

**INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION**

Rio Grande Maintenance Activities

**CITIZENS' FORUM
FEBRUARY 7, 2006**



Canalization Project

Channel Maintenance Activities



Background:

- 2004 – Identified areas / river reaches that required maintenance
- Summer 2005 – Coordination with Resource agencies
- Oct 2005 – Received USCOE Nationwide Permit
- Dec 2005 – Initiated maintenance work



Channel Maintenance Objectives

- Maintain efficient water deliveries to:
 - U.S. Irrigation Districts
 - City of El Paso
 - Mexico
- Improve Operations at Diversion Dams



Channel Maintenance Activities

- Bank Stabilization
- Arroyo Sediment Removal
- Arroyo Realignment
- River Channel Sediment Removal
 - Upstream of Diversion Dams



American Dam

- Sediment Removal @ American Dam
 - 2005-2006: Removed ~ 40,000 CY
 - 2006-2007: Removed ~ 20,000 CY



American Dam



View Upstream



View Upstream – 90% complete



American Dam



View Downstream

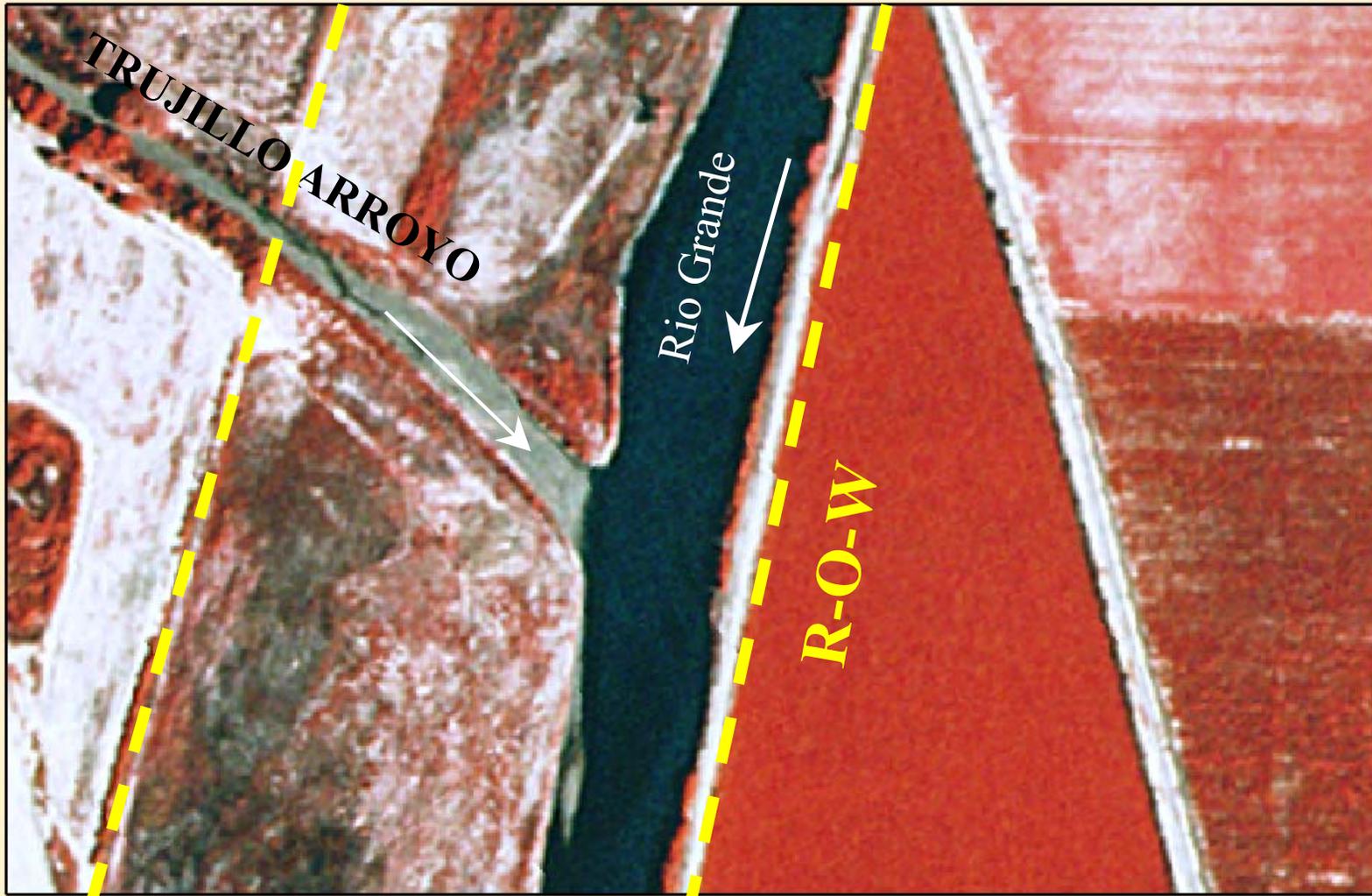


View Downstream 90% complete



Trujillo Arroyo

- Sediment Relocation
- Bank stabilization



MAD_1983_StatePlane_
New_Mexico_Central_FIPS_3002_feet
Projection: Transverse_Mercator
False_Easting: 1640416.6999997
False_Northing: 0.0000000
Central_Meridian: -106.2500000
Scale_Factor: 0.5666000
Latitude_Of_Origin: 31.0000000

Confluence of Trujillo Arroyo with the Rio Grande in Sierra County, NM

USBIAC GIS Program
April 25, 2005

Source: USBIAC Data Archive
Created In ArcGIS 9 using ArcMap





Trujillo Arroyo

View Upstream of Arroyo



View @ Confluence with
Rio Grande

Hershey Arroyo



View of eroded riverbank



Riverbank protection completed

Thurman Arroyo



Thurman Arroyo



Riverbank protection completed



Riverbank protection completed

Placitas Arroyo



PLACITAS ARROYO, HATCH, NM



Placitas Arroyo



View @ Confluence with
Rio Grande



View Upstream of Arroyo





Rio Grande Rectification Project



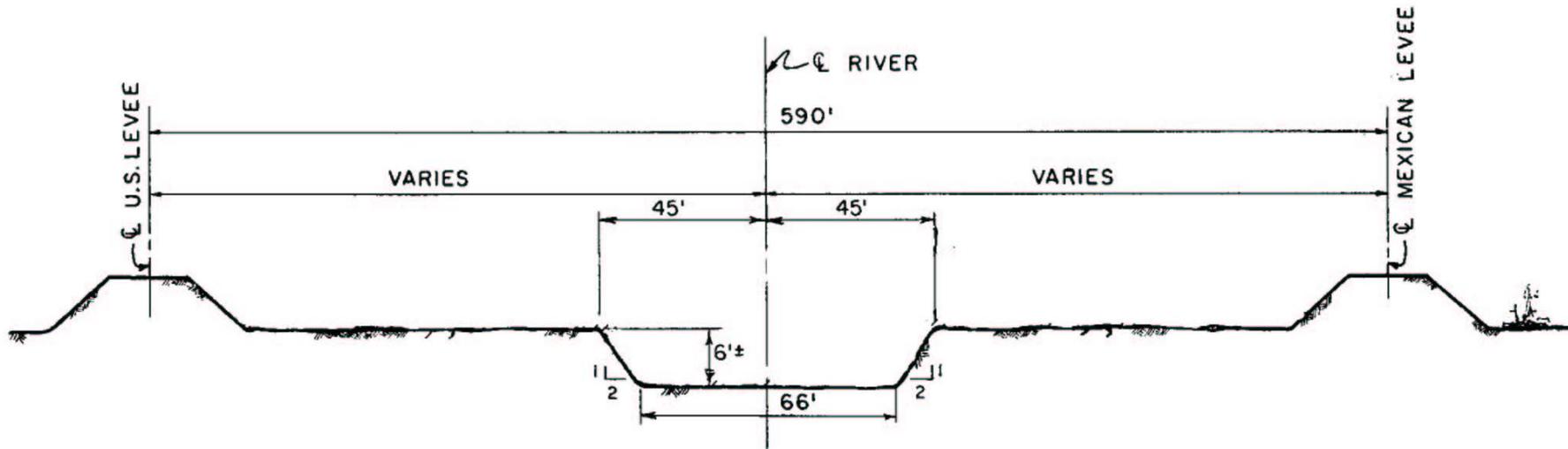
Rio Grande Rectification Project

PURPOSE:

- The project provides flood protection to urban, suburban and agricultural lands.
- Stabilizes the international boundary in the center of the channel.
- Provides irrigation and drainage benefits to agricultural lands in both nations as well as urban areas on both sides of the river.

U.S.

MEXICO



RECTIFICATION PROJECT

LOOKING D/S

INTERNATIONAL BOUNDARY & WATER COMMISSION
UNITED STATES & MEXICO
UNITED STATES SECTION

TYPICAL SECTION

IFB 87-10

EL PASO, TEXAS AUG. 1987

24175



Rio Grande Rectification Project

EXISTING CHANNEL CONDITIONS:

- Excess sediment & vegetation within channel
- Restricted stormwater / agricultural drainage into river.
- Reduction in flood control capacity.



Rectification Project



View of floodway erosion



View of floodway erosion



Chamizal Project



View of sediment within channel

View of sediment within channel



Chamizal Project



View of cleared channel



American Canal



Failed concrete panels



Failed concrete panels

QUESTIONS?

