

**San Xavier District of the Tohono O'odham Nation –
Cemetery Wash Improvements Proposal for
Pima County Bond Advisory Committee Meeting –
June 20, 2014**





Existing Conditions: Presently approximately 900 of the 1,800 residents of the San Xavier District community are literally cut off every time a major rain event occurs. Flooding in Cemetery Wash prevents Emergency Vehicles (Police, Fire, Ambulance) from crossing the at-grade crossings over **Mission Road** and **San Xavier Road**, posing a grave threat to our citizens. Emergency vehicles are often unable to respond to calls during floods. Many residents have serious medical conditions which require access to medical facilities on a daily basis.

San Xavier Flood Hazard Study

Floodplain Results
100-YR Event

Legend

IHS Facilities

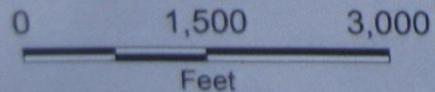
-  Arsenic Treatment Plant
-  Community Well
-  IHS Clinic Compound
-  Lagoons
-  Water Storage Tank
-  Structures Identified

-  Watercourses
-  100 year Floodplains

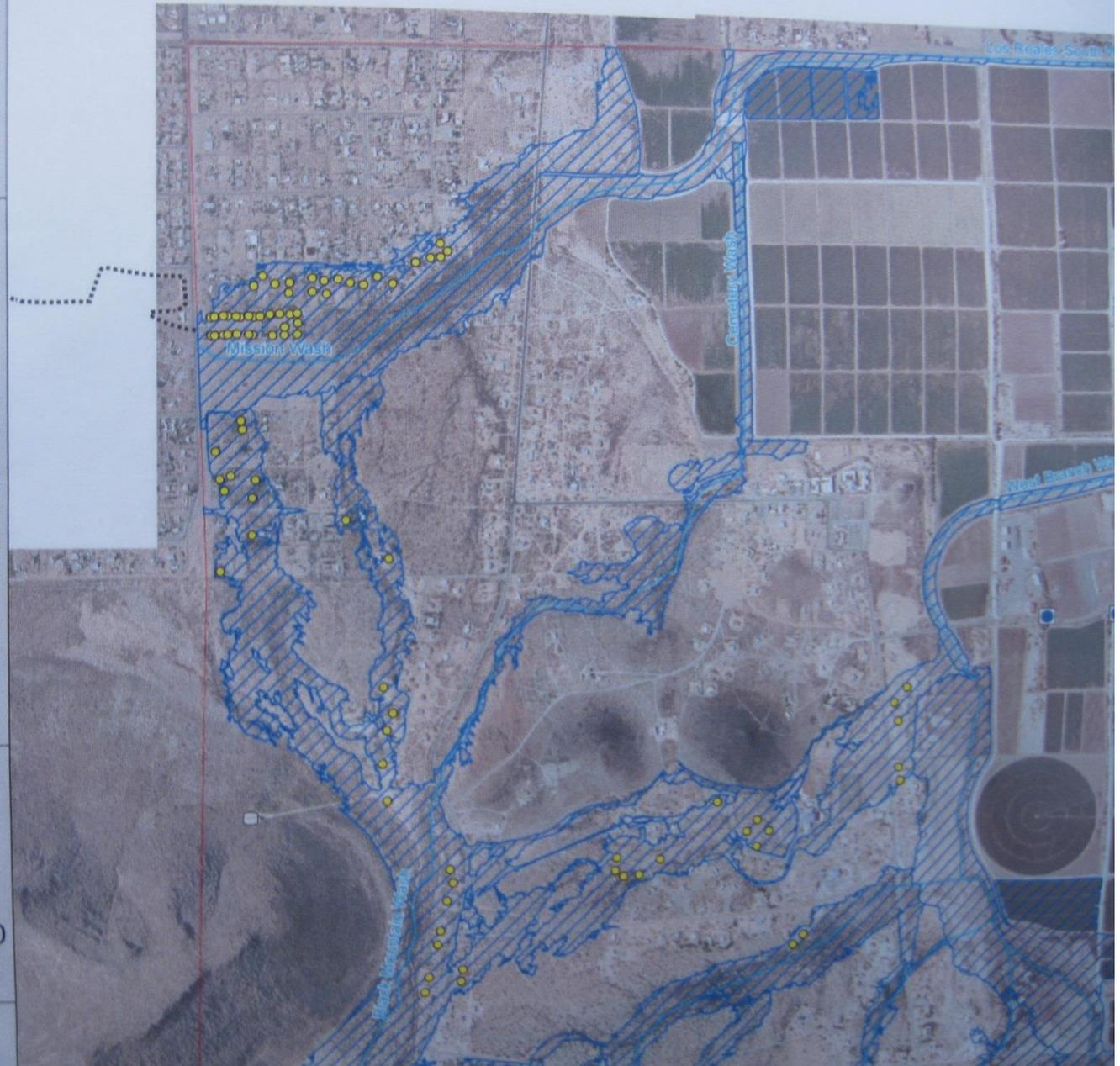
FEMA FIS Floodplains

-  100 year
-  500 year
-  Study Area

Aerials are 2008 PAG Orthophotos

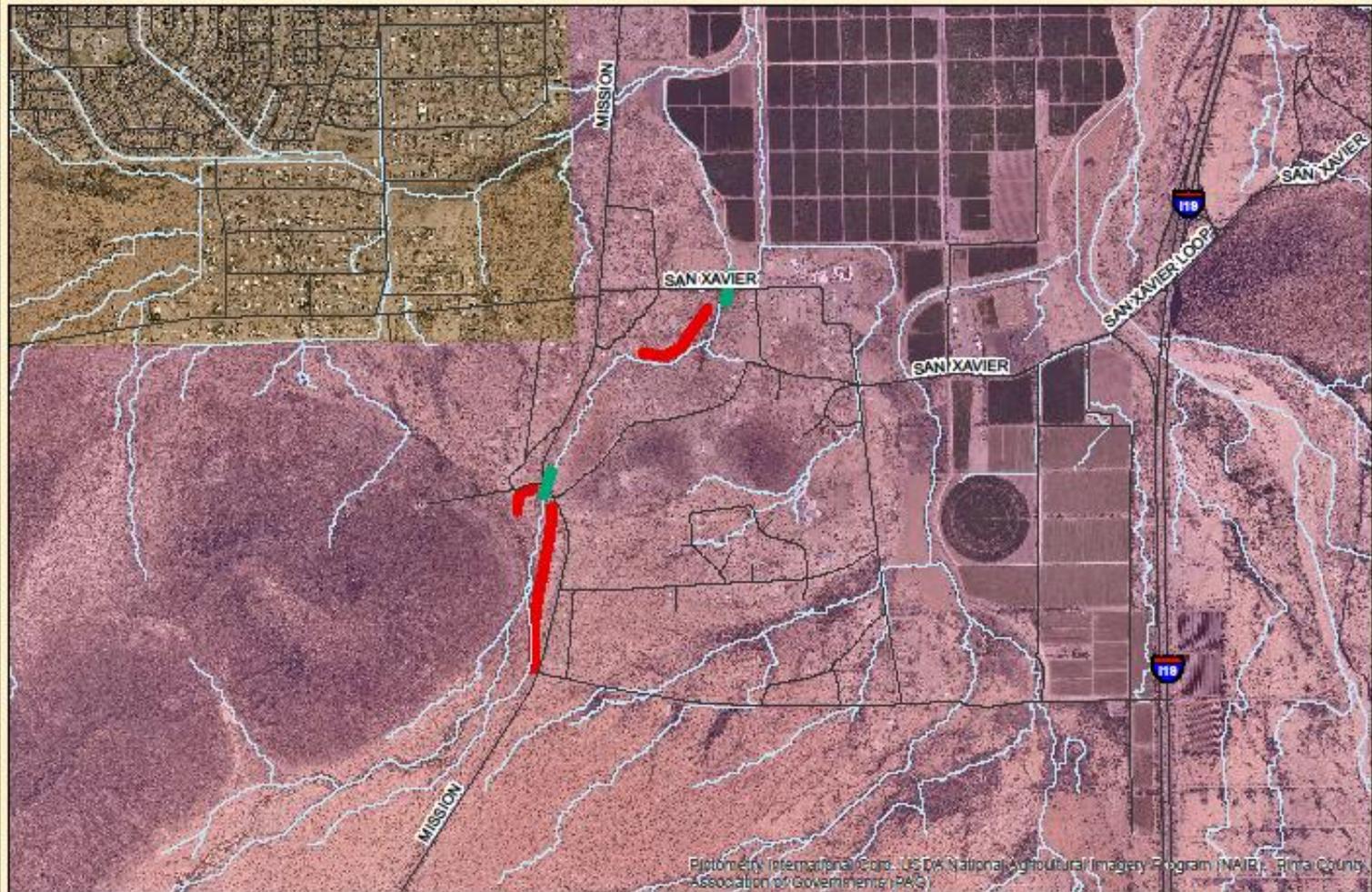


Watercourse	Discharge (cfs)
Black Mountain	2,829





Project Scope: Construct approximately 2100 lineal feet of levee along Cemetery Wash with two reinforced concrete box culverts under Mission Road and San Xavier Road. This will collect and convey storm waters into constructed channels downstream of San Xavier Road, which ultimately drain into the Santa Cruz River.



Pictometry International Corp., US DA National Aerial Imagery Program (NAIP), Pima County Association of Governments (PAG)

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Proposed Cemetery Wash Improvements

- █ Levee
- █ Culvert
- Streets
- Washes
- Tohono O'odham Nation San Xavier District



The information depicted on this display is the result of digital analysis performed on a variety of databases provided and maintained by several governmental agencies. The accuracy of the information presented is limited to the collective accuracy of these databases on the date of the analysis. The Pima County Regional Flood Control District makes no claims regarding the accuracy of the information depicted herein.

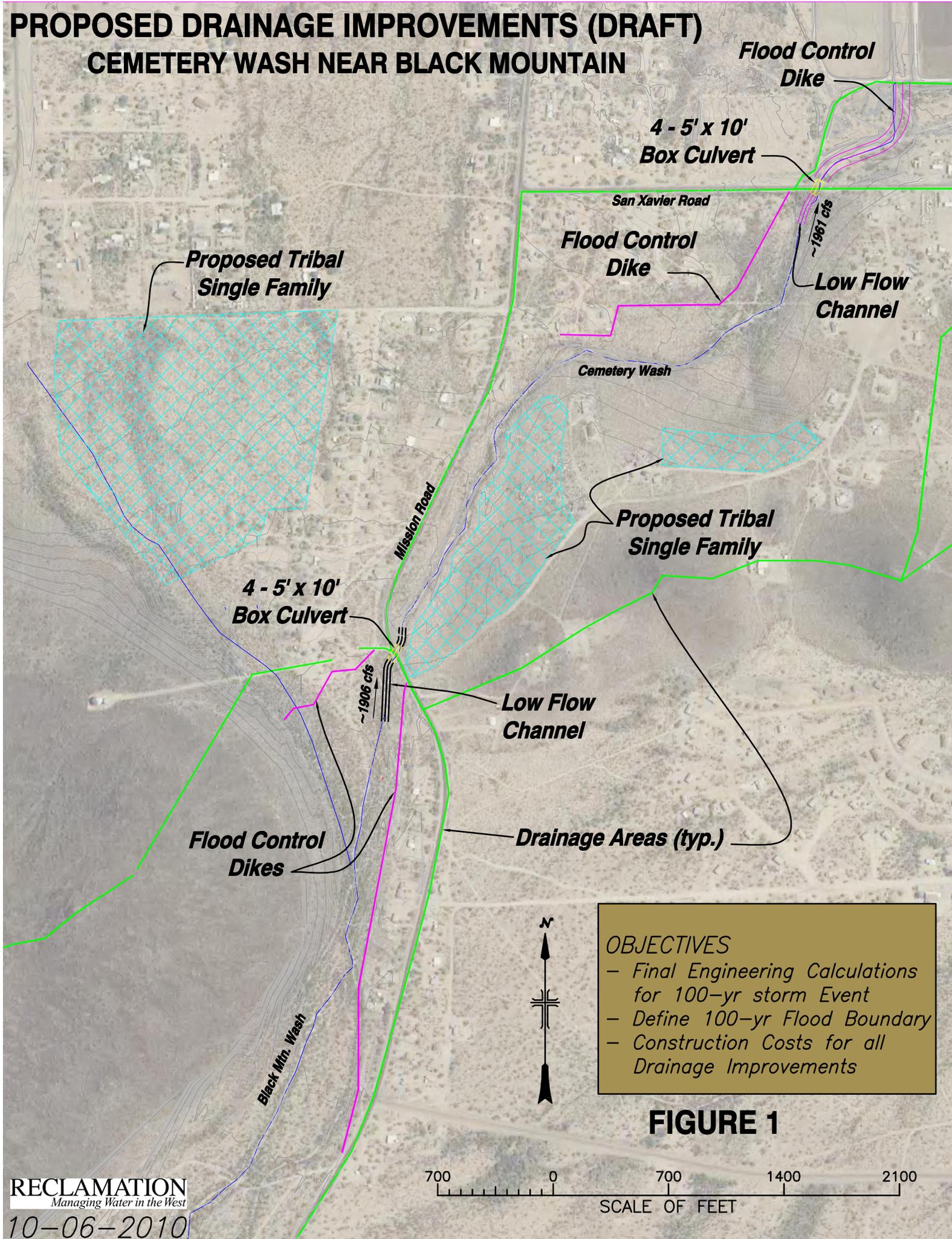
This product is subject to the GIS Data Disclaimer and User Restrictions.

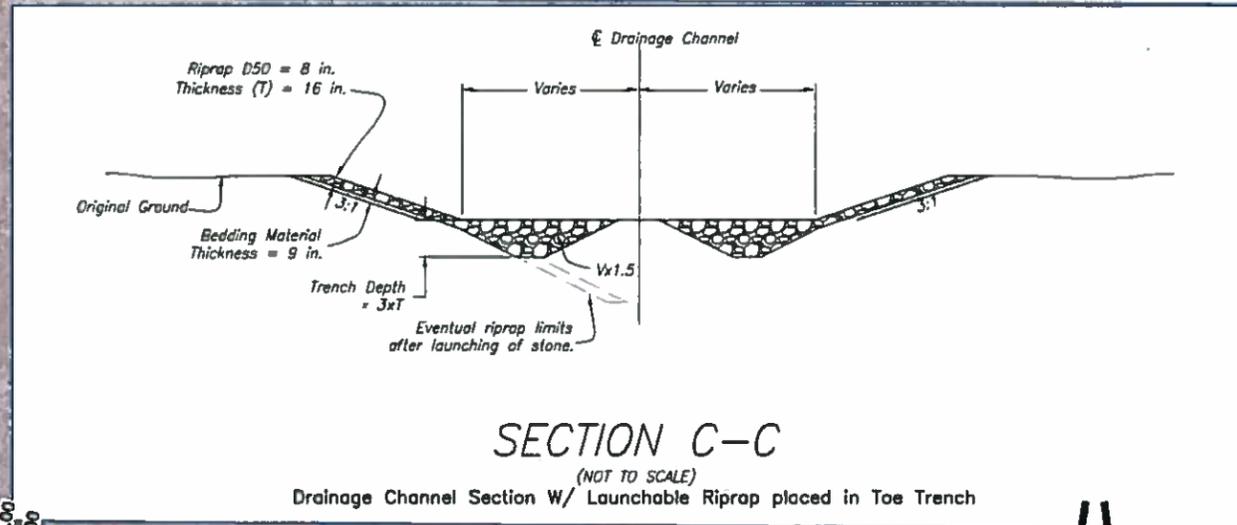
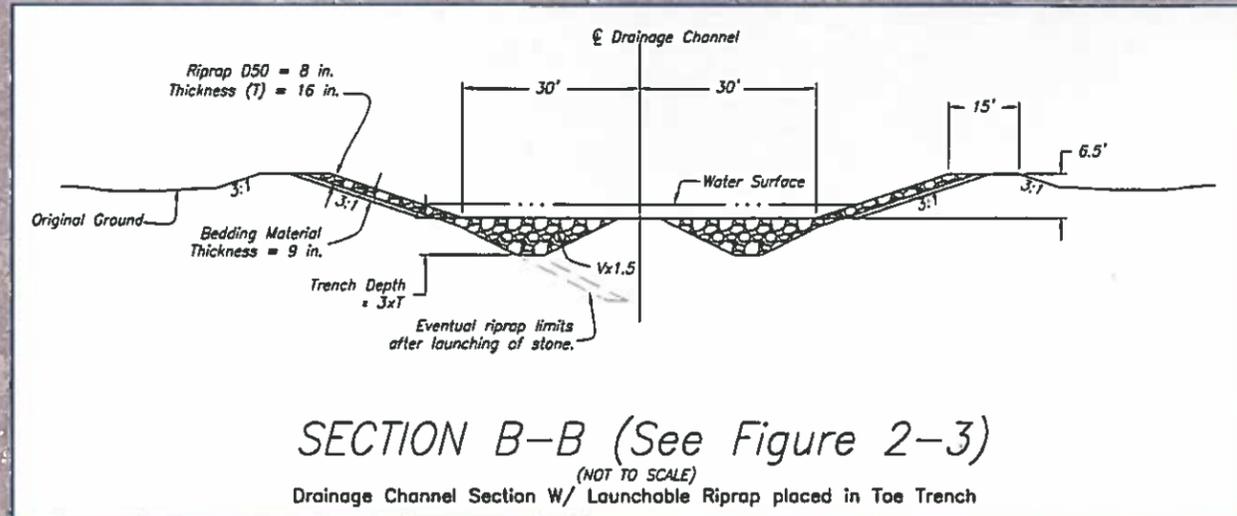
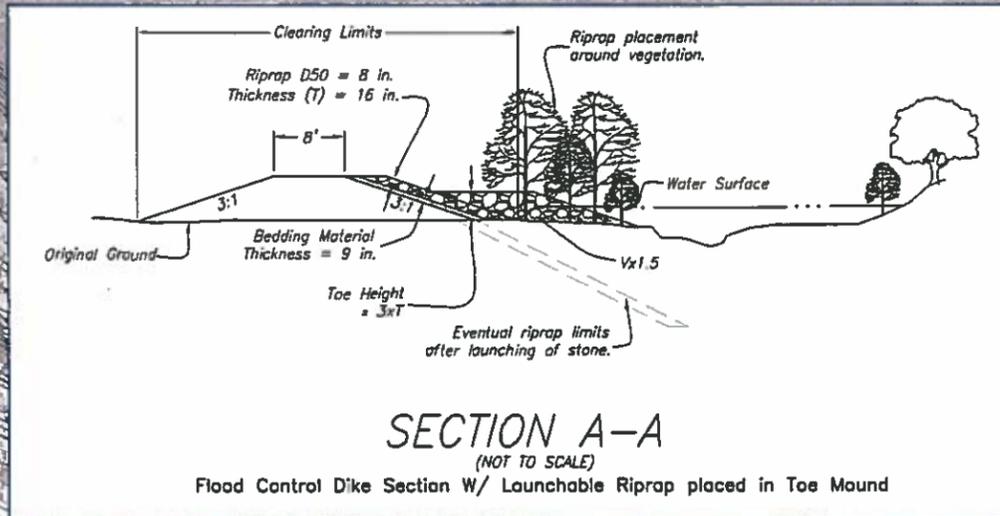
1 inch = 2,000 feet

Date: 6/6/2014

PROPOSED DRAINAGE IMPROVEMENTS (DRAFT)

CEMETERY WASH NEAR BLACK MOUNTAIN

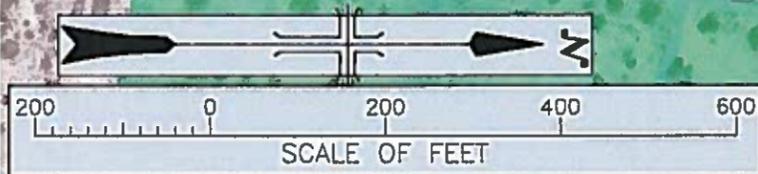
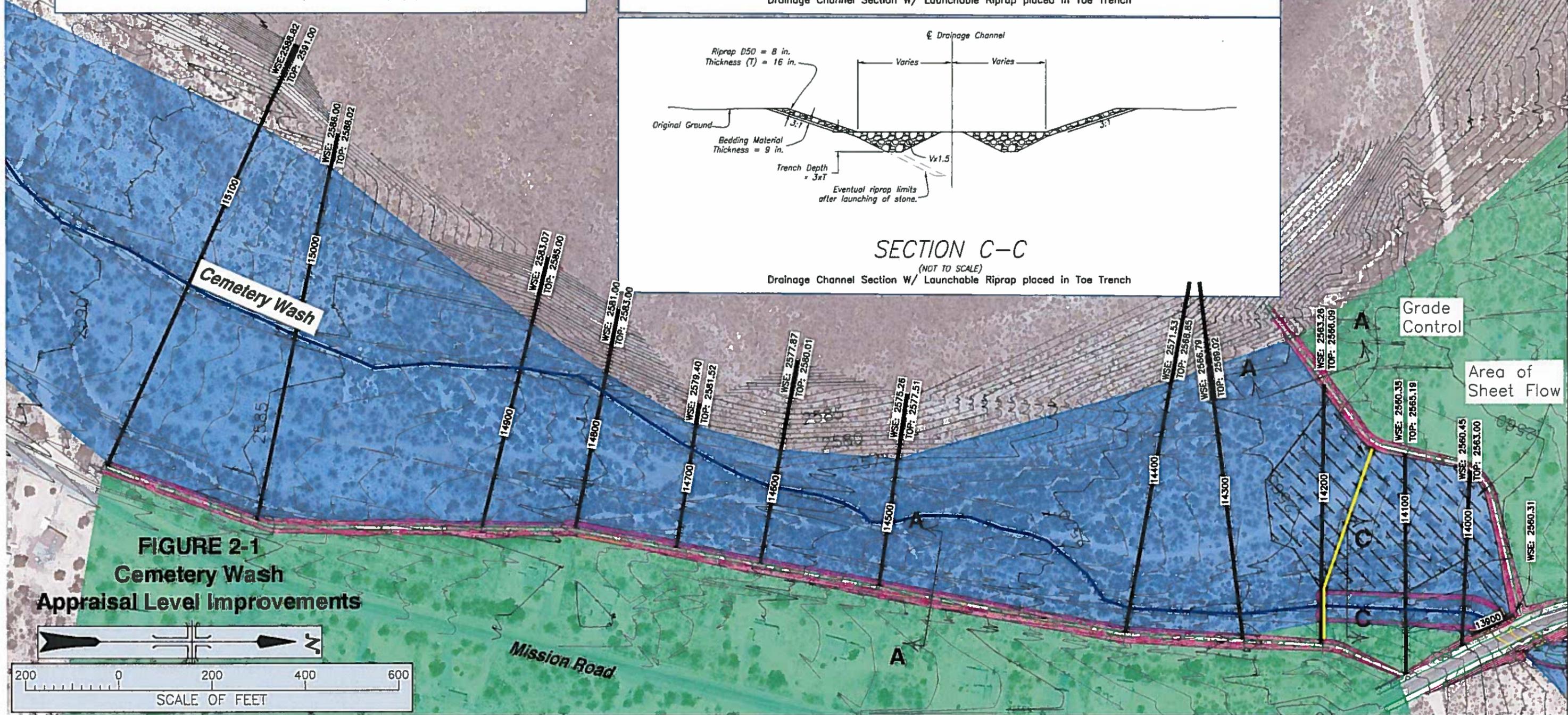




LEGEND

- Hydraulic Modeling Section
- 100 yr. Flood Boundary
- Flood Hazard Zone (Existing)
- WSE: 2563.26 Water Surface Elevation
- TOP: 2566.09 Top of Dike Elevation
- Thalweg
- Proposed Improvements

RECLAMATION
Managing Water in the West





Benefits (the project will):

- Remove about 30 residential homes and structures from the 100-year floodplain located within the San Xavier District.
- Remove about 12 residential homes and structures within Pima County jurisdiction from the 100-year floodplain, and reduce flood impacts for another 44 residences.
- Provide all-weather access to residents and emergency vehicles.
- Provide tourists visiting San Xavier del Bac Mission with improved access during the monsoon season

Partnerships:

- The San Xavier District has worked with the Bureau of Reclamation (approximately \$100,000 worth of assistance to date) on a preliminary design and cost estimate since 2010, and a final design by the Bureau of Reclamation will be completed by the end of this year.

-Flood hazard mapping has been completed in the project area by Tetra Tech under Indian Health Service funding (\$131,665 worth of assistance) which also supports the need for the Cemetery Wash drainage improvements.

- The Bureau of Reclamation has completed a preliminary jurisdictional delineation in preparation for a US Army Corps of Engineers 404 permit for the proposed drainage improvements.

Thank you for your time. We will be happy to answer any questions now, or can provide you answers later along with any additional informational requests regarding this proposal.

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