LEVEE IMPROVEMENTS
RIO GRANDE RECTIFICATION PROJECT
EL PASO AREA

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RIO GRANDE CITIZENS’ FORUM
NOVEMBER 7, 2007
Levee Raising Objectives

- Comply with FEMA levee certification requirements
  - Provide three feet of freeboard (100 Yr. Flood)
- Improve flood protection
- Protect densely populated areas
- Complete project in 2007
Levee Raising Reaches

• End of Chamizal to Old Riverside Dam - 8.4 mi.
• Int’l Dam to Beginning of Chamizal - 0.6 mi.
• Paisano Drive to International Dam - 0.5 mi.

Total: 9.5 mi.
LEGEND
Required Fill (feet)

- Grey     0.0
- Green    0.0 - 0.5
- Light Green  0.5 - 1.0
- Light Orange  1.0 - 1.5
- Orange    1.5 - 2.0
- Red       2.0 - 3.0
LEGEND

Required Fill (feet)

- Grey: 0.0
- Green: 0.0 - 0.5
- Light Green: 0.5 - 1.0
- Light Orange: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: 2.0 - 3.0
Levee Raising Work

• Work Started: May 17, 2007
• Work Completed: August 30, 2007
• Equipment Used:
  – 2 Graders
  – 2 Scrapers
  – 2 Pad Drum Vibratory Rollers
  – 2 Smooth Drum Vibratory Rollers
  – 3 Water Trucks/1 Service Truck
  – 2 Water Pumps
Levee Raising Work (Cont.)

- USIBWC Field Personnel
  - 1 Supervisor
  - 6 Heavy Equipment Operators
  - 1 Mechanic
  - 2 Light Equipment Operators
  - 1 Heavy Equipment Servicer

- 56,400 Tons of Embankment Material Used
- 30,900 Tons Total Surfacing Material Used:
Levee Raising Work (Cont.)

- Costs
  - Embankment Material $293,579.00
  - Surfacing Material $209,183.00
  - Rental Equipment (4 mos.)
    - 1 Water Truck $15,140.00
    - 2 Rollers $22,000.00
    - 2 Water Pumps $15,600.00
  - Soil Testing Laboratory $8,036.00
  - Labor $180,000.00
  - Materials/Fuel $65,125.00

TOTAL $808,663.00
Scraping top of levee road
Placement of embankment material
Compacting embankment material using pad drum roller
Placement of surfacing material
Compacting surfacing material using smooth drum roller
Before

After

Downstream of International Dam
QUESTIONS?