280.98 OR .51 ACRES) FEE PER ACRE IS \$13,800 \$13,800 X .51 = \$7,038

## RESIDENTIAL

DISTURBANCE AREAS A, B SHOWN ON THESE PLANS TOTAL IN 1.48 ACRES OF XD XERORIPARIAN D HABITAT THAT WILL BE DISTURBED DURING CONSTRUCTION. (26,617.42 + 37897.22 = 64,514.64 OR 1.48 ACRES) FEE PER ACRE IS \$13,800 13 800 X 1 48 = \$20 424

TOTAL FEE:

\$87,620 + \$7,038 + \$20,424 = \$95,082

TEAM

WestLand

VAIL CROSSINGS - SUCCESS DRIVE COMMERCIAL & RESIDENTIAL PARCELS RIPARIAN ASSESSMENT COVER SHEET



SHEET NO.





PARCEL I

Exhibit D

LOCATION MAP Scale: 3" = 1 Mile
Portions of Sections 27, 7
15 S, R 18 E, GESRM, PM
COUNTY, ARZONA





PLANT INVENTORY LIST

		Celigne		Height	In-elfu		Premplant				NOR AR PEAST CRITISES
LDA	Bolanical Harre	leches	Trunk	Feet	Visbility	Hotes	Rating	PIP TO	A PER	A	HEALTH: plant is not in good health, is
	1 Perturments Asiorophyllum		γ		6	AC	L		RFS	"	diseased, or would not be in-situ in five
	Prosopie velutine	7	86		1.	AC	L		RFS.	_	years' time
	5 Prosopis velutina	4	16		M		96		FFFB	B	SEZE: plant is of a size that losing up to
	t Pronopiis valutifra		10		M		19		RFS		1/4th of its mass to pruning would be
	7 Prosopie woutins	7	٧		L	ACG	L		RFS		
	Prosopie wildens	7	٧		L	AC	L		RFS		unsurvivable, OR is so big that it couldn't
	Presopie velutina		Y	7	L.	AC	L		RFS	1	be Enably transplanted by typical
	Prosopis vitulina	7	¥	5	L.	AC	L		RF8		industry standard methods.
	5 Prosopie wilutana	8.	Y		í.	AC	1		RFS	C	
	8 Prosopia valutima		Ψ	5	í.	AG	16		RFS		
	Prosopia velutitia	7	Y		L	AC	M		FF'8		broken limbs, or vaible decay.
	Prosopie velulana		¥		i.	AC	L.		RFB.	D	SOIL: nearby area has visible
	1 Prosopis velulina	9	¥	6	L	AC	L		RF 8	1	boulders/large rocks, or is of a type that
	7 Prosopia velulava	9	Y	7	L	AC	L		FF 8	ı	
4	Prosopie velutina	94	٧	18	L	ABCG	L		RFB	1	could not be excavated to support a root
	7 Prosupis velutino	15	Y	18	l.	ABOS	i.		<b>RFS</b>		system.
	Prosopre valutino	7	Y		L.	AC	l.		FFB	E	TERRAIN: plant is not accessible by
4	Prosopie velulava	94	Y	10	L.	ABC	6.		FIFS	1 "	equipment needed to excavate and safety
54	7 Prosopie velutava		Y	7	L.	AC	L		RF5	1	
5	† Prosopie velutana	5	¥	5	6.	AC	16		<b>FIFS</b>	_	transplant it.
50	2 Presopie velutine		Y	7	L	AC	L		FFS	F	
5	Prosopis velutina	7	90	5	L	AC	L		RFS.		PLANT INTERFERENCE: plest, and
96	Prosopis valutina	8	10	10	L	AC	L		RFS.	1	its root system, have major entanglement
5	7 Partineonia mecrophyllum	10	¥	13	L	ABC	L		RFB		with other resurby plants that would
84	Prosopis vehitate	10	¥		L	AC	86		RFS.	1	interfere with being transplanted
- 01	Personageis recognystum		¥	7	L.	AC	L		FF5		secrete was own maps and
6	4 Prosogns valuative	7	10	7	i.	AC	Ĺ.		RFB.	G	CHARACTER: plant does not
- 60	Parkingonia respisativiture	13	Y	10	i.	ARC	Ł		RES	1 0	exemplify the ideal characteristics of a
7	Prosops velution		96	10	i.	ARC	L		RES		
7	Presions whitee	7	¥	- 0	Ĭ.	ACC	L		REB		member of its species
T	Prosope winting	7	¥	9	i.	AC	10		RFS.	-	
	Premopts velutions		v	7	i.	AC	M		RF8		
-	Presope whites		v	7	i.	AC	86		F#'S		
	Prosome valuates	9	Y	7	i.	AC	L		RFS		
	Presons whene	12	Ÿ	7	i.	AC	L		RFS.		

GENERAL NOTES:

1. This is a 0.93 ocre (40,610 sq ft) site within Pirra Count'y's jurisdiction and utilizes an alternative In-Seu fee method for mapped riparion habitat area misligation.

Existing tree density on this lot is 49 trees/acre, substantially lower than the durality typically standard to mapped riparion areas.

In-Lieu fee is calculated based on total of disturbed trees and area, due to being mapped xerariparian habitot area.

IN-LIEU FEE CALCULATIONS

Item	QTY	Uni	t cost	Total Cost		
Trees	46	\$	100.00	\$	4,600.00	
Seeding (40,610 SF)	40,610	\$	0.05	\$	2,030.50	
Irrigation	1	\$	1,000.00	\$	1,000.00	
Monitoring/Maintenance (5 years)	5	\$	500.00	\$	2,500.00	
Total ILF payed to PCRFCD				\$	10,130.50	

DP205-95-023A



Novak Environmental, Inc. 674 North First Avenue 6100 + Tucson, AZ 65710 Premo 520,206,0561 Fax 529,802,3000

> TENTATIVE PLAT ALTERNATIVE IN-LIEU FEE PLAN ROCKING K NEIGHBORHOOD 7

AUGUST 2025 25038 SEE PLAN



PARCEL T LIVITS

SROCKING TRANCHID

MITIGATION KEY

RIPARIAN HABITAT

S INVENTORIED NATIVE PLANT NUMBER

W REMOVE FROM SITE NATIVE PLANT

TRANSPLANT ON SITE NATIVE PLANT

XERORIPARIAN - C

# Exhibit E



2005 PIMA MAPS AERIAL



2024 PIMA MAPS AERIAL



0' 25' 50' 100' 150'

Scale: 1" = 50'







Total IRA with Underlying Xeroriperien "C" on Site



Pre-Ordinance Disturbance Within the



New Disturbence to be Mitigated

#### RIPARIAN NOTES

- Gross 88e Area = 161,481 of (3.71 scres) Land Use = Residential
- Area Calculations:
- - a. Gross Site Area = 161,461 sf (3.71 sores)
  - b. Total STA with Underlying Xeroriperien "C" on Site = 84.190 of (1.93 acres)
  - 84,190 of (1,93 mcres)
  - Pre-Ordinance Disturbance Within the Greding Limit = 12,973 of (0.30 acres)
  - New Disturbance to be Mitigated = 71,217 of (1,63 acres)
- Miligation will be per in-lieu fees.

## RIPARIAN METHODOLOGY

- This property contained disturbance prior to the Ripsnian Ordinance. This disturbance has been mapped on a 2005 Annal and included on the plan. This total Pro-Companion Celeritance, located within the limes of this project, is 12,973 sf. The Total Disturbance does not show up on the 2024 senal. The entire operan area has been disturbed. Disturbence requiring mitigation is calculated as Total Disturbance minus Pre-Ordinance Disturbance where they overlap.
- While the ordire riperien area has been impacted, there are significant
- While the vertice (parties area hes been implicable, there are significant quantities of these and shutch strendings) in place. These here been inventioned and are shown on the glass. Special militaginal was calculated of the quantities for Xenrisperian C place 50%. The assisting these and shutch water substrated from the intelligibility quantities and that quantities are for the calculation of an in Lisu Fee (LEP). The also and surrounding sees certain to greece are defininged by photo. Therefore no greace was order included in the ILF disclaration, and the problem. Therefore no greate was over included in the ILF disclaration, and the problem.
- The owner proposes to provide mitigation via an In-Lieu-Fee (ILF). An In-Lieu-Fee Calculation has been provided based on the combination of field conditions and inventory.

# CALCULATIONS

This site contains IRA with Underlying Xeroriperian "C"

Total Regulated Riparian Habitat On-Site

Total Limit of Disturbance (2024 Aerial) = 84,190 St (1.93 ac) Pre-Cirdwance Disturbance Within the Grading Limit 12,973 St (0,30 ac) (2005 Aerial) =

New Disturbance to be Mitigated = 71,217 St (1.63 ac)

Total # of Shrubs Required = 1.5 x 1.63 x 70 =

Min. Mitigation Area Required = 1.5 x 1.63 x 0.7 = 74,778 Sf(1.72 ec) Total # of Trees Required = 1.5 x 1.63 x 45 = 110 Trees

84 190 St (1.93 acres)

Total Riparian Mitigation Area Required = 74,778 8f(1.72 ac) Total Riperian Mitigation Area Provided on Site = (0.00 ac) Total Ripertan Mitigation Area Provided by In Lieu Fee a (0.00 ac) Total III of Trees Required # 1.5 x 1.63 x 45 # 110 Trees Total Trees Provided on Site = 68 Trees

Total Trees Provided by in Seu fee o 42 Trees Total # of Shrube Required • 1.5 x 1.63 x 70 = 172 Shrubs Total Shrubs Provided on Site = Total Shrubs Provided by In Lieu Fee = 86 Shrubs 56 Shrubs Total Hydroseed Required = (0.00 ac

Total Hydroseed Provided on Site (see Note 1, below) = (0.00 ac) Total Hydroseed Provided by In Lieu Fee = Note 1 -No grasses are found in adjacent, similar riperium areas (see photos), so no hydroseed is provided.

RIPARIAN IN LIEU FEE NOTES

The site contains IRA Class C Riparian Habitat The Owner wishes to provide mitigation via the in Lieu Fee Calculation.

1. Total Ground Plain Disturbance

Per the photos provided, this area does not contain grasses, so no mitigation

68 Trees remain within the disturbed area. This means 42 trees are required per the calculations. The tree cost is \$71.50 (everage cost for 15 gal and 5 gel trees).

71.50 x 42

86 Shrubs remain within the disturbed area. This means 86 trees are required per the calculations. The shrub cost is \$19.50 (everage cost for 5 get and 1 gel shrubs).

Maintenance cost for 5 years is calculated at \$100.00 per year. \$500.00

Water Cost

Because the property is on a well, water costs were calculated at \$0.00 per \$0,00

Total In Lieu Fee \$5,180.00

SYMBOL KEY



## REDONDO RESIDENCE

17151 S ALVERNON WAY, SAHUARITA, AZ 65629 G&SRM, Pima County, AZ

RIPARIAN HABITAT MITIGATION PLAN

RHMP-1 1=2



GRS 35974 S. Debent Tucson, AZ 85739 (520) 909-4678 35974 S. Desert Sun Drive WORKNE WONTECTALLC grege@gretandacapearchitecta.com

Drawn by