



***White Tanks FRS No.4  
Project Update***



## **Mission:**

Provide regional flood hazard identification, regulation, remediation, and education to Maricopa County residents so that they can reduce their risks of injury, death, and property damage from flooding, while still enjoying the natural and beneficial values served by floodplains.

# Meeting Agenda

- Project Description
- Recommended Alternatives
- Landscape Aesthetics and Multi-Use
- General Questions and Comments
- Adjourn to Open House

- White Tanks FRS No.4

## Project Objective:

- Correct deficiencies in White Tanks FRS No.4 to continue providing 100-year flood protection
- Determine the alignments and size of channels required to convey flood waters from the White Tank drainage area to the Gila River
- Provide channel designs that are consistent with the area drainage master plan (100-year flood protection)
- Develop landscape themes that are compatible with adjacent land uses
- Identify multiple use opportunities

- White Tanks FRS No.4

## Project Sponsors:

- Natural Resources Conservation Service (NRCS)
- Agua Fria – New River Natural Resource Conservation District
- Buckeye Valley Natural Resource Conservation District

# Project Area

- Extends 12 miles from White Tanks FRS No.3 (Bethany Home) to the Gila River
- Channel alignments are along Jackrabbit Trail and Tuthill Road



# Existing Conditions

## Jackrabbit Trail – WT FRS No.3 to I-10



Image 1 - Looking South - 3-cell box culvert at Meadowbrook Avenue



Image 2 - Typical residential home in the neighborhood



Image 3 - Looking South - Box culvert at Osborn Avenue



White Tanks FRS No. 4 to Indian School Road



Indian School Road to Interstate-10



Image 4 - Looking North - Existing grouted rip-rap channel below Osborn Road



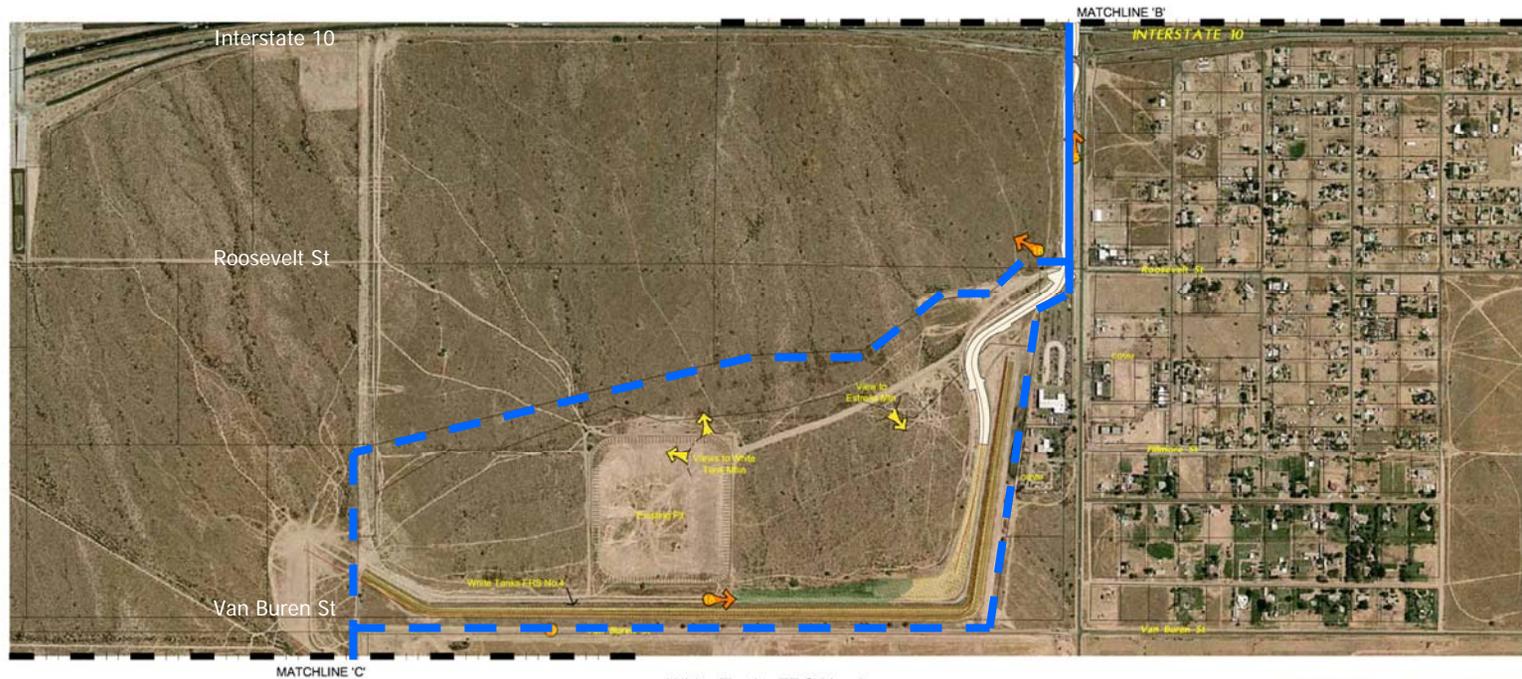
Image 5 - Looking South, beginning of existing concrete channel



Image 6 - Looking North - Existing concrete-lined channel and box-culvert passing beneath I-10

# Existing Conditions

## White Tanks FRS No.4



White Tanks FRS No. 4



Image 15 - Looking North from concrete lined channel to I-10 overpass



Image 16 - Looking West towards White Tank Mountain



Image 18 - Looking East along Flood Retarding Structure



Image 19 - Downstream face of White Tanks FRS No.4

# Existing Conditions

## Tuthill Road – WT FRS No.4 to Gila River



Image 20 - Looking South along existing ditch at the beginning of Tuthill Road



Image 21 - Looking South - Roosevelt Irrigation District Canal



Image 23 - Looking Southwest towards large electrical sub-station



Buckeye Irrigation District Canal to Gila River



Image 26 - Buckeye irrigation District Canal



Image 27 - South Dean drain East side of Airport Road



Image 29 - Looking South - Gila River Floodplain

# Recommended Alternatives

## Existing Dam – White Tanks FRS No.4

- Rehabilitation of existing dam
- Replacement with basin

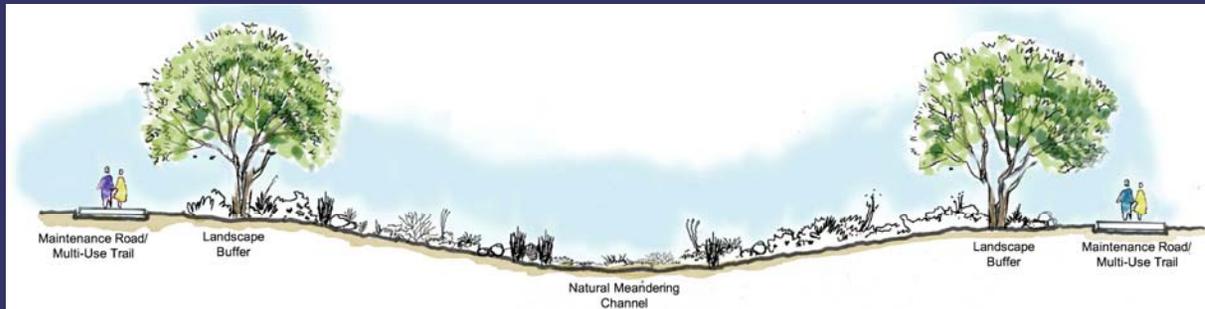
## Channel Alternatives

- 100-year flow

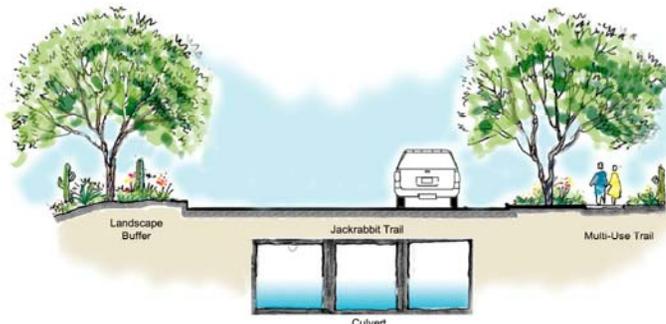
# Jackrabbit Trail Alternatives

WT FRS No.3 to Indian School Road

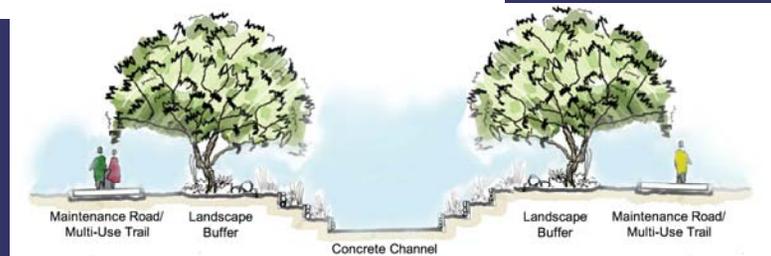
- Natural channel
- Underground box culvert
- Channel with aesthetic treatment



Natural channel



Underground box culvert

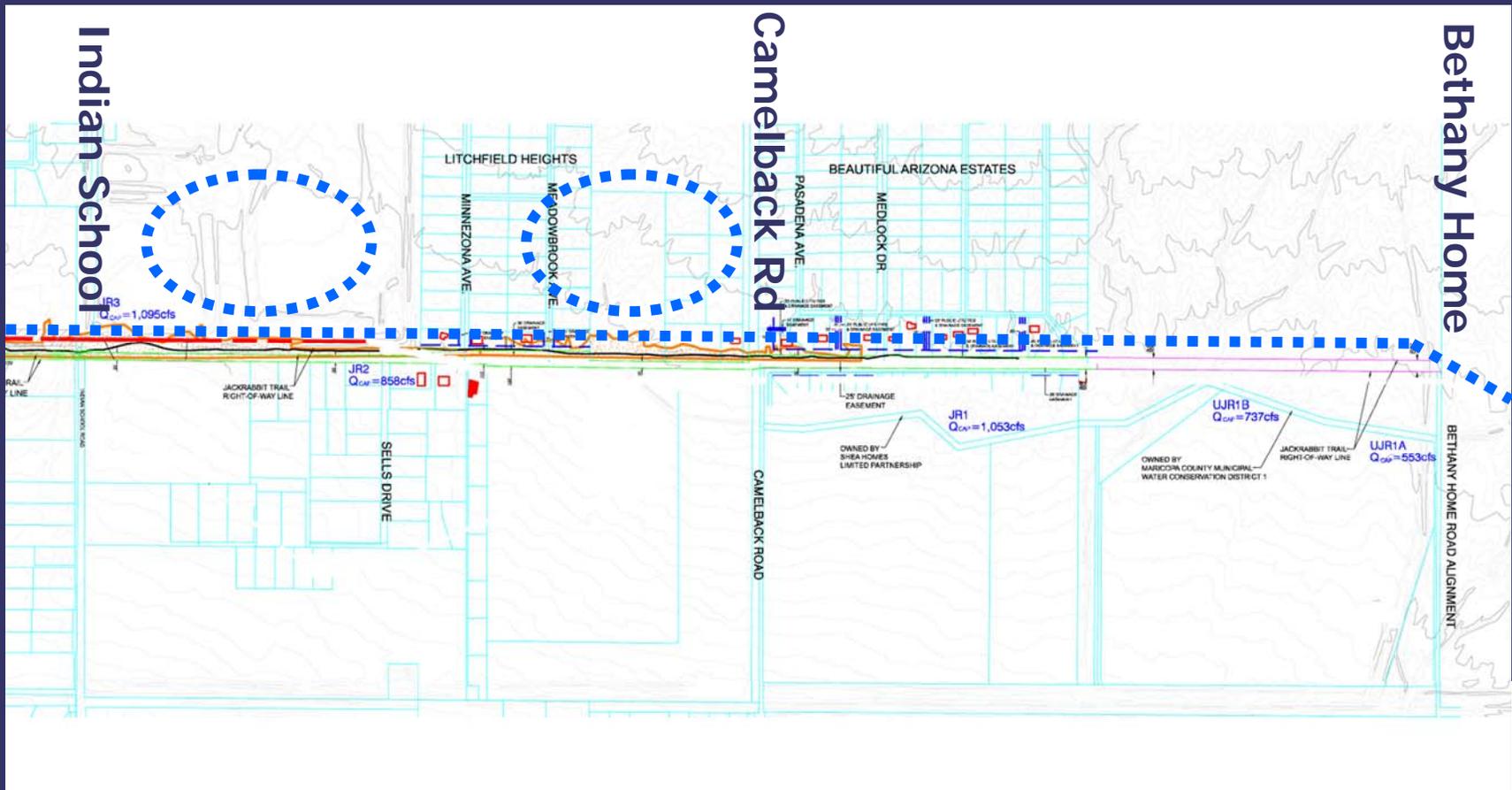


Channel with aesthetic treatment

# Jackrabbit Trail Alternatives

WT FRS No.3 to Indian School Road

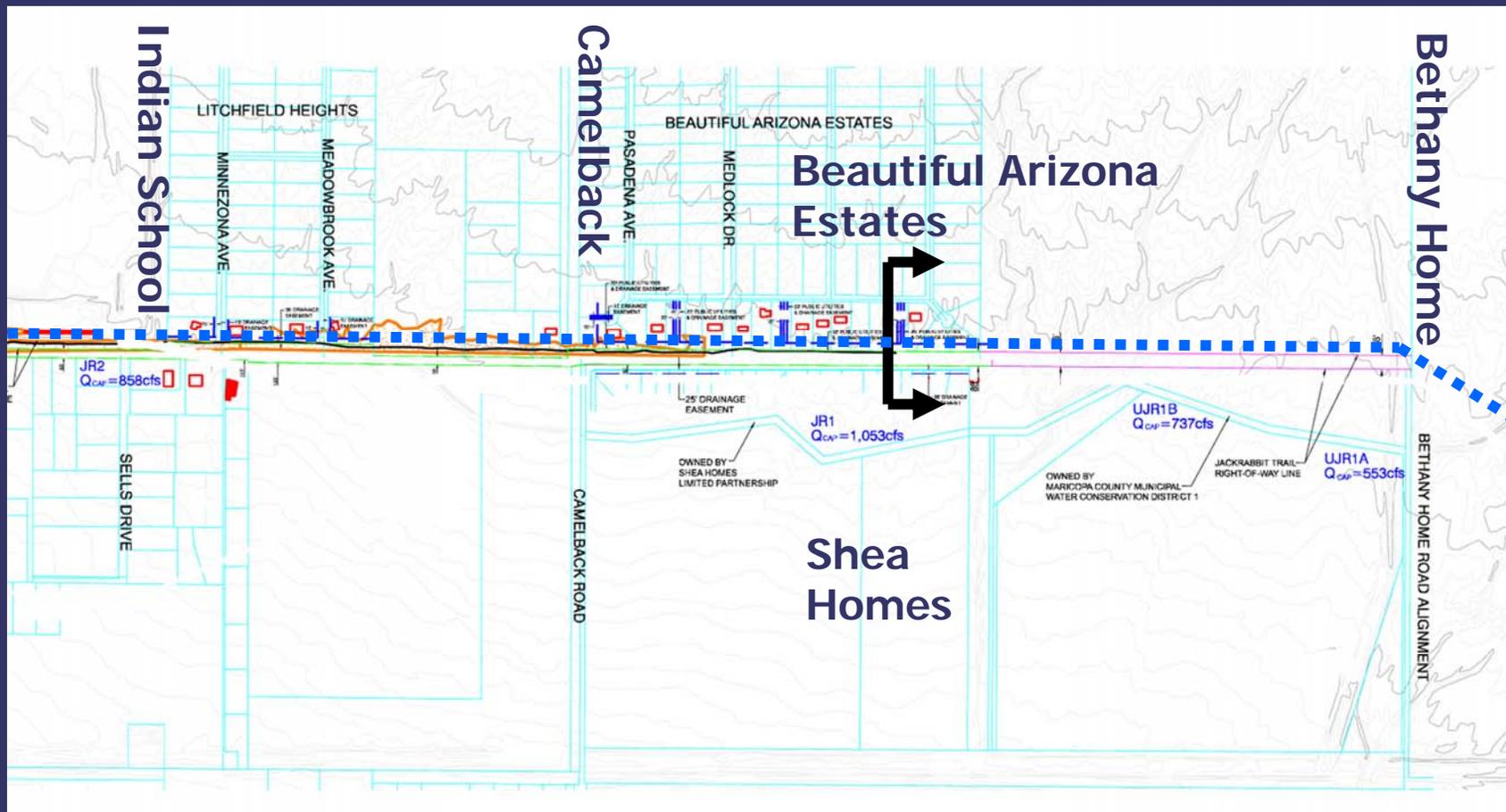
- 100-year flow requires a basin between Camelback Road and Indian School



# Jackrabbit Trail Alternatives

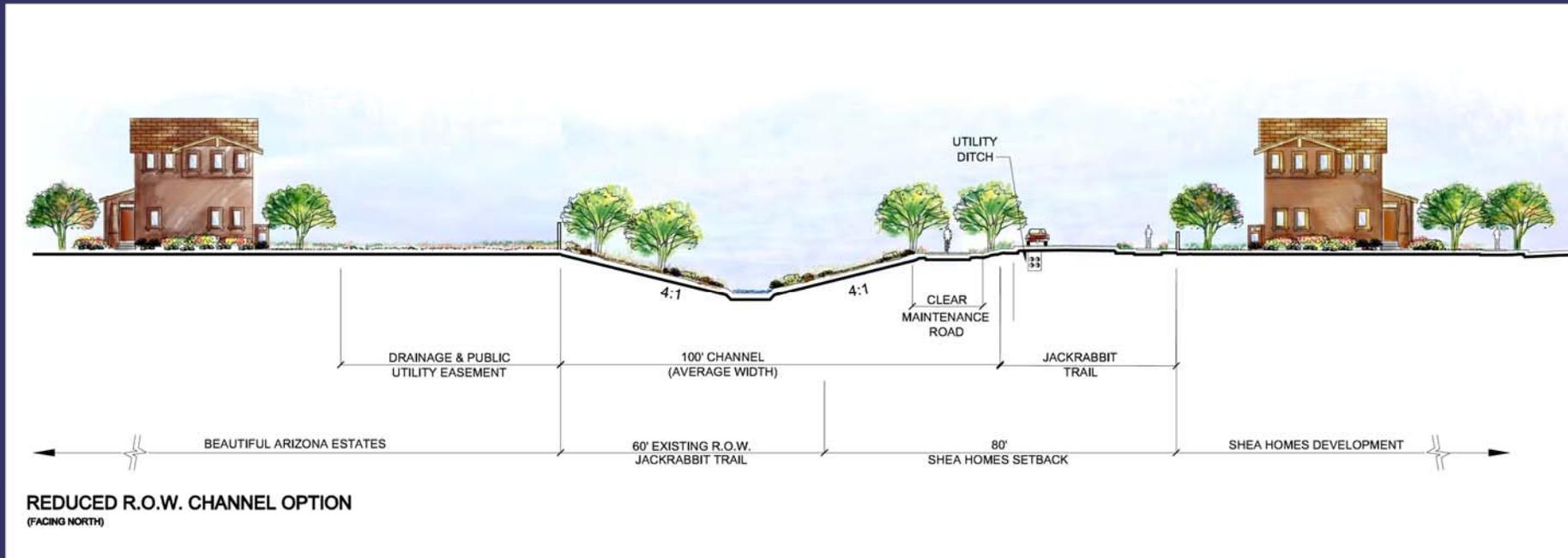
WT FRS No.3 to Indian School Road

- Typical section between Beautiful Arizona and Shea Homes developments



# Jackrabbit Trail Alternatives

WT FRS No.3 to Indian School Road

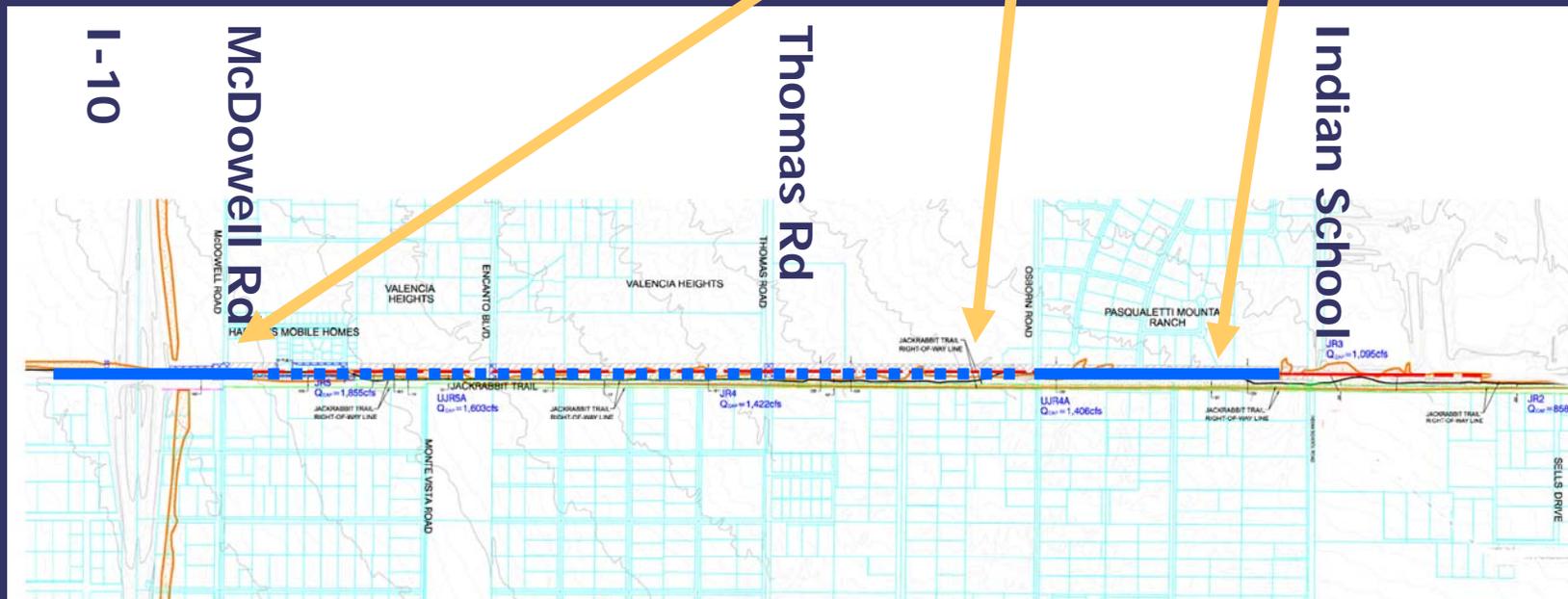


100-year flow Natural channel

# Jackrabbit Trail Alternatives

Indian School to WT FRS No.4

- Existing Soft Structural Channel
- Existing 'District' R.O.W.
- Existing Concrete Channel



# Jackrabbit Trail Alternatives

Indian School to WT FRS No.4



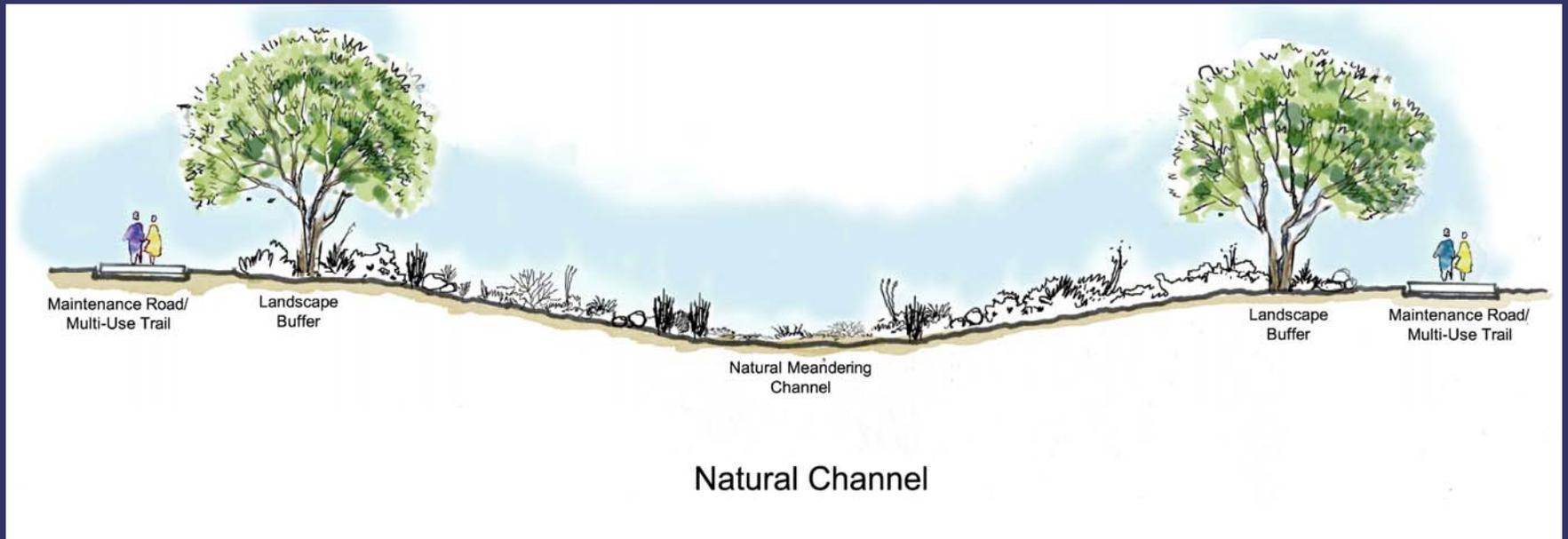
**Existing Natural Channel**  
**South of Indian School Road**



**Existing Concrete Channel**  
**North of I-10**

# Jackrabbit Trail Alternatives

Indian School to WT FRS No.4



# WT FRS No.4 Alternatives

## Basin Alternatives

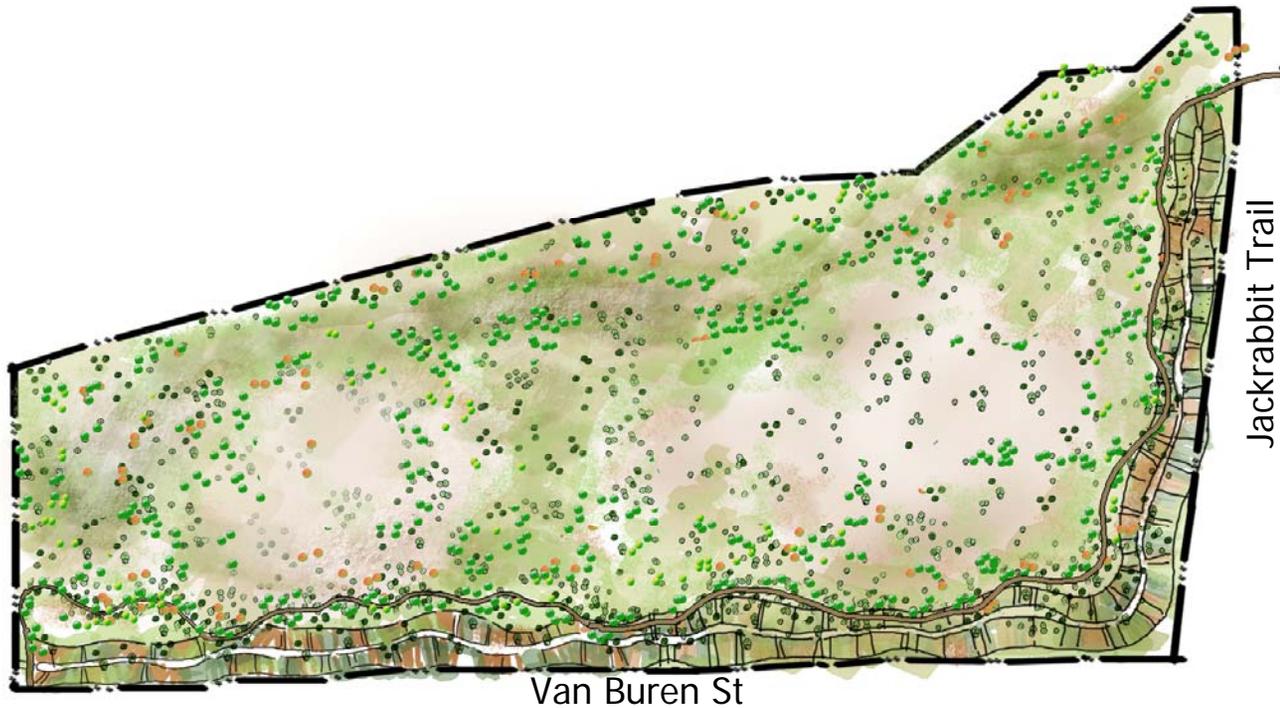


**Existing Dam and Pool Area**

# WT FRS No.4 Alternatives

## Dam Rehabilitation Alternative

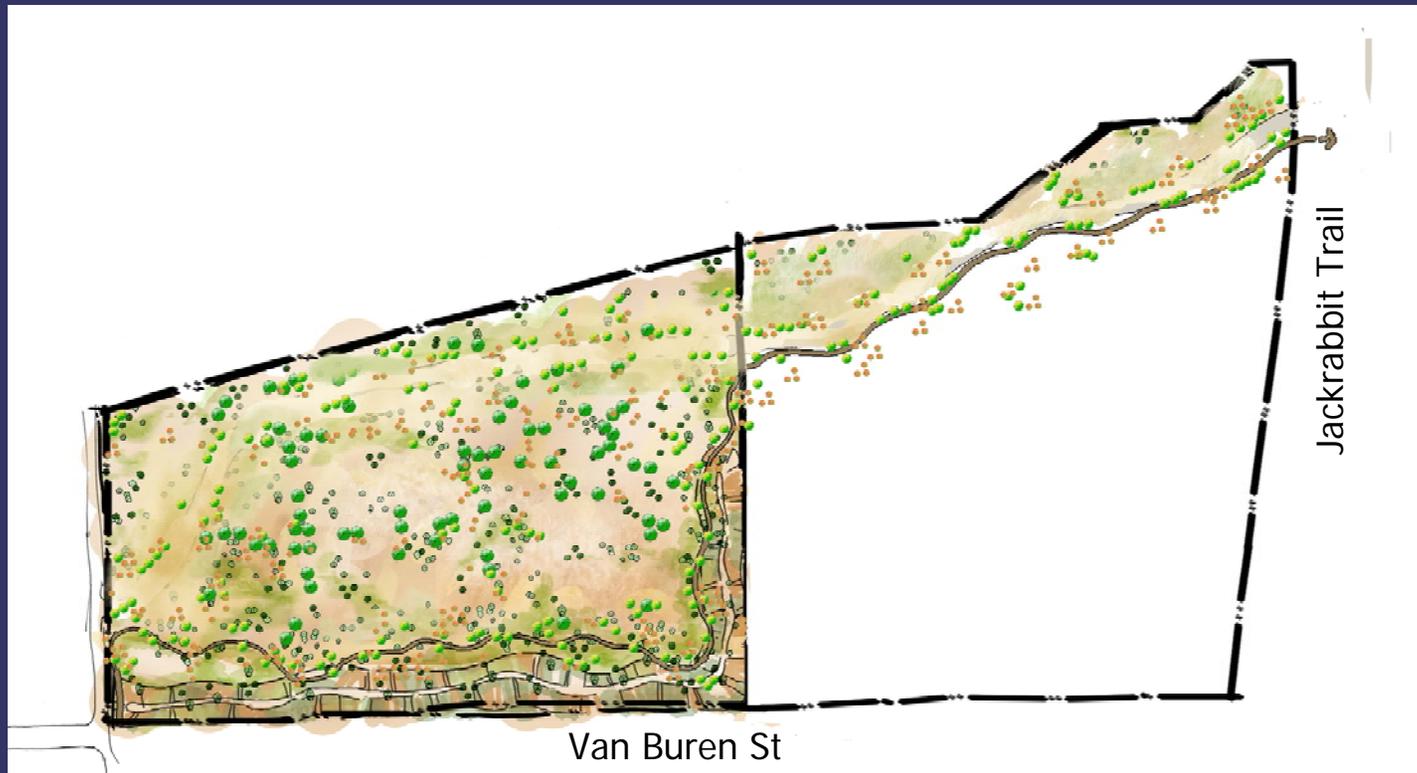
- Minimum 100-year flood protection



# WT FRS No.4 Alternatives

## Basin Alternatives

- Basin covering approximately 80 to 105 acres
- Minimum 100-year flood protection
- Basin alternative requires outlet channel



# Tuthill Road Alternatives

WT FRS No.4 to Gila River

Alternative Alignments

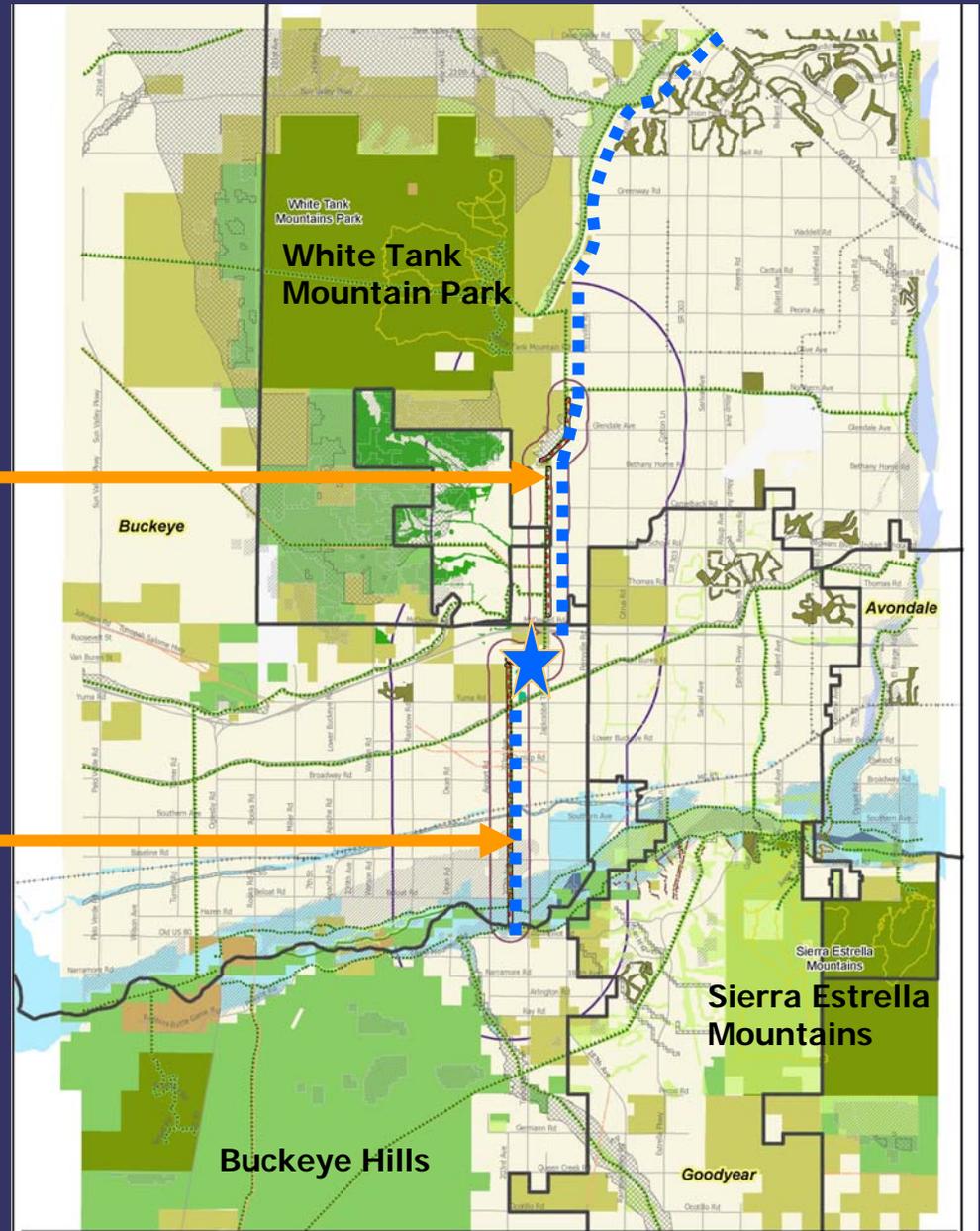
- 100-year flow
- Dean Drain
- Buckeye Irrigation District
- Roosevelt Irrigation District



# Multi-Use Opportunities

Town of Buckeye identifies WT FRS No.4 as a possible regional park site

Maricopa County Trails and town of Buckeye identify a regional trail along Tuthill Road and Jackrabbit Trail



# WT FRS No.4 Alternatives

## Dam Rehab Alternatives

- Overbuild of dam to meet Landscape Aesthetic Policy
- Multi-use opportunities



Jackrabbit Trail

Van Buren St

# WT FRS No.4 Alternatives

## Basin Alternatives

- Multi-use opportunities



# Landscape Compatibility Examples



# Potential Landscape Themes

## Agricultural/Historic Theme



# Questions and Comments