



# TWDB FLOOD INFRASTRUCTURE FUND CATEGORY I – BROWNSVILLE REGIONAL PROJECT

*LOWER RIO GRANDE VALLEY 25<sup>TH</sup> ANNUAL WATER  
QUALITY MANAGEMENT & PLANNING CONFERENCE*

**MAY 24, 2023**



# PROJECT TEAM

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## □ Technical Consultant (Halff Associates)

- Anne Whitko, CFM – Sponsor Liaison
- John Clint, PE – Sponsor Liaison
- Ryan Londeen, PE, CFM – Project Manager
- Andrew Moore, PE, CFM – Technical Consultant
- Elmer Hinojosa, EIT – Production Staff
- Grimaldo Carrillo – Production Staff



## □ Sponsor (City of Brownsville)

- Doroteo Garcia, PE – Director of Public Works and Engineering
- Carlos Lastra, PE – City Engineer

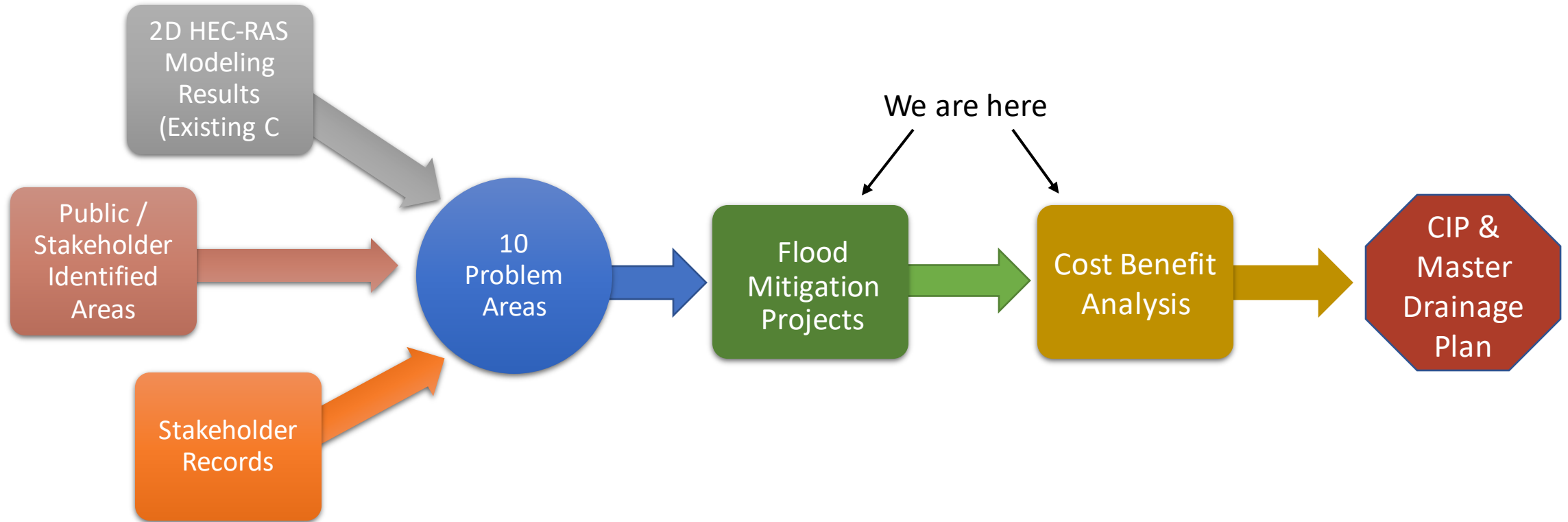


## □ TWDB

- Malcolm Hamilton – TWDB Representative

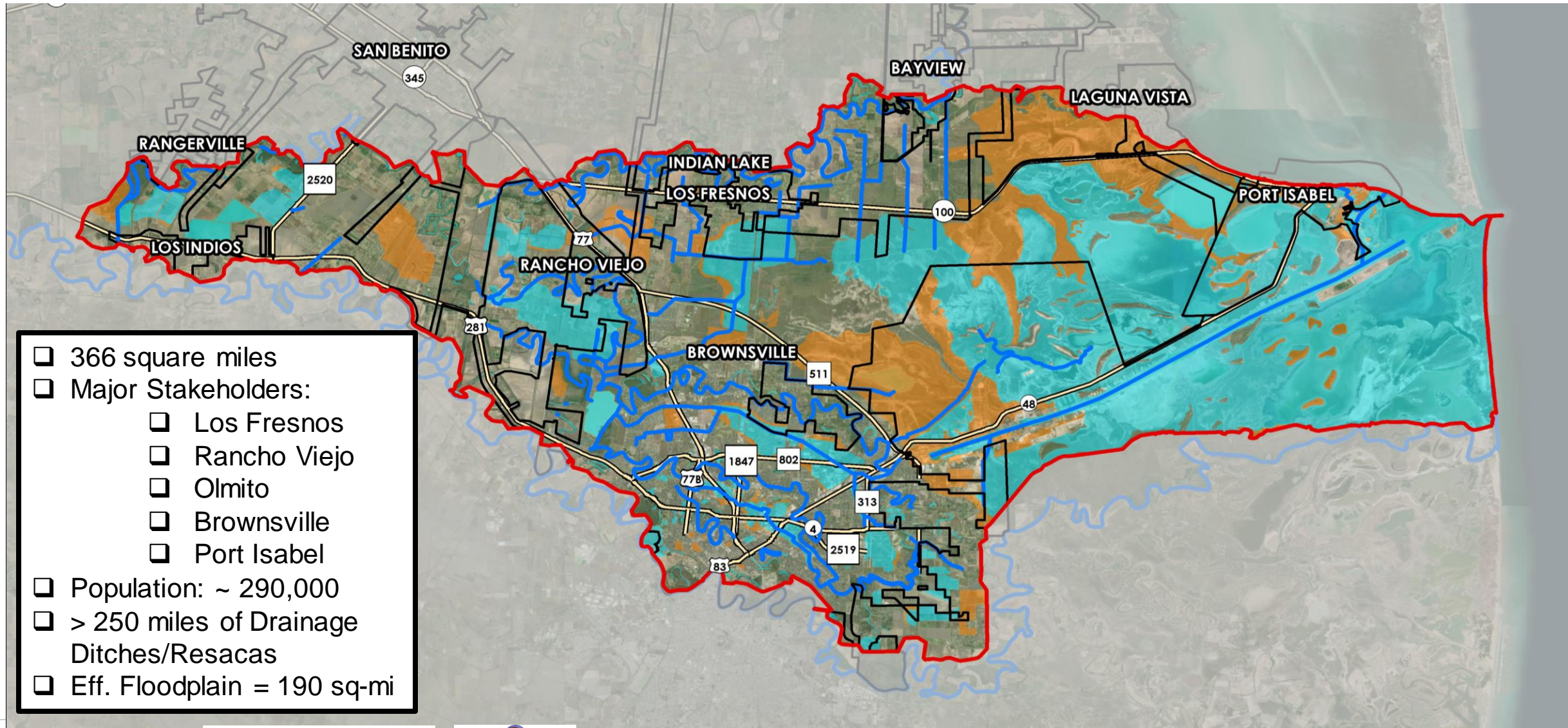


# STUDY OBJECTIVES



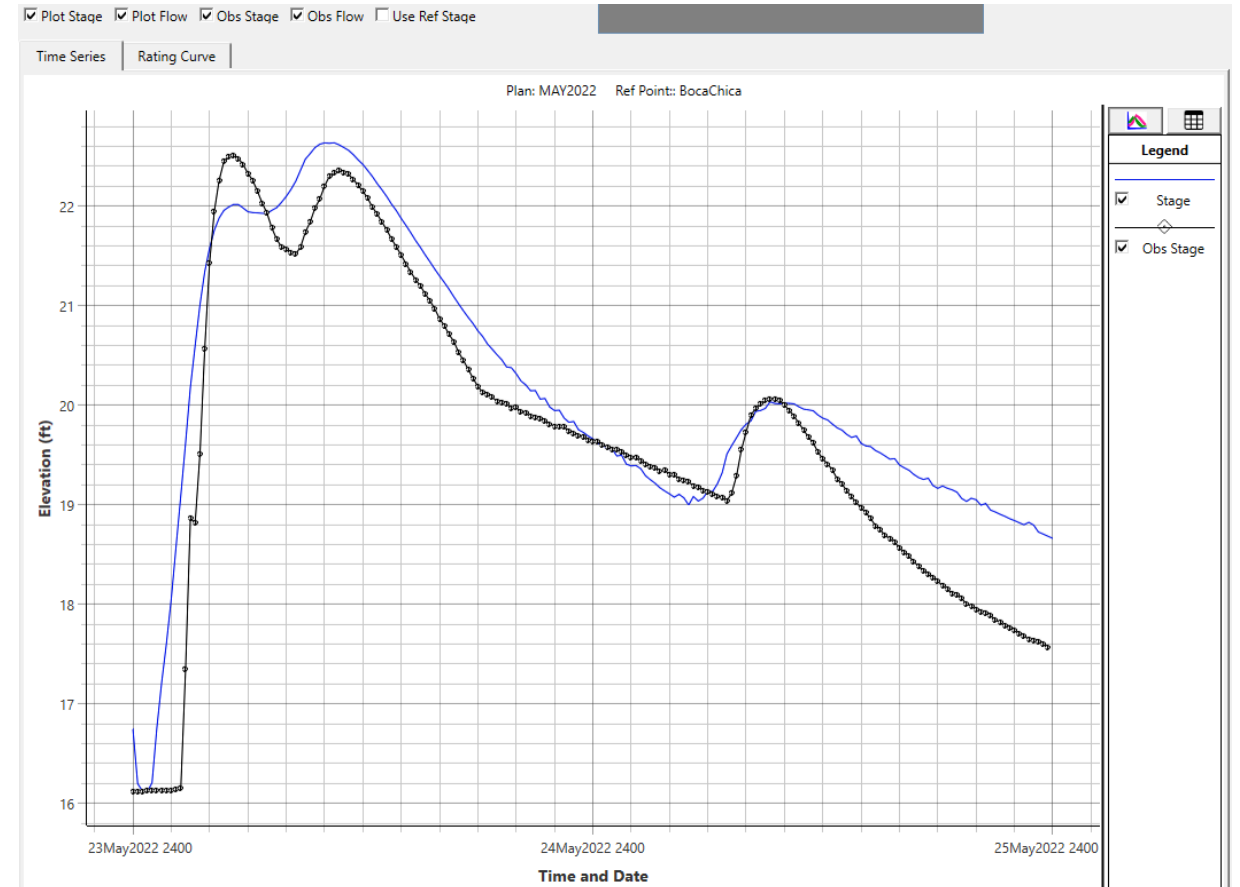
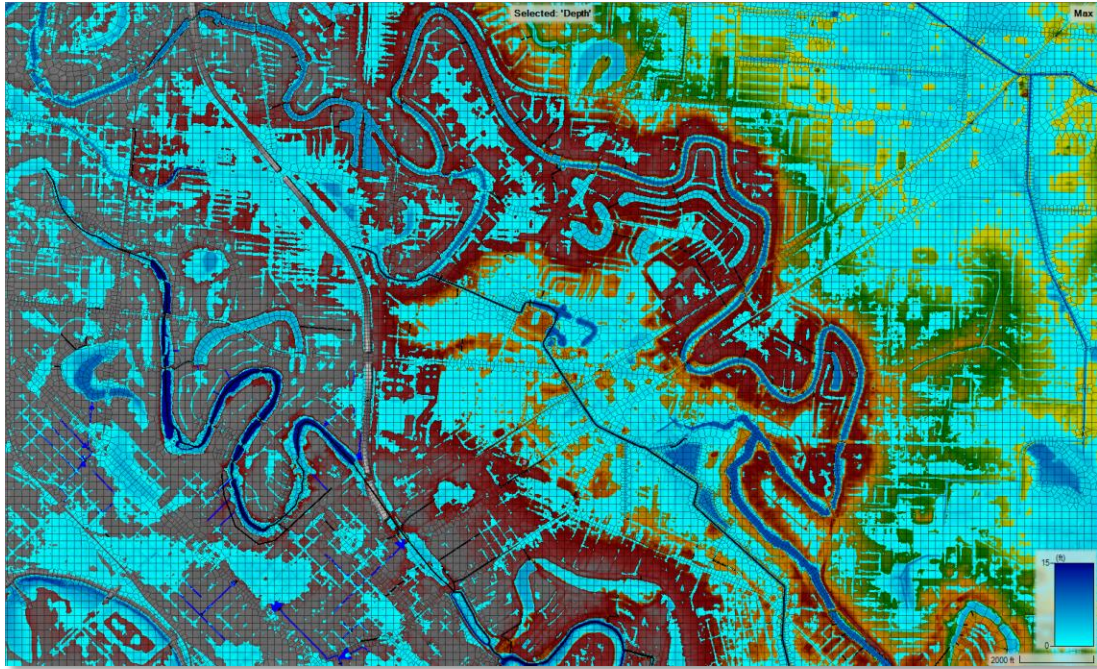


# STUDY AREA OVERVIEW



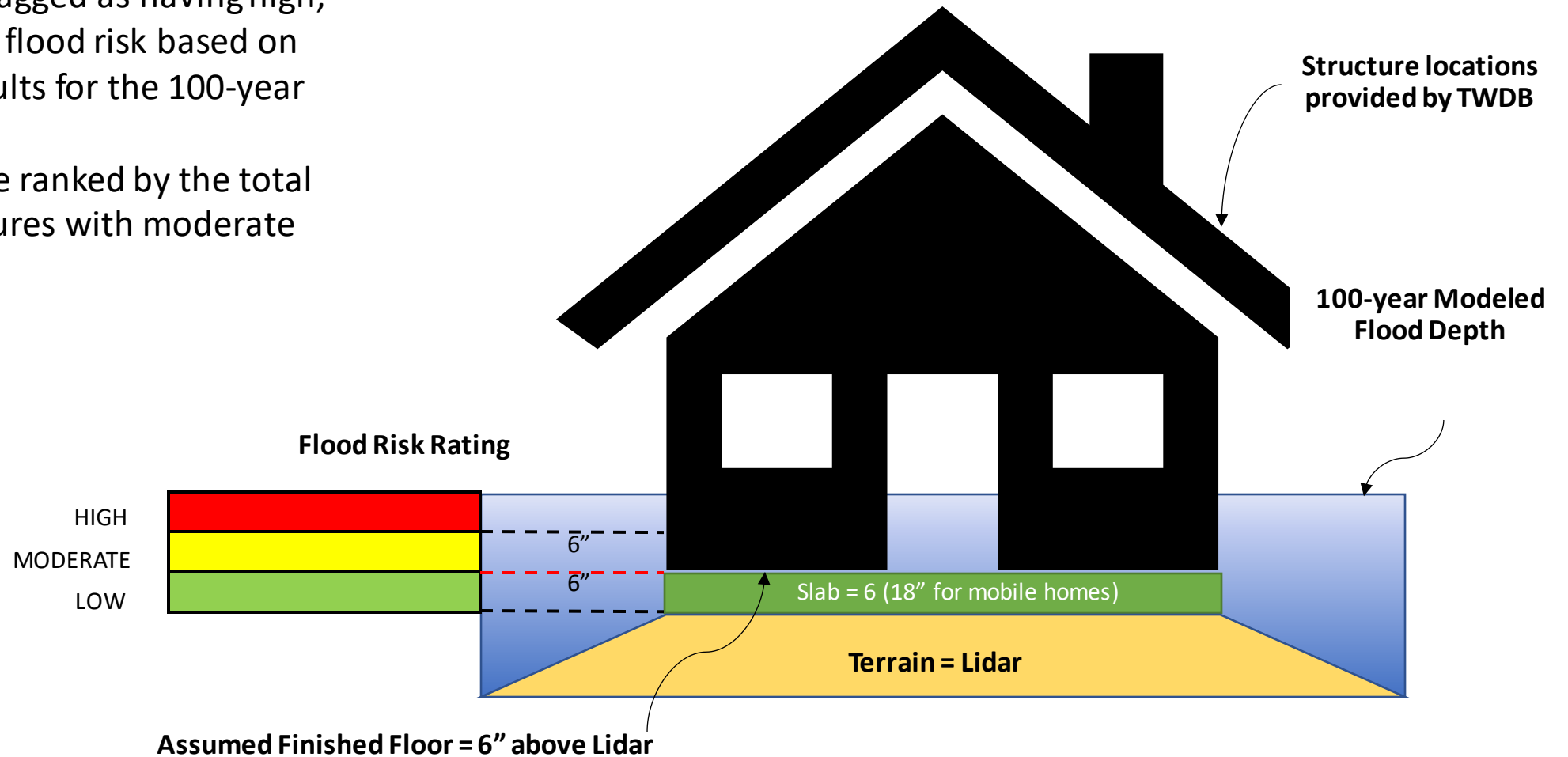


# EXISTING CONDITIONS – CALIBRATION AND HOT SPOT ANALYSIS



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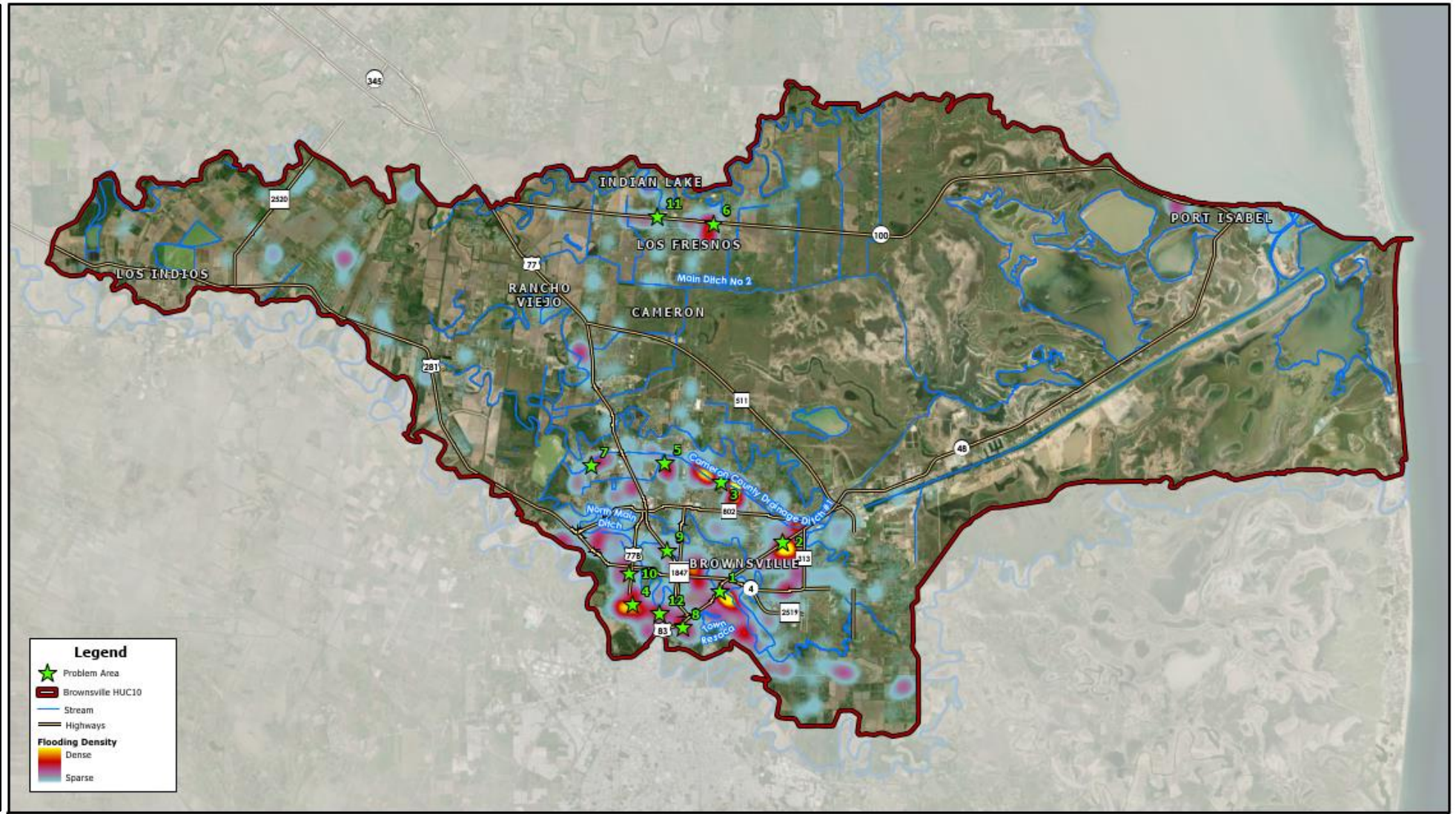
- ❑ Structures were tagged as having high, moderate, or low flood risk based on the modeling results for the 100-year storm event
- ❑ Problem areas are ranked by the total number of structures with moderate to high flood risk





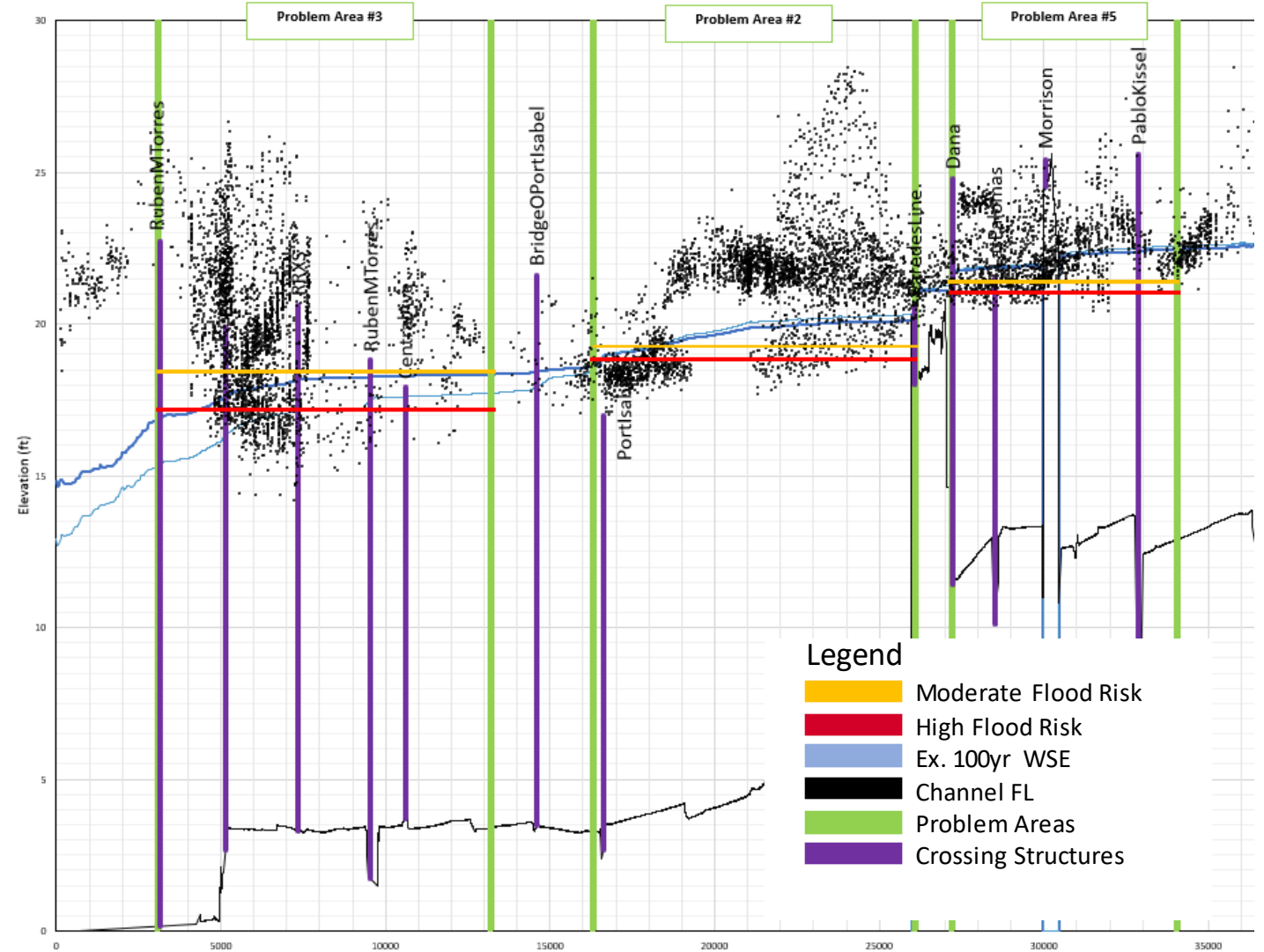
# EXISTING CONDITIONS ANALYSIS – HOT SPOTS

1. Brownsville – Four Corners
2. Brownsville – Central Ave. and CCDD1 ditch 1
3. Cameron Park
4. West Brownsville
5. Brownsville Country Club
6. Los Fresnos – SW of Hwy 100 and FM 1847
7. South side of West Alton Gloor
8. North of UTRGV
9. West Price Rd.
10. Lakeside Blvd.
11. Hwy 100 – West Los Fresnos
12. Downtown Brownsville



# NEXT STEPS

- Complete modeling of flood mitigation projects (In Progress)
  - Projects focused on Detention and Channel Improvements
- Floodplain Mapping of Proposed Conditions (In Progress)
- Complete Benefit and Cost Analysis (In Progress)
- Rank Projects and Develop CIP
- Final Public Meeting to Present Projects to the Public (Tentatively scheduled July 12<sup>th</sup>, 2023 at the Brownsville Public Library)
- Master Drainage Plan Report (In Progress)





## QUESTIONS?

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