



BOARD OF SUPERVISORS AGENDA ITEM REPORT

Requested Board Meeting Date: April 3, 2018

Title: Approval of a Riparian Habitat Mitigation Plan Located at 2457 N. Mesquite Thicket Court (District 4)

Introduction/Background:

Chapter 16.30 of the Pima County Floodplain Management Ordinance No. 2010-FC5 (Ordinance) requires mitigation for disturbance of Regulated Riparian Habitat (RRH) exceeding 1/3 of an acre. A riparian habitat mitigation plan (RHMP) approved by the Flood Control District Board of Directors (Board) is required for disturbance of Hydroriparian habitat exceeding 1/3 of an acre and that exceeds 5 percent of the habitat on the property. The adopted *Regulated Riparian Habitat Mitigation Standards and Implementation Guidelines (Guidelines)* govern the type, amount, and location of required mitigation.

Discussion:

The owners, Oran and Marjorie Robinson, are applying for a floodplain use permit to construct a single family residence on the property located at 2457 North Mesquite Thicket Court. The property is mapped within RRH classified as Hydroriparian Habitat. Upon review of the floodplain use permit, staff determined that portions of the understory of the RRH had been previously disturbed over a period of several years. The disturbance from proposed construction and the previous disturbance exceeds the 1/3 acre threshold, therefore an RHMP is required. Since the trees were not removed by the previous disturbance or the construction the applicant is mitigating by planting shrubs and an approved native seed mix.

Conclusion:

Acceptance of the on-site Riparian Habitat Mitigation Plan allows for the disturbed riparian habitat to re-establish to a healthy valuable resource that supports the natural function of floodplains.

Recommendation:

The RHMP conforms to the Ordinance and the *Guidelines* and, as such, the District recommends approval.

Fiscal Impact:

n/a

Board of Supervisor District:

1 2 3 4 5 All

Department: Regional Flood Control District Telephone: 724-4600

Contact: Suzanne Shields, P.E. Telephone: 724-4600

Department Director Signature/Date: *Suzanne Shields*

Deputy County Administrator Signature/Date: *[Signature]* 3/13/18

County Administrator Signature/Date: *C. R. Bullock* 3/14/18

DATE: March 9, 2018

TO: Flood Control District Board of Directors

FROM: Suzanne Shields, P.E.
Director

SUBJECT: Approval of a Riparian Habitat Mitigation Plan Located at 2457 North Mesquite Thicket Court (District 4)

Background

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Report

The owners, Oran and Marjorie Robinson, are applying for a floodplain use permit to construct a single family residence on the property located at 2457 North Mesquite Thicket Court (Exhibit A). The property is mapped within Regulated Riparian Habitat (RRH) classified as Hydroriparian Habitat (Exhibit B). Upon review of the floodplain use permit, staff determined that portions of the understory of the RRH had been previously disturbed over a period of several years. The disturbance from proposed construction and the previous disturbance exceeds the 1/3 acre threshold, therefore an RHMP is required. The total RRH disturbance for this property is 19,518 square feet (0.45acres). Since the trees were not removed by the previous disturbance or the proposed construction the applicant is mitigating by planting shrubs and broadcasting an approved native seed mix.

With assistance from the District, Mr. Bob O'Brien with RSO Designs prepared an RHMP (Exhibit C) that met the *Guidelines*. All onsite mitigation planting will occur per the RHMP, which shows the type, number, and planting location of the vegetation that will compensate for riparian disturbance. The mitigation areas are located within existing RRH and within disturbed areas on the property that have the space to support new plantings. Any future development will require submittal of a separate mitigation plan.

Recommendation

The RHMP conforms to the Ordinance and the *Guidelines*, and, as such, the District recommends approval.

Exhibit A – Project Location

Exhibit B – Project Site – Riparian Classification Map

Exhibit C – Riparian Habitat Mitigation Plan

Exhibit A



Oran J R & Marjorie A. Robinson
2457 N. Mesquite Thicket Ct.
BOS Meeting Date 4/3/18



Exhibit B

Hydromesoriparian Habitat

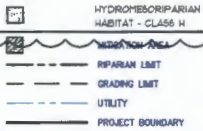
Subject Property

Oran J R & Marjorie A. Robinson
2457 N. Mesquite Thicket Ct.
BOS Meeting Date 4/3/18



Exhibit C

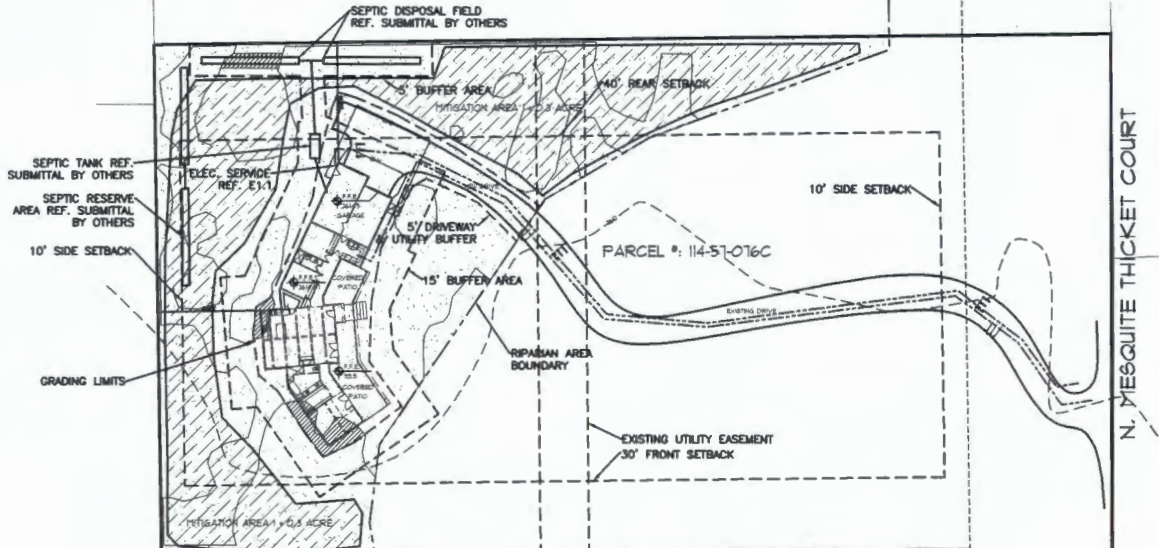
LEGEND:



GENERAL NOTES:

1. MITIGATED AREA WILL BE HYDROSEEDED WITH A MINIMUM OF 12 SPECIES FROM THE APPROVED HYDRORIPARIAN PLANT LIST FOUND IN APPENDIX A OF THE "REGULATED RIPARIAN HABITAT MITIGATION STANDARDS AND IMPLEMENTATION GUIDELINES." IF PLANT SPECIES LISTED ON THE MITIGATION PLAN ARE UNAVAILABLE, REPLACEMENT SPECIES FROM THE APPROVED PLANT LIST MAY BE SELECTED BASED UPON AVAILABILITY. OF THE 12 SPECIES, 4 SHALL BE SHRUBS, 4 SHALL BE ANNUALS/PERENNIALS/VINES, AND 4 SHALL BE GRASSES.
2. MITIGATION PLANTINGS TO BE IRRIGATED USING AN AUTOMATIC DRIP IRRIGATION SYSTEM.
3. MITIGATION PLAN IMPLEMENTATION SHALL BE COMPLETED BY THE FIRST GROWING SEASON FOLLOWING COMPLETION OF CONSTRUCTION, WHICH IS PROJECTED TO BE MARCH-MAY, 2020.
4. A MONITORING PLAN, IN ACCORDANCE WITH THE GUIDELINES, WILL BE SUBMITTED ANNUALLY FOR A PERIOD OF FIVE (5) YEARS FOLLOWING IMPLEMENTATION OF THE MITIGATION PLAN. ANY CHANGES FROM THE APPROVED MITIGATION PLAN SHALL BE NOTED ON THE MONITORING PLAN SUBMITTAL.
MONITORING PLAN SHALL BE SUBMITTED TO THE RFD AT:
PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT
ATTN: FLOODPLAIN MGMT
301 NORTH STONE AVE 5TH FLOOR
TUCSON, ARIZONA, 85717
PLACE THE FRUP NUMBER ON THE ENVELOPE AND MONITORING PLAN SUBMITTAL.
5. THE PROJECT OWNER AND/OR THE OWNERS SUCCESSORS, AGREE TO PRESERVE AND PROTECT THE MITIGATION AREA FOR THE DURATION OF THE PROJECT. FURTHER, THE PROJECT OWNER AND/OR SUCCESSORS AGREE TO ACTIVELY MAINTAIN THE MITIGATION AREA FOR A PERIOD OF NOT LESS THAN FIVE (5) YEARS. MAINTENANCE ACTIVITIES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE REGULAR OPERATION OF THE IRRIGATION SYSTEM, THE REPLACEMENT OF DEAD TREES AND SHRUBS, AND THE REMOVAL OF NOXIOUS AND/OR INVASIVE PLANT SPECIES.
6. MITIGATION AREA(S) TO BE LEFT IN A NATURAL STATE. NO DISTURBANCE SHALL OCCUR WITHIN THE MITIGATION AREA(S) WITHOUT RFD REVIEW AND APPROVAL. SUCH DISTURBANCE INCLUDES BUT IS NOT LIMITED TO SECONDARY IMPACTS SUCH AS THE PRESENCE OF LIVESTOCK, FENCING, INTENSIVE LANDSCAPING, OUTDOOR PLAY AREAS, ETC.

NOTE:
NO TREES WITHIN THE RIPARIAN AREA ARE TO BE DISTURBED BEYOND MINOR TRIMMING



APPROVED SEED MIX SHALL INCLUDE:

Wildflower Renovation
2844 N. Cactus Ave.
Tucson, Arizona 85710
(520) 883-4888

Southeastern Arizona Grass Seed Mix 9 April 2017

- 20 *Bouteloua curtipendula* / *Richardson's Grass* "80 Run" 01728 / 89.75 / 19.25 / 01 / 01 / 0 / 8996 / 6017
- 18 *Bouteloua gracilis* / *Blue Grass* 088112 / 16.54 / 23.33 / 26 / 1662 / 0 / 8996 / 3017
- 4 *Bouteloua inebrians* / *Redstart Grass* 01526 / 94.63 / 5.57 / 0 / 014 / 8996 / 3017
- 12 *Lycopodium obscurum* / *Common Spangletop* 01727 / 98.89 / 1.94 / 01 / 03 / 0 / 8996 / 6017
- 28 *Phacelia grandiflora* / *Indian Blue* 01603 / 98.63 / 1.34 / 63.83 / 009 / 0 / 3017
- 7 *Schizanthus ananthus* / *Little Bluebonnet* 01717 / 68.82 / 30.16 / 01 / 04 / 0 / 8996 / 6017
- 6 *Sida acuminata* / *Flower Yellow* 01716 / 98.43 / 1.51 / 02 / 03 / 0 / 8996 / 3017
- 28 *Ipomoea spicata* / *Small-Flowered* 01715 / 98.57 / 0.43 / 0 / 0 / 8996 / 3017
- 2 *Vulpia microcomata* / *Small-Flowered* Panna 01632 / 99.84 / 0.32 / 0 / 01 / 8996 / 1017

No Weight This Bag 25 Lbs.

Permanence Services, Inc.
Thu Mar 12 2020 1:00pm

Order #1: Permanent Services
Order #2: Hydroseed + 4500

9:00 AM EST
4/15/20

TABLE OF RIPARIAN DISTURBANCE

TOTAL RIPARIAN AREA:	31,921 S.F.
0.73 ACRE	
TOTAL DISTURBANCE: (PREVIOUS + PROPOSED)	19,510 S.F.
PREVIOUS:	19,091 S.F.
PROPOSED:	421 S.F.

MITIGATION AREAS:

AREA	GRASS SEED MIX SHRUBS:	4 POUND
	BRITTLEBRUSH	5 GAL. QTY: 20
	DESERT HUCKLEBERRY	5 GAL. QTY: 20
	JOJOBA	5 GAL. QTY: 10

CALCULATIONS:

THIS SITE CONTAINS HYDRORIPARIAN / MESORIPARIAN (CLASS H) HABITAT
TOTAL REGULATED RIPARIAN HABITAT ON SITE: 0.73 ACRE
AREA OF DISTURBED REGULATED RIPARIAN HABITAT: 0.45 ACRE
AREA OF MITIGATIONS = 0.45 ACRES x 15 = 6.75 ACRE
TOTAL GRASS SEED MIX = 4 POUND

TREES:
NO TREES REMOVED OR DISTURBED - NO REHABILITATION NEEDED

SHRUBS:
50 SHRUBS BASED UPON 2016 IMAGERY AND LETTER DATED 3-5-16

GRASSES:
SOUTHEASTERN ARIZONA GRASS SEED MIX (86) SPECIES

RIPARIAN HABITAT MITIGATION PLAN:

PROPERTY OWNER: RT + MARGIE ROBINSON
PROPERTY ADDRESS: 2451 N. MESQUITE THicket
PARCEL TAX CODE: 114-51-016C
FRUP NO. P8FC00063

RIPARIAN HABITAT MITIGATION PLAN

SCALE: 1"=50'



3-1-18
REVISIONS
3-6-18 - CNTY COMMENTS

P.O. BOX 8170
TUCSON, ARIZONA 85738
520-462-6432
520-878-1017
mcclellan@pima.gov



ROBINSON RESIDENCE
2451 N. MESQUITE THicket
TUCSON, ARIZONA
RIPARIAN HABITAT MITIGATION PLAN