Levee Rehabilitation Projects
Lower Rio Grande Valley

International Boundary and Water Commission

United States Section

Engineering Services Division

February 10, 2016

FEMA Accreditation

- Accredited Levee System - A FEMA accredited levee system is a levee system that meets the requirements of 44CFR65.10 and therefore is shown on the Flood Insurance Rate Map (FIRM) as providing protection from the 1-percent-annual-chance flood.

- FEMA does not own, operate, maintain, or inspect levee systems or develop certified levee-related data for accreditation purposes.

FEMA Accreditation

- As the levee owner, USIBWC will evaluate that the levees have been constructed to required design standards and are operated appropriately.

- For FEMA to accredit a levee system with 1%-annual-chance flood hazard reduction capability on a FIRM, the levee owner/local project sponsor must submit a package containing the required data and documentation to show that the levee system meets all design and operation requirements of 44CFR 65.10.

Submitted LRGV FEMA Review Packages

1. Common Levee
2. Mission Levee Phase I
3. Mission Levee Phase II
4. DHS Levee/Wall Segment O-04A
5. DHS Levee/Wall Segment O-04C
6. DHS Levee/Wall Segment O-05
7. DHS Levee/Wall Segment O-06A
8. DHS Levee/Wall Segment O-06B & C
9. DHS Levee/Wall Segment O-07

Submitted LRGV FEMA Review Packages

10. DHS Levee/Wall Segment O-08
11. DHS Levee/Wall Segment O-09 Phase I
12. DHS Levee/Wall Segment O-09 Phase II
13. DHS Levee/Wall Segment O-10
14. North Banker Floodway Levee
15. Mission Levee Improvements at Bentsen Palm Drive, UID, Penitas RR Crossing
16. Main Floodway
17. North Floodway – Two Structures 172 &413
18. North Floodway Phase I

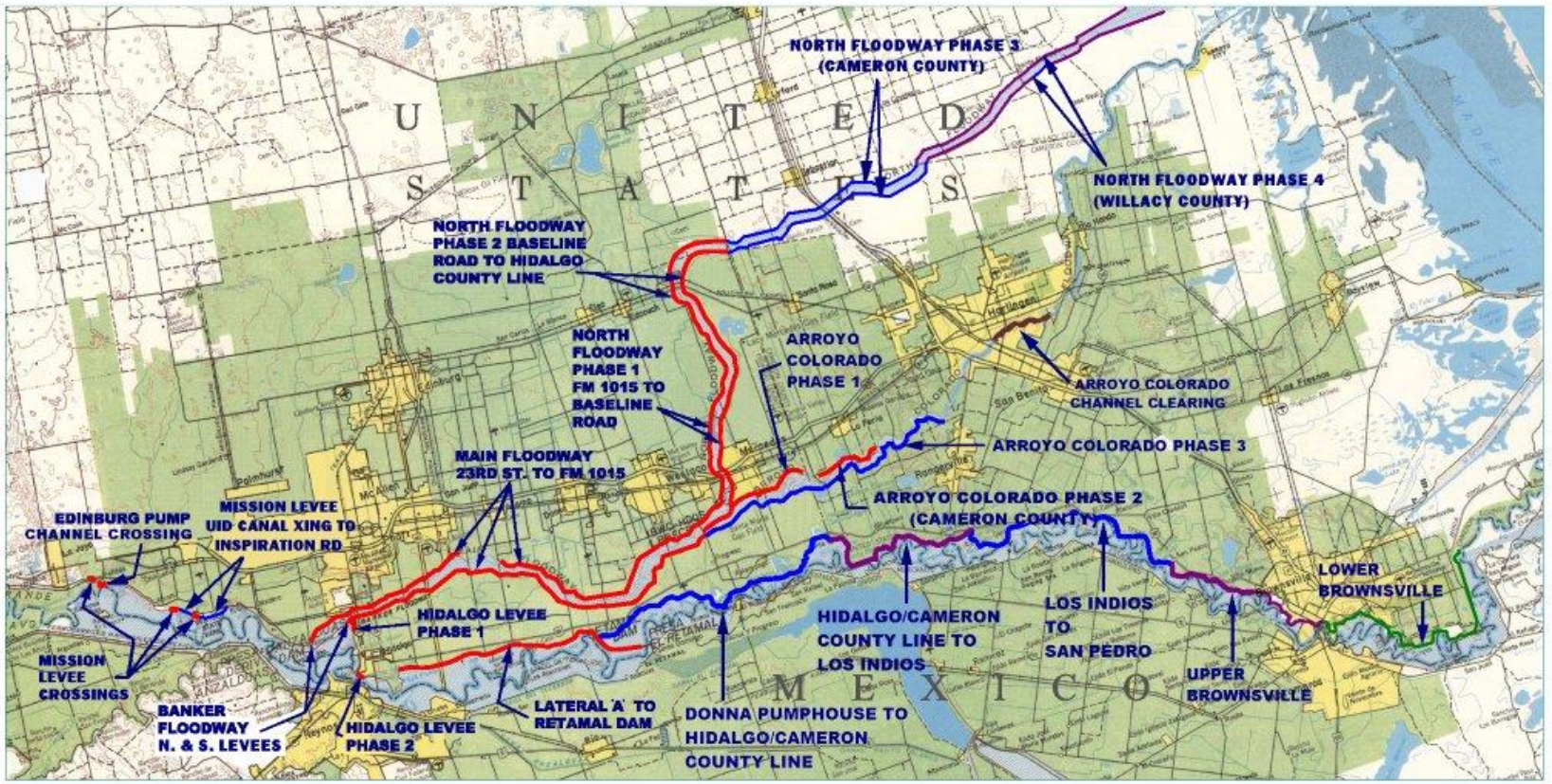
Submitted LRGV FEMA Review Packages

19. North Floodway Phase II
20. Arroyo Colorado Phase I
21. Arroyo Colorado Phase II
22. Lower Brownsville Levee – (Donna to Brownsville Reach # 5)
23. Upper Brownsville Levee – (Donna to Brownsville Reach # 4)

Accreditation "Speed Bumps"

- Interior Drainage - FEMA requires an Interior Drainage Analysis. To date, no analysis exists. USIBWC is only authorized to do work on the levees within USIBWC ROW and does not have authority in assessing the interior drainage issues.
- Levees need to tie into high ground
- Levee/Roadway intersections
- Intake / Drainage Channels

LRGV FLOOD CONTROL PROJECTS



Levee Improvements
Completed:180 Miles
Under Construction: 6 Miles
Pending Construction: 66 Miles

Total Levee Miles
253 Miles that include Interior Floodway Levees and River Levee System.

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES SECTION

LOWER RIO GRANDE FLOOD CONTROL SYSTEM
LEVEE IMPROVEMENTS AND ARROYO CLEARING

EDITED: A. MOEHLIG DATE: AUG 10, 2011

LRGV CONSTRUCTION PROJECTS

- Los Indios to San Pedro Levee Improvements– (Donna to Brownsville Reach #3)
- Progreso Levee Improvements (Donna to Brownsville Reach #1)

LOS INDIOS TO SAN PEDRO LEVEE

- 11.9 levee miles.
- $11.7 million contract to LECON Inc.
- Notice to Proceed issued December 26, 2013.
- Project substantially completed October 2015.
- Project administratively closed out January 2016.
- FEMA Package to be sent by March 2016.

International Boundary and Water Commission

Engineering Services Division

LOS INDIOS TO SAN PEDRO LEVEE

PROGRESO LEVEE

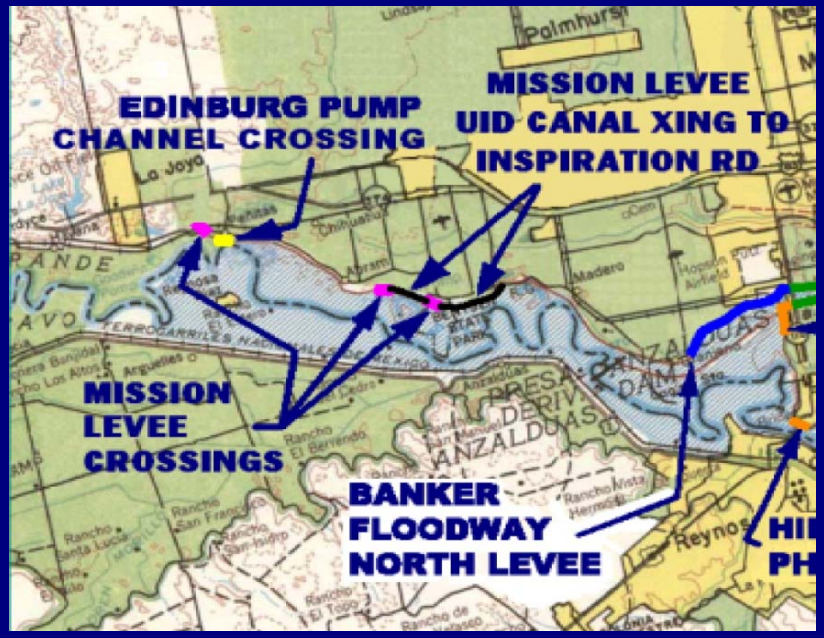
- 6.0 levee miles total (west segment is 2.0 miles; east segment is 4.0 miles)
- $4.3 million contract awarded to Affolter Contracting Inc.
- Notice to Proceed issued July 16, 2015
- Anticipated completion October 05, 2016
- 26% Complete

PROGRESO LEVEE

FORTHCOMING LRGV CONSTRUCTION PROJECTS

- Edinburg Pump Levee Rehabilitation
- Mercedes Railroad Floodgates.
- Sebastian Railroad Floodgates.
- Brownsville Railroad Levee Gap.
- Brownsville Levee Cracking Remediation.

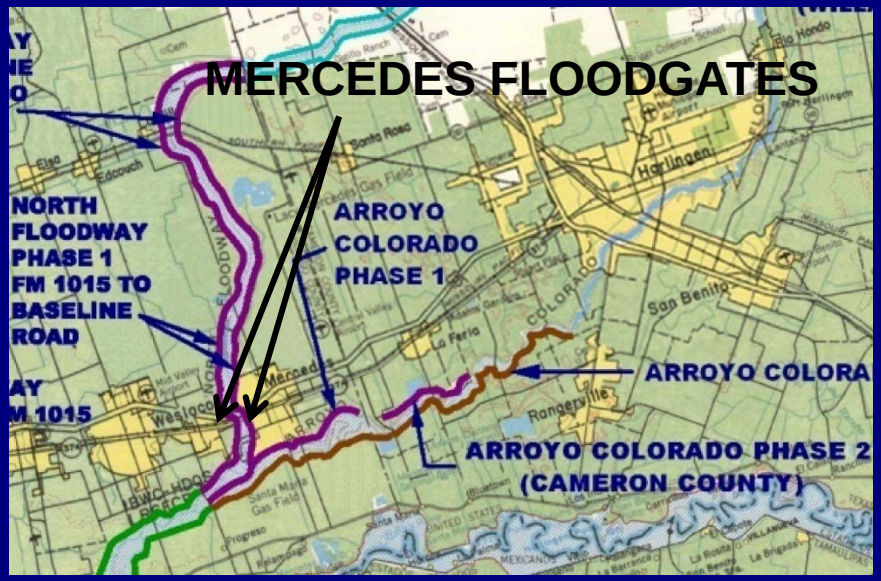
EDINBURG PUMP LEVEE REHABILITATION



Edinburg Pump – Yellow Line

- Design : .7 miles of levee
- $400,000.00 design contract URS Group, Inc.
- Notice to Proceed issued on October 1, 2014
- Design completed Nov. 2015
- Anticipate construction contract award for FY 2016

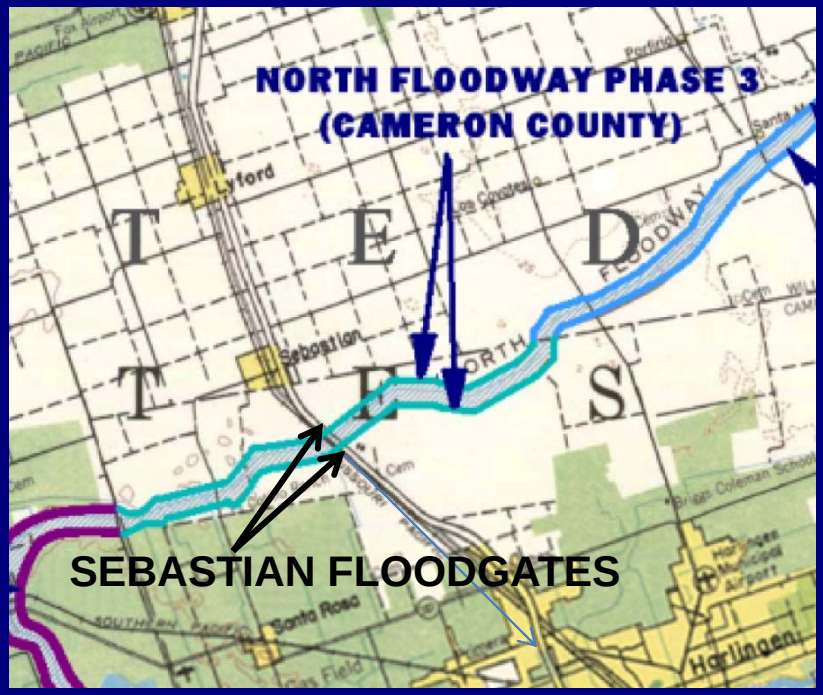
MERCEDES RAILROAD FLOODGATES



Floodgates depicted as part of North Floodway Phase 1

- Design : Railroad Floodgates
- $150,00.00 design contract awarded to S&B Infrastructure.
- Notice to Proceed issued on June 10, 2014
- Design completed Oct. 2015
- Anticipate construction contract award for FY 2016

SEBASTIAN RAILROAD FLOODGATES



Floodgates depicted as part of North Floodway Phase 3

- Design : Railroad Floodgates
- $150,00.00 design contract awarded to URS Group, Inc.
- Notice to Proceed issued on June 10, 2015
- Design completed Dec. 2015
- Anticipate construction contract award for FY 2016.

BROWNSVILLE RAILROAD LEVEE GAP

Railroad Gap depicted as part of Upper Brownsville Levee

- Design: 500 Linear Foot B&M Railroad Levee Gap.
- Design being performed by USIBWC ESD.
- Notice to Proceed issued on February 1, 2016.
- Design completion anticipated by June 2016.
- Anticipate construction contract award for FY 2017

BROWNSVILLE LEVEE CRACK REMEDIATION

Remediation area depicted as part of Upper Brownsville Levee

- Design : 800 linear feet of levee / floodplain remediation.
- $500,000 design contract awarded to ARCADIS U.S. Inc.
- Notice to Proceed issued on September 28, 2015
- Design completion estimated by July 2016.
- Anticipate construction contract award FY 2017.

ACCOMPLISHMENTS

- 187 miles of levee improvements completed.
- 6 miles of levee improvements under construction.
- 66 miles of levee improvements pending.
- 23 certification packages submitted to FEMA.
- Visit www.ibwc.gov to learn more about the Levee Improvement Status.

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