

DRAFT

2023 REGIONAL FLOOD PLAN
REGION 15
LOWER RIO GRANDE

VOL. 3



APPENDIX B - TABLES

Vol. 3

Appendix B

TABLES

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Table 1:

Existing Flood Infrastructure Summary Table

This table is omitted due to its size. Please contact Kristina Leal at kleal@half.com to make arrangement to view the table or refer to Map 1 in Appendix A (Volume 2) for a graphic representation of this information.

Appendix B

Table 2:

Summary of Proposed or Ongoing Flood Mitigation Projects

TABLE 2: SUMMARY OF PROPOSED OR ONGOING FLOOD MITIGATION PROJECTS

Table 2: Summary of Proposed or Ongoing Flood Mitigation Projects

Existing Project ID	RFPG No.	RFPG Name	Project Name	Description	Counties	HUC8s	HUC12s	Watersheds	Project Status	Project Cost	Dedicated Funding for Construction (Yes/No)	Source of Funding	Expected Year of Completion	Anticipated Benefit
15000001	15	Lower Rio Grande	West Main Drain-Laguna Madre, FIF Project Number 40001	Category 1 FIF (FIF13800), The drainage study will study a portion of "West Main Drain-Laguna Madre" (HUC# 1211020804) & "East Main Drain-Laguna Madre" (HUC# 1211020805) enclosed within the City's borders (4 square miles) and use updated Light Detection and Ranging (LiDAR) data from a 2018 USGS flight. Key elements of the project: • Coordination with County, drainage and irrigation districts within the study area, • Collection of hydrographic data from previous efforts, validate, and assimilate into the REON.cc cyberinfrastructure for direct access by end-users, • Development of new or update of existing geo-referenced hydrologic (HEC-HMS) & hydraulic (HEC-RAS) models Key project deliverables, Production of a new hydrologic and hydraulic model (developed to FEMA capture standards, using local drainage criteria), Regional flood management decision support infrastructure to sustain the adoption of regional flood management projects beyond the life of this project.	Willacy	12110207, 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$ 400,000	No	FIF	2023	Unknown
15000002	15	Lower Rio Grande	Willacy County Watershed Study, FIF Project Number 40020	Category 1 FIF (FIF13774), Willacy County will conduct planning of the Upper Pilot Channel-Laguna Madre, La Sal Vieja, and East Main Drain-Frontal Laguna Madre HUC-10 watersheds to better inform the development of strategies using structural and nonstructural measures before a flood event. The long-term goal of this project is to develop the regional knowledge-based decision support infrastructure to identify and promote the implementation of local flood management physical and non-structural controls that maximizes regional benefit. This project complements that of the Lower Rio Grande Valley Development Council (LRGVDC) – the Lower Rio Grande Valley Regional Flood Planning Project (TWDB Project 40038). The Scope of Work for the County's project is structured to be complimentary of Project 40038. The project will include a study of the Upper Pilot Channel-Laguna Madre, La Sal Vieja, and East Main Drain-Frontal Laguna Madre HUC-10 watersheds (1211020803, 1211020804 and 1211020805 respectively) and will analyze approximately 663 sq miles in area and 602 miles of drainage ditches. The study area will be re-delineated using a combination of current LiDAR imagery and available high-resolution Digital Elevation Models, along with burned in data for irrigation canals and drainage ditches. Key project elements: • Historical data collection and validation, • Development of new, or update of existing, geo-referenced hydraulic models (HEC RAS 1D/2D) for selected watersheds for existing condition and selected storm frequencies, • Real Time Hydrologic Stations to locally validate the models developed that will rapidly provide the LRGVDC with the framework to support flood mitigation and planning, • Identification of capital improvement projects that support regional flood management, • Development of specific projects, costs, and benefits for projects to mitigate known areas of flooding. Key project deliverables: • Production of a new hydrologic and hydraulic model (developed to FEMA capture standards, using local drainage criteria), • A regional flood management decision support infrastructure to sustain the adoption of regional flood management projects beyond the life of this project.	Willacy	12110207, 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$1,440,000	No	FIF	2023	Unknown
15000003	15	Lower Rio Grande	Brownsville to Port Isabel HUC-10 Watershed Study, FIF Project Number 40025	Category 1 FIF (FIF13647), Perform a flood planning study of the entire Brownsville Ship Channel HUC-10 watershed to include the areas within the City of Brownsville, Cameron County Drainage District 1 and remote areas of Cameron County drainage systems. The Brownsville Ship Channel watershed aligns with USGS HUC-10 watershed 1211020809, which includes 366 square miles. The proposed study will identify, define, and develop baseline drainage models with ArcGIS using HEC-HMS/RAS hydraulic modeling programs to assess existing flooding risks within the Brownsville Ship Channel Watershed. The 2D hydrologic and hydraulic models will be used to analyze flood conditions for various storm events and develop a 5 and 10-year capital improvement plan for each drainage system. The City's most recent flood studies are the 2006 and 2011 Flood Protection Plan studies that were funded by the TWDB. These hydrologic and hydraulic models, flood analyses, and corresponding capital improvement plans only covered the four southern watersheds serving the City. The existing planning studies and hydrologic and hydraulic model are outdated and require expansion to cover the entire HUC-10. Key elements of the project are: • Hydrologic and hydraulic model development and flood risk assessment, • Planning for impacts of future urbanization in coordination with Cameron County, • Assessment of flood mitigation projects, • Evaluation of benefits for restoration and rehabilitation of stream corridors in partnership with federal agencies., • Consideration of watershed management strategies (guidelines, policy, and/or regulations)	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$1,350,000	No	FIF, local	2022	Unknown
15000004	15	Lower Rio Grande	Harlingen HUC 10 Flood Protection Planning Study, FIF Project Number 40041	Category 1 FIF (FIF13528), The proposed study will examine two HUC-10 watersheds as delineated by the U.S. Geological Survey. This area encompasses over 295 square miles of terrain, 49 centerline miles of the Arroyo Colorado, and over 740 additional centerline miles of existing drainage channels, ditches, irrigation canals, and other appurtenances. Study would incorporate most recent data such as 2018 South Texas LiDAR dataset, NOAA Atlas 14 precipitation estimates, 2018 FEMA flood insurance study, and TWDB base level engineering data.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$5,613,300	No	FIF, local	2023	Unknown
15000005	15	Lower Rio Grande	South Pharr Regional Detention Facility and Drainage Improvements, FIF Project Number 40054	Category 2 FIF (FIF13579), The proposed project includes a regional detention facility in approximately 20 acres of undeveloped land located south of Hidalgo Park Estates Subdivision, east of Anaya Heights Subdivision and north of the South Lateral Drain. The pond will include a pump system to dewater the proposed detention. The project also includes storm drain improvements in the adjacent neighborhoods to direct flow to the proposed detention pond; upgrade of culverts and road crossings; removal and replacement of existing storm sewer to direct the flows from the Hidalgo Park North Ditch to the detention pond; and flap gates to prevent tail water from flowing from the South Lateral Drain into the proposed detention pond and the Hidalgo Park North Ditch. The improvements will complement and enhance Hidalgo County Drainage District No. 1's planned improvements to widen the drainage ditches in the area. Findings from the City of Pharr Master Drainage Project indicate the proposed project will reduce flood risk for all structures within the project area and removes approximately 900 structures from the existing 100-year floodplain. Additionally, modeling shows a benefit of flood risk reduction in water surface elevation to downstream rural communities that live in an area of chronic flooding.	Hidalgo	12110207, 12110208	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$4,510,000	Yes	FIF, local	2023	Unknown
15000006	15	Lower Rio Grande	Impala Drain and Upstream Ditches Improvements, FIF Project Number 40063	Category 2 FIF (FIF13648), The City's two southern-most watersheds, the North Main Drain and Town Resaca, need improvements. Both watersheds outfall into the Port of Brownsville's Ship Channel and discharge is augmented at the Impala Pump Station. The pump station currently cannot pump at its maximum pumping capacity of 540 cubic feet per second (cf/s) because of the ditch's narrow cross-sections and restricting vegetation, which reduce the flow velocities into the pump and limit the discharge volumes. The project consists of improving 6,400 feet of drainage ditch connecting the Impala Pump Station to the Town Resaca near the City's South wastewater treatment plant and the North Main Drain relief lateral extending to the Cameron County Drainage District No. 1 North Main Drain canal. The project will also increase the pumping capacity of the Impala Pump Station to 1,500 cf/s. This will significantly reduce the flooding in the North Main Drain and Town Resaca watersheds.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$9,100,000	Yes	FIF, local	2023	Unknown
15000007	15	Lower Rio Grande	Joint Flood Control Project with WCDD #1, FIF Project Number 40069.	Category 2 FIF, The proposed project includes expansion of 25,000 linear feet of Lateral 'G' by 100 feet. This lateral is the only stormwater outfall for the Sebastian area. It runs from the northern part of Sebastian and discharges at the MFC. The project also includes a 10-acre regional retention pond south of Farm to Market (FM) 506. The pond will mitigate flooding on FM 506 and the Sebastian area.	Willacy	12110207, 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$1,457,571	Yes	FIF, local	2024	Unknown

TABLE 2: SUMMARY OF PROPOSED OR ONGOING FLOOD MITIGATION PROJECTS

Existing Project ID	RFPG No.	RFPG Name	Project Name	Description	Counties	HUC8s	HUC12s	Watersheds	Project Status	Project Cost	Dedicated Funding for Construction (Yes/No)	Source of Funding	Expected Year of Completion	Anticipated Benefit
15000008	15	Lower Rio Grande	Murphy Lateral & South Fork Lateral Regional Detention Ponds, FIF Project Number 40073.	Category 2 FIF (FIF13654), The proposed project, which is located within the North Main Drain watershed, will include an 85.4 acre-foot (ac-ft) regional detention pond on the Murphy Lateral and a 153.4 ac-ft regional detention pond on the South Fork Lateral, both upstream of the City of Primera, as well as improvements to both laterals' channels. The ponds will be grass lined to allow for infiltration into shallow groundwater table and will have outfall pipes to drain the detention storage back to the Murphy and South Fork Laterals. The District recently acquired the two properties for the ponds, which will be part of its in-kind contribution to the project. In addition, 30-inch pipes will be bored under each of the railroad crossings at the Murphy and South Fork Laterals and at another crossing downstream of the railroad crossing along the South Fork Lateral. These improvements are intended to operate in conjunction with other railroad crossing improvements already being implemented to provide flood mitigation and reduction within the City of Primera. Overall, the project will reduce up to 2-feet the level in the 100-year flood area of the project and remove more than 260 structures from the 100-year floodplain.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$4,340,000	Yes	FIF, local	2024	Unknown
15000009	15	Lower Rio Grande	Storm Water System Improvements, FIF Project Number 40078	Category 2 FIF (FIF13725), The proposed project includes improving drainage in the Golf Course Ditch by removing 2,900 lineal feet (LF) of existing 36-inch storm piping, installing 2,850 LF concrete lined channel, and replacing 225 LF of 60-inch storm pipe with 220 LF of two box culverts (6 X 6 feet). Improvements to the ditch system will reduce the water surface level within the City by approximately 5 inches based on the 100-year event and is estimated to reduce damage from 600 to 162 structures.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$1,417,922	Yes	FIF, local	2023	Unknown
15000010	15	Lower Rio Grande	Chacon Creek – Rio Grande Basin Flood Protection Study Option 1, FIF Project Number 40080	Category 1 FIF (FIF13617), conduct a regional flood planning study with a major focus on the Manadas and Zacate Creek watersheds. The proposed Chacon Creek – Rio Grande Basin Flood Protection Study will include the following tasks: • Reevaluation of the entire Manadas and Zacate Creek watersheds; • Study 47 linear miles of channel; • Perform topographic field survey of 1 channel per stream mile; • Perform field survey of approx. 157 bridge/culvert crossings; • New hydrologic model using NOAA Atlas 14 precipitation estimates; • New unsteady 1D/2D hydraulic model of study streams; • An alternative analysis to identify structural and non-structural flood control projects; • A benefit-cost analysis for each alternative evaluated; • Environmental constraints investigation; • Consideration of "Green Infrastructure" and "Water Supply" related alternatives; and • Public outreach to gain input on known flood risks throughout the HUC-10 boundary	Webb	13080002 13080003	121101050401, 121102060103, 121102060105, 121101050502, 121101050601, 121101050602, 130800022303, 130800022304, 130800022305, 130800022401, 130800022402, 130800022403, 130800022404, 130800022405, 130800022601, 130800022602, 130800021506, 130800021405, 130800021902, 130800021903, 130800021904, 130800021905, 130800021907, 130800021909, 130800022301, 130800022302		Ongoing	\$ 585,000	No	FIF, local	2022	Unknown
15000011	15	Lower Rio Grande	North Main Drainage Channel Improvement and Regional Detention Pond, FIF Project Number 40081	Category 2 FIF (FIF13618), The proposed project, which is located within the North Main Drain watershed, will include two regional detention ponds with a total storage of 192 acre-foot (ac-ft) south of the confluence of the North Main Drain and the Wilson Tract Lateral. The pond will be grass lined to allow for infiltration into shallow groundwater table and have outflow pipes to drain the detention storage back to the North Main Drain. The District already owns the properties for the ponds. The project also includes channel improvements to the North Main Drain, from Briggs-Coleman Road down to Farm-to-Market 507, including concrete lining of the channel. The project will reduce flood elevations and flood damages for residential and commercial properties.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$5,003,000	Yes	FIF, local	2024	Unknown
15000012	15	Lower Rio Grande	Sibley Lateral Regional Detention Pond, FIF Project Number 40082	Category 2 FIF (FIF13619), The proposed project, which is located within the North Main Drain watershed, includes a 313 acre-foot (ac-ft) regional detention pond along the Sibley Lateral upstream of Wilson Road. The pond will be grass lined to allow for infiltration into shallow groundwater table and will have outflow pipes to drain the detention storage back to the Sibley Lateral. The project also includes improvements to the Sibley Lateral channel to reduce flood elevations. The project will improve flood waters retainage and conveyance to reduce flood risk to private property both upstream and downstream of the project area, particularly to the City of Palm Valley downstream. The project will further support the City's planned stormwater improvements project along the Palm Valley golf course to reduce flood risk in the city.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$3,560,000	Yes	FIF, local	2024	Unknown
15000013	15	Lower Rio Grande	Raymondville Ditch, FIF Project Number 40089	Category 2 FIF (FIF13732), The proposed project includes 1) extension of drainage pipes from Wood Street into Willacy County's proposed detention pond for which the County is separately seeking FIF funding and 2) downstream of the County's proposed detention pond, construction of linear detention on a property that was purchased by the City in 2020, which was an abandoned railroad spur track just west of US Business Highway 77. The project will reduce flooding areas along the City's south side and west of the existing railroad.	Willacy	12110207 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$ 885,551	Yes	FIF, local	2022	Unknown

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15000014	15	Lower Rio Grande	Ditch One Regional Detention Drainage Improvement Project, FIF Project Number 40090	Category 2 FIF (FIF13785), The District's Ditch One watershed, generally defined by the headwaters of Ditch One downstream to Interstate Highway (IH) 69, including the elevated storage reservoir, has chronic flood problems. The District needs to identify sufficient regional detention facilities upstream of IH-69 to allow the 100-yr and 500-yr flood events to pass fully under IH-69. Currently, IH-69 has two crossings, each with one box culvert, that need improvement. In addition, some upstream and downstream mitigation measures are needed to avoid creating the flooding issues further downstream. With this project, the District will first identify drainage improvements necessary to reduce flood risk along Ditch One, and second, it will design and construct the identified improvements. The planning phase will evaluate the potential for optimizing undeveloped areas along the main channel for regional detention; reevaluate existing flood storage areas that have not been formally made into detention facilities; conduct a detailed hydrologic and hydraulic model for this portion of the watershed; evaluate channel widening alternatives along the main channel of Ditch One, both upstream and downstream of IH-69; and identify culvert improvements at IH-69 and railroad crossings of Ditch One within the study watershed boundary, with appropriate mitigation measures. The regional detention ponds considered will be evaluated to have an earthen bottom and incorporate wetland features to allow for some infiltration into the shallow groundwater table. Channel improvements identified may include widening and other nature-based improvements, including soil wrap side slopes, vegetation plantings, and riparian restoration measures. Once the planning phase is completed, the District will design and construct enhanced regional detention improvements for approximately 109 acres of existing low-lying open areas, with the goal of detaining larger, more disastrous flood flows and letting lower flows by-pass.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$1,260,000	Yes	FIF, local	2024	Unknown
15000015	15	Lower Rio Grande	La Sara Gates, FIF Project Number 40094.	Category 2 FIF (FIF13776), The proposed project includes construction of five drainage control gate structures at two locations along the NRD. The first site is located near the intersection of County Road 141 and FM Road 1761 and includes the installation of two drainage control gates, on the east side of the bridge and one on the north west side. The second site is located near the intersection of Rancho Carlo Road and County Road 3700 W and includes two drainage control gates located on the east side of the bridge. By restoring the functionality of the flood control gates, it will minimize flooding in the areas adjacent to the NRD when high flows are present due to flood events upstream of this location. The area to be served by the proposed project is designated as farmland and will continue to be used for agriculture for the foreseeable future. Willacy County will be responsible for the operation and maintenance of the gate structures.	Willacy	12110207, 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$ 87,238	Yes	FIF, local	2023	Unknown
15000016	15	Lower Rio Grande	Linear Detention and Pipe, FIF Project Number 40095	Category 2 FIF (FIF13775), The proposed project includes construction of linear detention by expanding 1,400 linear feet (LF) of an existing drainage ditch and constructing 2,100 LF of additional linear detention to increase stormwater storage and mitigate 100-year flood events. The project also includes installation of 30-inch reinforced concrete pipe and inlets to connect the two sections of linear detention. The expansion of the existing drainage ditch will allow water to flow away from the City and into the NRD. The County will own and operate the project.	Willacy	12110207, 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$ 268,777	Yes	FIF, local	2023	Unknown
15000017	15	Lower Rio Grande	Lyford Trunkline, FIF Project Number 40096	Category 2 FIF (FIF13823), The proposed project includes construction of a 3,720-linear-foot stormwater trunk line that will run along the eastern side of Business 77 from FM Road 498 and include Type A inlet to help collect the runoff of the area. The trunkline will be a 48-inch reinforced concrete pipe and will ultimately drain to the West Main Drainage Ditch, south of FM 491 West. At the outlet, a headwall will be used to help with erosion control. The project will be located outside the City limits and will be owned and operated by the County.	Willacy	12110207, 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$ 889,350	Yes	FIF, local	2023	Unknown
15000018	15	Lower Rio Grande	Simo Lift Station, FIF Project Number 40097	Category 2 FIF (FIF13773), The proposed project includes rehabilitation of an existing stormwater lift station and the construction of new linear drainage detention. Rehabilitation at the lift station includes upgrading the pump and rerouting of the force main into the proposed linear detention. The lift station, which is owned by the City, will outfall via the new linear detention into an existing 44-acre earthen detention pond. The project includes approximately 1,300 feet of linear detention along County Road 1900 East, 90-foot culvert across Co Rd 1900, and 1,800 feet of linear detention north to the existing detention pond. Upon completion of the project, the City will be responsible for the operation and maintenance of the lift station	Willacy	12110207, 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$ 564,498	Yes	FIF, local	2023	Unknown
15000019	15	Lower Rio Grande	Mulberry Detention Pond, FIF Project Number 40100	Category 2 FIF (FIF13772), The proposed project includes construction of a detention pond in 16 acres of undeveloped land along Mulberry Road (County Road 1300), east of Business 77 and US highway 77; 2,200 feet of linear stormwater detention from the proposed detention pond, running east to connect to a 24-inch reinforced concrete pipe that will go under US Highway 77 and ultimately discharge at the existing drainage ditch located between County Roads 215 and 310.	Willacy	12110207, 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$1,468,578	Yes	FIF, local	2023	Unknown
15000020	15	Lower Rio Grande	Sebastian Drainage Improvements, FIF Project Number 40101.	Category 2 FIF (FIF13770), The proposed project includes the creation of linear detention by expanding 2,500 linear feet of the existing lateral drainage ditch along E. Paulin Street, east of US Hwy 77; expansion of street pavement to include curbs, gutters, and storm drain system; and rerouting of existing drainage structures to the proposed linear detention	Willacy	12110207, 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$4,911,456	Yes	FIF, local	2023	Unknown
15000021	15	Lower Rio Grande	North Stewart Boulevard Drainage Improvement, FIF Project Number 40112	Category 2 FIF (FIF13550), The proposed project will construct 6,600 linear feet (LF) of an 8x4 foot reinforced concrete box for the conveyance of stormwater from the Val Verde Acres subdivision to the outfall at the existing detention pond at Josefa Garcia Park; installation of new curb inlets along Stewart Road, Polk Avenue, Madison Avenue, Diamondhead Avenue, and within the Palm Lake Estates subdivision. In addition, the project will also include nature-based solutions: retrofit of an existing 4-acre retention pond in the Palm Lake Estates subdivision into a wetland/bioretention pond to better manage runoff from high frequency storm events and provide settlement of pollutants prior to discharge; and construction of about 1,500 LF of bioswales along N. Stewart Road and Bryan Road to provide additional water quality benefits. As a result of the proposed project, 91 and 55 structures will no longer be in 10-year and 100-year floodplains, respectively. The proposed project will also reduce flood risk, improve roadways and travel conditions, improve water quality, and reduce infiltration and inflow to the wastewater collection system during flood events.	Hidalgo	12110207, 12110208	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$8,500,000	Yes	FIF, local	2024	Unknown

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15000022	15	Lower Rio Grande	Kansas and Los Torritos Drainage Improvements to Mayor Pablo Pena Park - Phase 1, FIF Project Number 40114	Category 3 FIF, This project proposes to design and construct major drainage improvements including a detention pond and a 48-inch outfall structure as well as 1,900 linear feet of channel widening that will reduce severity of repetitive flooding to 1,217 structures and remove 169 structures from the 100-year flood plain.	Hidalgo	12110207 12110208	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$4,967,708	Yes	FIF, HMGP (FEMA/TDEM), local	2023	Unknown
15000023	15	Lower Rio Grande	City of Harlingen 9th & 13th Street Drainage Improvements, FIF Project Number 40115	Category 3 FIF (FIF13687), This project proposes to upgrade storm sewer systems, which will mitigate 327 commercial and residential lots and streets within the city's main retail/commercial zones from future flood risk. The upgrades consist of removing of the undersized drainage system and replacing it with 5,803 linear feet of reinforced concrete pipe, 27 junction boxes, and 46 inlets. In addition, the city will implement Storm Water Pollution Prevention Plan measures for water quality control as part of the upgrades. Any utility adjustments and restoration of street pavement will be completed as needed. The proposed storm sewer lines will increase capacity of the upstream section of the existing drainage system, and the downstream system has enough capacity to handle the increase, thus reducing flooding.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$1,686,744	Yes	FIF, HMGP (FEMA/TDEM), local	2021	Unknown
15000024	15	Lower Rio Grande	Water Treatment Plant Relocation Study, FIF Project Number 40119	Category 2 FIF (FIF13557), Due to the City's insufficient drainage system, the City's existing water treatment plant experiences seasonal flooding. A preliminary analysis indicates the area has the potential to be hazardous during storm events with magnitudes of 10-years and greater. A detailed hydrologic and hydraulic study is needed to determine alternatives to alleviate city-wide flooding and reduce flood risk at the proposed water treatment plant. The proposed project will complete a flood study and provide a two-dimensional (2D) hydrologic and hydraulic model of the affected drainage basin within the South Laguna Madre watershed. The study will account for existing drainage conditions and recommend relocation alternatives for the City's water treatment plant. Each recommendation will be based on the drainage system's performance during critical storm frequencies up to the 500-year storm using the best available data.	Hidalgo	12110207 12110208	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$ 250,000	Yes	FIF, local	2023	Unknown
15000025	15	Lower Rio Grande	Lyford HMGP Match Funds, FIF Project Number 40138	Category 3 FIF (FIF13780), The City's HMGP application has been awarded funding by the Texas Division of Emergency Management and the Federal Emergency Management Agency to address the effects of multiple severe storm events over the past five years that were declared federal disasters. Rainfall from these events caused heavy flooding in large areas of the City and the drainage ditches used to convey flood water out were overwhelmed to the point that flood waters back-flowed into the City. Dozens of residents sustained damage to their homes, as well as schools and streets. HMGP provides up to 75 percent federal funding with the remainder of project costs covered by the local (percent) match. The project proposes to acquire property for a storm detention area; construct a detention pond; install drainage piping and connections from the proposed detention pond and existing pump station to the drainage canal; and install a pump station to evacuate the detention pond and associated appurtenances, which will include storm sewer manholes, check valves, head walls, and paving. The detention pond will serve as additional capacity, while the proposed pump structure evacuates the pond and drainage ditches into the Hidalgo Drainage System. The pump structure will increase flow outwards and prevent flood waters from neighboring areas to flow into the City.	Willacy	12110207 12110208	121102070100, 121102080300, 121102080400, 121102080500		Ongoing	\$ 750,216	Yes	FIF, HMGP (FEMA/TDEM), local	2022	Unknown
15000026	15	Lower Rio Grande	Primera Drainage Master Plan, FIF Project Number 40139.	Category 2 FIF (FIF13731), The proposed study will develop a comprehensive plan to address critical drainage problems within city limits. The study will develop a comprehensive evaluation of existing drainage conditions; provide inventory and mapping of existing drainage infrastructure; review applicable local, state, and federal regulations; analyze known and potential flooding issues; conduct a hydrological and hydrographic model; prepare a capital improvements plan that includes budget estimates for proposed improvements; and evaluate funding mechanisms for capital improvements plan projects. The City is also planning to develop a floodplain management program to fulfill additional requirements	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$ 300,000	Yes	FIF, local	2021	Unknown
15000027	15	Lower Rio Grande	Storm Sewer and Drainage System GIS Mapping and Hydraulic Study, FIF Project Number 40140	Category 2 FIF (FIF13716), The City's existing storm sewer system has been developed over the span of many decades and consists of many different sections and components, including storm drains and ditches. The City does not have a complete and cohesive city-wide storm system mapping, and the maps they have are not in a digital GIS format. The City's existing drainage ditches, which are not mapped, are an intrinsic and critical component of the citywide drainage infrastructure because much of the isolated storm sewer systems outfall into these ditches. Mapping and hydraulic analysis of the City's drainage system are needed to help as planning tools and to assist in the analysis of flood-prone areas. These mapping tools are essential when making decision regarding drainage and flood mitigation infrastructure improvements. The City's proposed GIS mapping project consists of surveying, documenting, and collecting crucial data pertaining to the various components of the City's storm sewer system. Important data to be collected and incorporated into the GIS Mapping include depth of the catch basins, grate sizes, direction of flow, pipe size and depth, pipe materials, and notes regarding the current state of the existing infrastructure. The data will then be transferred into a digital interactive map of the City allowing users the ability to navigate throughout the map and select a specific point that will reflect all the data collected at that point in the system.	Hidalgo		121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$ 75,000	Yes	FIF, local	2021	Unknown
15000028	15	Lower Rio Grande	Cameron County Paso Real Drainage, FIF Project Number 40156	Category 2 FIF (FIF13662), The project proposes to remove the overbrush in the resaca and converting the Resaca into a detention pond by constructing a weir system with a 48-inch outfall pipe to convey floodwaters into Cameron County Drainage District's ditches to the northwest of the subdivision. This will protect and prevent floodwater from entering the subdivision causing flooding of these residential structures.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$1,470,181	Yes	FIF, local	2022	Unknown
15000029	15	Lower Rio Grande	SCADA Control Systems, FIF Project Number 40158	Category 2 FIF (FIF13649), The proposed project will construct 21 SCADA monitoring and control stations throughout the City's resacas, construct detention pond improvements with automated overflow controls for small storm events, and install several water level and rainfall data collection points to be integrated with the City of Brownsville's flood model. Some of these SCADA control locations will add automated flow control to existing valve structures controlling resaca water levels. The proposed improvements will increase stormwater basin capacities and extend the effectiveness of existing storm water detention to help reduce the effects of flooding during smaller storm events.	Cameron	12110208	121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$4,000,000	Yes	FIF, local	2022	Unknown

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Existing Project ID	RFPG No.	RFPG Name	Project Name	Description	Counties	HUC8s	HUC12s	Watersheds	Project Status	Project Cost	Dedicated Funding for Construction (Yes/No)	Source of Funding	Expected Year of Completion	Anticipated Benefit
15000030	15	Lower Rio Grande	Regional Detention Pond Project 2 Phase 1B, FIF Project Number 40171	Category 2 FIF (FIF13559), The proposed project, which is Phase 1B of the City's storm water improvements plan, includes construction of an 11-acre storm water detention pond on property currently owned by the Weslaco Independent School District (WISD). The detention pond will be constructed with a level bottom to allow for the possible installation of future soccer fields and other recreational space. Both the WISD and the City will maintain and provide the upkeep of the proposed storm water detention pond. The proposed project will remove approximately 209 houses from the 10-year floodplain.	Hidalgo	12110207, 12110208	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$3,040,000	Yes	FIF, local	2023	Unknown
15000031	15	Lower Rio Grande	Raymondville Drain Project, DFund Project Number 21770	Raymondville Drain Project, DFund Project Number 21771	Willacy				Ongoing	\$7,000,000	Yes	DFund, local	2025	Unknown
15000032	15	Lower Rio Grande	City of Laredo Project 1	Improvements to San Isidro Southwest Detention Pond to include Flag Football fields, grading, low water crossing, RW and irrigation	Webb	13080002, 13080003	121101050301, 121101050401, 121102060103, 121102060105, 121101050502, 121101050601, 121101050602, 130800022303, 130800022304, 130800022305, 130800022401, 130800022402, 130800022403, 130800022404, 130800022405, 130800022601, 130800022602, 130800021506, 130800021405, 130800021902, 130800021903, 130800021904, 130800021905, 130800021907, 130800021909, 130800022301,		Ongoing	\$ -	Yes	Local Funds	2023	Unknown
15000033	15	Lower Rio Grande	City of Laredo Project 2	Drainage Improvements at Bibliotech at Ana Maria Lozano	Webb	13080002, 13080003	121101050301, 121101050401, 121102060103, 121102060105, 121101050502, 121101050601, 121101050602, 130800022303, 130800022304, 130800022305, 130800022401, 130800022402, 130800022403, 130800022404, 130800022405, 130800022601, 130800022602, 130800021506, 130800021405, 130800021902, 130800021903, 130800021904, 130800021905, 130800021907, 130800021909, 130800022301,		Ongoing	\$ -	Yes	Local Funds	2023	Unknown

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15000034	15	Lower Rio Grande	City of Laredo Project 3	Flores St. Drainage and Utility Improvements	Webb	13080002 , 13080003	121101050301, 121101050401, 121102060103, 121102060105, 121101050502, 121101050601, 121101050602, 130800022303, 130800022304, 130800022305, 130800022401, 130800022402, 130800022403, 130800022404, 130800022405, 130800022601, 130800022602, 130800021506, 130800021405, 130800021902, 130800021903, 130800021904, 130800021905, 130800021907, 130800021909, 130800022301, 130800022302		Ongoing	\$ -	Yes	0	2023	Unknown
15000035	15	Lower Rio Grande	Flume Improvement Project	The project consists of improving an existing concrete, open-channel flume structure on the District's main canal with a new double 54-inch diameter PVC pipeline encased in two 72-inch diameter steel casings. The District estimates that the proposed project will increase capacity from 90 to 150 cu ft/sec, which is sufficient to meet the District's full water demands.	Cameron				Ongoing	\$ 865,000	Yes	DFund, local	2023	Unknown
15000036	15	Lower Rio Grande	City of Laredo Project 5	City of Laredo Citywide Drainage Improvement Project including: Chacon Creek, Summer Retention Pond, Zacate Creek, Ponderosa, San Jose, Manadas / Manadas West, Bristol Road, Muller Pond Spillway, Springfield Extension.	Webb	13080002 , 13080003	121101050301, 121101050401, 121102060103, 121102060105, 121101050502, 121101050601, 121101050602, 130800022303, 130800022304, 130800022305, 130800022401, 130800022402, 130800022403, 130800022404, 130800022405, 130800022601, 130800022602, 130800021506, 130800021405, 130800021902, 130800021903, 130800021904, 130800021905, 130800021907, 130800021909, 130800022301, 130800022302		Ongoing	\$6,000,000	Yes	Local Funds	2023	Unknown
15000037	15	Lower Rio Grande	3 3/4 Mile Rd. & Shuerbach Rd. (Pct3)_2018 Bond Project 2	Construction Of A Drainage Ditch And Roadway Culvert Crossing Extending From East N. Schuerbach Rd. To East Los Ebanos Rd. Into Linda Vista Drainage Ditch.	Hidalgo	12110207 , 12110209	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$2,235,749	Yes	Local Funds	2023	Unknown

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15000038	15	Lower Rio Grande	East Mercedes (Pct1)_2018 Bond Project 10	Channel And Culvert Improvements To The Drainage Ditches Located In The Vicinity Of Fm 2556, Extending From North Of Expressway 83 South To The Arroyo.	Hidalgo	12110207 , 12110217	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$6,495,192	Yes	Local Funds	2023	Unknown
15000040	15	Lower Rio Grande	Faysville Drain (Pct4)_2018 Bond Project 11	Project Consists Of The Extension Of A Drainage Ditch That Was Created To Provide An Outfall For Us 281/I-69C, The Community Of Faysville And Surrounding Areas. Faysville Drain Will Ultimately Outfall Into The Proposed Raymondville Drain.	Hidalgo	12110207 , 12110219	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$6,902,445	Yes	Local Funds	2023	Unknown
15000041	15	Lower Rio Grande	Brownsville Stormwater Improvements, CWSRF Project 73848	The City proposes to implement several mitigation and preservation type projects. The project components include the construction of a Park/Detention pond system (Waterplein Park); reconstruction of a stormwater pump station; several culvert improvements, including addition of Supervisory Control and Data Acquisition (SCADA) system; and improvements to several flood control infrastructure in the West Brownsville area. These projects are intended to mitigate flooding and drainage risks in the area.	Cameron				Ongoing	#####	Yes	CWSRF	2023	Unknown
15000042	15	Lower Rio Grande	Hidalgo Drain (Pct2)_2018 Bond Project 13	Upgrade Existing Culvert Structures, Cleaning, Regarding, And Widening Of The Existing Ditch To Increase Linear Detention And Positive Flow To The Outfall At The Mission Inlet.	Hidalgo	12110207 , 12110222	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$1,500,000	Yes	Local Funds	2023	Unknown
15000043	15	Lower Rio Grande	J-08 Drain (Pct4)_2018 Bond Project 15	The Project Consists Of Improving The Existing J-08 Drainage Ditch By Acquiring New Right Of Way, Regrading, Widening And Creating A Maintenance Bench.	Hidalgo	12110207 , 12110224	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$7,032,968	Yes	Local Funds	2023	Unknown
15000044	15	Lower Rio Grande	Jackson Rd. Drain (Pct2)_2018 Bond Project 16	Channel And Culvert Widening Of The Drainage System, Including The Addition Of A Culvert Crossing. The Project Will Also Create Gated Structures And Portable Pump Staging Area That Will Provide Continual Discharge Into The Mission Inlet To Relieve Area Flooding.	Hidalgo	12110207 , 12110225	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$3,618,750	Yes	Local Funds	2023	Unknown
15000045	15	Lower Rio Grande	Mile 10 N & Mile 1 W (Pct1)_2018 Bond Project 21	Channel And Culvert Improvements To The Major Drainage Ditch For The Area. New Storm Drainage System With Associated Detention Ponds For Two Residential Areas Along Mile 11 N.	Hidalgo	12110207 , 12110230	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$4,482,168	Yes	Local Funds	2023	Unknown

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15000046	15	Lower Rio Grande	Mile 11 N & FM 1015 (Pct1)_2018 Bond Project 22	Channel And Culvert Improvements To The Drainage Ditch Network For The Area. Four New Regional Detention Ponds To Relieve Area From Flooding.	Hidalgo	12110207 , 12110231	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	#####	Yes	Local Funds	2023	Unknown
15000047	15	Lower Rio Grande	Mile 11 N & Texas Boulevard (Pct1)_2018 Bond Project 23	Mile 11 N & Texas Boulevard Channel And Culvert Improvements To The Drainage Ditch Network For The Area. New Storm Drainage System Along Beto Garcia, Tahiti And Samoa Drive And Four Detention Ponds To Relieve Area Flooding.	Hidalgo	12110207 , 12110232	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	#####	Yes	Local Funds	2023	Unknown
15000048	15	Lower Rio Grande	Mission-McAllen Rado Alternate (Pct2)_2018 Bond Project 25	Culvert And Channel Improvements Will Include A Culvert Along Colbath Ave And Taylor Rd Right-Of-Way And A New Outfall Ditch At The Mission Inlet Drain Ditch.	Hidalgo	12110207 , 12110234	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	\$7,181,250	Yes	Local Funds	2023	Unknown
15000049	15	Lower Rio Grande	Mission Lateral (Pct3)	Proposed Widening, Culvert Crossing And Detention Facilities To Increase Linear Detention And Functionality Of Existing Mission Lateral Drainage Ditch.	Hidalgo	12110207 , 12110235	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311		Ongoing	#####	Yes	Local Funds	2023	Unknown
15000050	15	Lower Rio Grande	3 1/4 Mile Rd. & N. Bentsen Palm Dr. _2018 Bond Project 1	Regrade of roadside ditch and installation of driveway culverts along North Bentsen Palm Dr., approximately 3,500 ft. North of Buddy Owens Blvd (Mile 3).	Hidalgo				Ongoing	\$ 80,434	Yes	Local Funds	2023	Unknown
15000051	15	Lower Rio Grande	Ditch 023 Us 83 in Mercedes	The Proposed Improvements Along Ditch 023 Will Provide Additional Relief To Both Hidalgo And Cameron County. Ditch 023 Carries Water Through Hidalgo And Cameron County To The Arroyo Colorado. The Improvements Would Provide Relief To Cameron County Within Ditch 023'S Drainage Areas.	Hidalgo, Cameron	12110207 , 12110231 , 12110208	121102070100, 121102080100, 121102080200, 121102080300, 121102080400, 121102080600, 130900011701, 130900011704, 130900011705, 130900011706, 130900020311, 121102080300, 121102080600, 121102080700, 121102080800, 121102080900		Ongoing	\$1,900,000	Yes	Local Funds	2023	Unknown
15000052	15	Lower Rio Grande	4 1/2 Mile Rd. & N. Doffing Rd. _2018 Bond Project 3	Construction of a drainage ditch with culvert crossings between N. Doffing Rd. and N. Minnesota Rd. running south to north from Mile 4 into West Main Drain III.	Hidalgo				Ongoing	\$ 950,974	Yes	Local Funds	2023	Unknown
15000053	15	Lower Rio Grande	4 Mile Rd. & Minnesota Rd. _2018 Bond Project 4	Regrade of roadside ditch and storm drainage system running North along Doffing Rd. and through proposed easements to outfall into a proposed drain ditch and ultimately into Linda Vista drain.	Hidalgo				Ongoing	\$ 259,531	Yes	Local Funds	2023	Unknown
15000054	15	Lower Rio Grande	5 1/2 Mile Road & N. Bentsen Palm Drive. _2018 Bond Project 5	Proposed construction of drainage swales, regrading of roadside ditches and installation of roadway culverts along N. Bentsen Palm Dr. to accommodate excess runoff from low areas.	Hidalgo				Ongoing	\$ 80,434	Yes	Local Funds	2023	Unknown
15000055	15	Lower Rio Grande	7 1/2 Mile Rd. & Glasscock Rd. _2018 Bond Project 6	Proposed storm drainage system along existing roadway ROW connecting to a future TxDOT system.	Hidalgo				Ongoing	\$ 354,375	Yes	Local Funds	2023	Unknown

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15000056	15	Lower Rio Grande	7 1/2 Mile Rd. & Western Rd._218 Bond Project 7	Construction of a drainage ditch, roadway culvert crossings and storm drainage system to increase additional detention volume to the existing J-08 drainage ditch.	Hidalgo				Ongoing	\$ 340,938	Yes	Local Funds	2023	Unknown
15000057	15	Lower Rio Grande	Anaquitas_2018 Bond Project 8	Channel and culvert improvements to the Anaquita Drain ditch from Business 83 south to the Arroyo. Channel and culvert improvements are also recommended upstream of this drain, starting at Baseline Road and South James Drive in Mercedes.	Hidalgo				Ongoing	\$7,670,000	Yes	Local Funds	2023	Unknown
15000058	15	Lower Rio Grande	Delta Regional Reservoir_2018 Bond Project 9	Construction of a 200+ acre off-line detention pond near Mile 17 North and Uncle Peters Road to mitigate flooding up and downstream of the Main Floodwater Channel Drain.	Hidalgo				Ongoing	#####	Yes	Local Funds	2025	Unknown
15000059	15	Lower Rio Grande	FM 493 & Country Road_2018 Bond Project 12	New storm drainage system for the neighborhoods located between South River Road and surrounding the Chaparral Drain.	Hidalgo				Ongoing	\$1,305,000	Yes	Local Funds	2023	Unknown
15000060	15	Lower Rio Grande	Highway 281 & FM 88_2018 Bond Project 14	Proposed storm water pump station located near Ranchitos de Progreso subdivision at the intersection of FM88 & Highway 281.	Hidalgo				Ongoing	\$1,452,000	Yes	Local Funds	2023	Unknown
15000061	15	Lower Rio Grande	Las Milpas_2018 Bond Project 17	Drainage system and culvert improvements will include the widening of drain ditches leading up to the outfall points at the South Lateral Drain, which will relieve the area of flooding.	Hidalgo				Ongoing	\$1,922,500	Yes	Local Funds	2023	Unknown
15000062	15	Lower Rio Grande	Malone Drive & Pomelo Road_2018 Bond Project 18	New storm drainage system for the neighborhood northeast of Pomelo Road and Malone Drive.	Hidalgo				Ongoing	\$ 609,000	Yes	Local Funds	2023	Unknown
15000063	15	Lower Rio Grande	Mid Valley Airport_2018 Bond Project 19	Channel and culvert improvements to the drainage ditch network for the area. New storm drainage system and detention ponds for Joe Stephens Avenue and the neighborhood east of the airport to relieve area flooding.	Hidalgo				Ongoing	\$7,615,920	Yes	Local Funds	2023	Unknown
15000064	15	Lower Rio Grande	Mile 10 N & Baseline Road_2018 Bond Project 20	Channel and culvert improvements to the major drainage ditch south of the neighborhood area. New storm drainage system for the neighborhood and a detention pond on the south to relieve from area flooding.	Hidalgo				Ongoing	\$1,899,136	Yes	Local Funds	2023	Unknown
15000065	15	Lower Rio Grande	Mile 9 N & FM 1015_2018 Bond project 24	Channel and culvert improvements to the drainage ditch network for the area, including the extension of an existing drainage ditch. New storm drainage system and associated detention ponds for Las Brisas, Chapa subdivisions and Onyx Drive neighborhoods.	Hidalgo				Ongoing	#####	Yes	Local Funds	2023	Unknown
15000066	15	Lower Rio Grande	Cameron County Drainage District No. 3 Flood Protection Study, FIF Project Number 40023	This new study will include new hydrologic and hydraulic modeling of the entire drainage district boundary, including all of the district drainage ditches, as well as all the other municipality drainage ditches that lay within the overall drainage district boundary. The goal of this project is to evaluate flood risk for the entire study area using more robust unsteady and 2-dimensional hydraulic modeling (where needed) coupled with a refined hydrologic analysis with defined sub-watersheds. This project will include a study of 320 linear miles of channel, topographic field survey of 1 channel section per stream mile, and field survey of 451 bridge/culvert crossings. This project will result in a new hydrologic and hydraulic model, an alternative analysis to identify structural and non-structural flood control projects, a benefit-cost analysis for each alternative evaluated, three (3) public meetings, three (3) stakeholder meetings, and a final engineering report documenting the analysis performed and recommendations made. This project will also include an effort to assist with identifying and improving upon regional real-time flood warning measures that could be implemented in the future, and also assist with identifying potential future funding sources for construction of identified flood reduction and improved channel conveyance projects. A bulleted list of project elements/components is provided below: <ul style="list-style-type: none"> •New hydrologic model using NOAA Atlas 14 precipitation estimates; •New unsteady 1D/2D hydraulic model of study streams; •New field survey (where needed); •Flood reduction alternative analysis; •Benefit-cost analysis; •Environmental constraints investigation; •Consideration of "Green Infrastructure" and "Water Supply" related alternatives; and •Public outreach to gain input on known flood risks throughout HUC-10 boundary 	Cameron				Ongoing	#####	No	FIF, local	2023	Unknown
15000067	15	Lower Rio Grande	Monte Cristo Rd. & Conway Rd., 2018 Bond Project 27	Addition of detention facilities, culvert crossings and cleaning improvements of existing drainage ditch.	Hidalgo				Ongoing	#####	Yes	Local Funds	2023	Unknown
15000068	15	Lower Rio Grande	Phase 1 Flood Control Project, FIF Project Number 40031	Description: The proposed project is located between Mile 9 North, Mile 15 North, FM 493, and the IBWC floodway, an area containing approximately 18,600 acres, just north of the city of Weslaco. The project has been divided into four segments that interconnect and drain into the two outfalls that drain into the IBWC floodway. The construction of each segment is composed of channel excavation, regional detention pond excavation, embankment, gate well control structure, pump and controls, concrete rip rap, reinforced concrete boxes, and reinforced concrete pipe. The rights-of-way are limited in the area; therefore, land acquisition is included in the project. The improvements will benefit over 400 structures in the area. The project will reduce the water surface elevation by more than 1.5 feet and it will increase the storage and discharge capacity of the storm system.	Hidalgo				Ongoing	#####	Yes	FIF, local	2023	Unknown
15000069	15	Lower Rio Grande	Lower Rio Grande Valley Regional Flood Protection Planning, FIF Project Number 40038	The Lower Rio Grande Valley Development Council (Council) is requesting financial assistance to conduct a regional flood planning study. The Lower Rio Grande Valley Regional Flood Protection Planning study proposes to address flood planning needs through the following tasks: <ul style="list-style-type: none"> •Contribute to and facilitate regional administrative coordination; •Conduct, coordinate and integrate the results of multiple FIF Category 1 project tiered hydrologic and hydraulic studies for possible future use in FEMA Flood Risk assessments; •Commission a network of real time hydrologic stations within the region's major drainage network to gather data necessary for hydrologic and hydraulic modeling; •Expand the regional clearinghouse of hydrologic, hydraulic, socio-economic data, along with a database of regional structural and non-structural projects; •Identify local structural and non-structural controls; •Promote the development and adoption of regional drainage policies and flood response and resiliency coordination networks to minimize and mitigate the impact of local flooding; and •Assess the feasibility of capital improvement projects identified along with cost-benefit analyses. <p>With improved drainage data, collaboration, and capacity, the Lower Rio Grande Valley Regional Flood Protection Planning Project seeks to advance the regions' resilience and robustness to flooding events.</p>	Cameron				Ongoing	#####	No	FIF, local	2024	Unknown
15000070	15	Lower Rio Grande	Old La Blanca & Mile 10 N_2018 Bond Project 28	New storm drainage system along De Los Rios Avenue and Encino Drive.	Hidalgo				Ongoing	\$ 496,000	Yes	Local Funds	2023	Unknown

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15000071	15	Lower Rio Grande	Railroad Spur Drainage Detention Area, FIF Project Number 40048	The proposed project includes improvements to 11.45 acres of undeveloped, County-owned land along the railroad spur created from the track that runs parallel to US Hwy 77, and a decommissioned branch that runs in the perpendicular direction. The land will be developed into a bird sanctuary or nature park with a two-acre-foot detention pond in the center. The project will also include regrading, rerouting, and reinstallation of existing storm drainpipes, drainage structures, and culvert pipes to the proposed pond.	Willacy				Ongoing	#####	Yes	FIF, local	2023	Unknown
15000072	15	Lower Rio Grande	Flood Early Warning System, FIF Project Number 40062	This project proposes to create a Flood Early Warning System for Val Verde County by installing flood monitoring equipment at 8 sites and a Communication Tower. Upon completion of this project, Val Verde County will have ability to disseminate messages pertaining to the health, safety, or welfare to its citizens when affected by an emerging, or imminent flood event.	Val Verde				Ongoing	\$ 500,000	Yes	FIF, local	2023	Unknown
15000073	15	Lower Rio Grande	PD-Lateral_2018 Bond Project 29	Construction of a drainage ditch with roadway crossings to outfall into existing Peñitas drainage ditch.	Hidalgo				Ongoing	\$4,586,474	Yes	Local Funds	2023	Unknown
15000074	15	Lower Rio Grande	Peñitas Drain_2018 Bond Project 30	Extension of Peñitas Drain consisting of a construction of a drainage ditch with roadway crossings.	Hidalgo				Ongoing	\$5,393,595	Yes	Local Funds	2023	Unknown
15000075	15	Lower Rio Grande	Pharr-McAllen Drain_2018 Bond project 31	New storm drainage system and culvert improvements will include the addition of culverts at the Irrigation Canal and Ridge Rd crossings to increase capacity.	Hidalgo				Ongoing	\$ 891,250	Yes	Local Funds	2023	Unknown
15000076	15	Lower Rio Grande	Raymondville Drain_2018 Bond Project 32	Project consists of a new drainage ditch connecting to existing channels. Existing channels will be improvements to the approximate 63-mile drainage system of in-line and off-line detention, reservoirs, and control structures that stretches from Edinburg Lake (Hidalgo Co.) to the Laguna Madre (Willacy Co.).	Hidalgo				Ongoing	#####	Yes	Local Funds	2023	Unknown
15000077	15	Lower Rio Grande	South "I" Road Detention_2018 Bond Project 33	New detention facilities to mitigate flooding and store potentially damaging floodwaters temporarily until the channels can safely carry the water away.	Hidalgo				Ongoing	\$4,408,000	Yes	Local Funds	2023	Unknown
15000078	15	Lower Rio Grande	South Lateral Drain_2018 Bond Project 34	Widening of the channel to expedite drain flow, and the addition of detention facilities at the upstream end connecting to the Main Floodway.	Hidalgo				Ongoing	#####	Yes	Local Funds	2023	Unknown
15000079	15	Lower Rio Grande	Southwest Weslaco_2018 Bond Project 35	Channel and culvert improvements to the drainage ditch network for the area. New regional storm drainage detention ponds and sump detention ponds with pumping stations at the Floodway.	Hidalgo				Ongoing	#####	Yes	Local Funds	2023	Unknown
15000080	15	Lower Rio Grande	Willacy County Drainage District No. 2 Regional Detention Facilities, FIF Project Number 40088	The proposed project includes construction of two detention ponds with a total storage of 91.5 acre-feet adjacent to the existing drainage ditch, land acquisition, installation of intake and outfall reinforced concrete piping, check valves for flow control between the ponds and ditch, and headwall concrete flow structure. The total surface area of the two detention ponds will be 10 acres. The ponds will be sized to hold excess water during storm events when the drainage system is overburdened, allowing storm water from other zones to cross the weir structure and preventing flooding in other areas. The detention ponds will provide relief not only to the nearby area, but to the entire system as stormwater makes its way from Hidalgo County to Willacy County and to its final destination in the Gulf of Mexico.	Willacy				Ongoing	\$ 438,473	Yes	FIF, local	2023	Unknown
15000081	15	Lower Rio Grande	Sunflower Drain_2018 Bond Project 36	Purchase additional right of way. Construct a proposed drain ditch. Upgrade existing connection to South Main Drain. Upgrade from existing culvert crossing underneath State Highway 107.	Hidalgo				Ongoing	\$1,132,727	Yes	Local Funds	2023	Unknown
15000082	15	Lower Rio Grande	Western Rd & 9 Mile Line_2018 Bond Project 37	Regrade of roadside ditch and installation of driveway culverts along North Abram Rd. to alleviate flooding issues.	Hidalgo				Ongoing	\$ 80,434	Yes	Local Funds	2023	Unknown
15000083	15	Lower Rio Grande	Capital Acquisition of In-House Machinery and Equipment_2018 Bond Project 38	Purchase of in-house machinery and equipment to be used for maintenance and operations	Hidalgo				Ongoing	\$4,000,000	No	Local Funds	2022	Unknown
15000084	15	Lower Rio Grande	GLO River Basin Flood Study	Hydrologic and Hydraulic Study of Cameron, Hidalgo, Starr and Willacy County for the identification of regional flood mitigation projects and grant opportunities.	Cameron, Hidalgo, Starr, Willacy				Ongoing	#####	No	CDBG-DR	2024	Unknown
15000085	15	Lower Rio Grande	Brownsville Stormwater Improvements, CWSRF Project 73848	The City proposes to implement several mitigation and preservation type projects. The project components include the construction of a Park/Detention pond system (Waterplein Park); reconstruction of a stormwater pump station; several culvert improvements, including addition of Supervisory Control and Data Acquisition (SCADA) system; and improvements to several flood control infrastructure in the West Brownsville area. These projects are intended to mitigate flooding and drainage risks in the area.	Cameron				Ongoing	#####	Yes	CWSRF	2023	Unknown

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Table 3:

Existing Condition Flood Risk Summary Table (by County)

TABLE 3: EXISTING CONDITION FLOOD RISK SUMMARY TABLE

Table 3: Existing Condition Flood Risk Summary Table (by County)

RFPG No.	RFPG Name	County	Area in Flood Planning Region (sqmi)	1% Annual Chance Flood Risk										0.2% Annual Chance Flood Risk										Possible Flood Prone Areas							
				Area in Floodplain (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population (daytime)	Population (nighttime)	Population	Roadway Stream Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)	Area in Floodplain (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population	Roadway Stream Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)	Area (sqmi)	Number of Structures in Flood Prone Area	Residential Structures in Flood Prone Area	Population	Roadway Stream Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)		
1	15	Lower Rio Grande	Brooks	685.7	230.112	151	13	14	14	14	0	29.8	111.5	0	237.7	169	17	18	0	31.3	115.1	0									
2	15	Lower Rio Grande	Cameron	1,020.30	466.7	23,700	19,444	68,704	68,704	68,704	2	806.8	149.4	40	773.2	82,075	68,171	272,340	2	1,719.90	303.1	182									
3	15	Lower Rio Grande	Dimmit	172.2	41.9	3	0	0	0	0	0	0.79	1	0	46.2	6	0	0	0	1.12	1.18	0									
4	15	Lower Rio Grande	Edwards	138.8	30.5	27	3	0	0	0	6	18.1	0.05	0	33.2	43	5	0	6	19.3	0.054	0									
5	15	Lower Rio Grande	Hidalgo	1586.4	636.3	68,003	54,857	154,648	154,648	154,648	16	1,803.90	360.8	62	880.1	164,942	133,801	535,247	16	3,012.90	505.3	274									
6	15	Lower Rio Grande	Jim Hogg	870.5	138.6	42	2	6	6	6	1	16.2	70.9	1	172.2	99	4	31	1	20.9	93.6	1									
7	15	Lower Rio Grande	Kenedy	1478.3	576.1	46	3	28	28	28	0	38.2	208.8	0	820.6	116	10	58	0	52.6	308.5	1									
8	15	Lower Rio Grande	Kinney	751.3	232.5	420	164	354	354	354	44	57.1	11.7	2	265.9	621	282	689	44	68.4	14.7	3									
9	15	Lower Rio Grande	Maverick	768.5	223.9	1,832	1,372	3,074	3,074	3,074	5	91.2	20.1	1	252.1	3,361	2,564	10,511	6	121.1	23.1	9									
10	15	Lower Rio Grande	Starr	1232.4	327.6	4,521	3,068	9,732	9,732	9,732	0	200.4	93.4	6	365.4	6,696	4,402	19,248	0	247.5	105.4	20									
11	15	Lower Rio Grande	Val Verde	349.7	91.7	1,387	1,022	2,575	2,575	2,575	24	68.1	1.03	2	102.8	2,807	2,056	10,668	25	85.4	1.22	14									
12	15	Lower Rio Grande	Webb	1654.6	460.1	9,165	7,833	28,358	28,358	28,358	26	356.8	13.8	13	512.3	19,770	17,055	99,649	26	458.9	16	44									
13	15	Lower Rio Grande	Willacy	664.3	308.7	4,616	3,455	8,644	8,644	8,644	0	269.9	147	10	478.8	7,020	5,049	15,304	0	491.1	259.6	15									
14	15	Lower Rio Grande	Zapata	1057.4	314.2	369	214	525	525	525	0	36.2	40.5	1	346.5	641	360	819	0	46.1	46.6	3									
Total				12,430.30	4,078.80	114,282	91,450	276,662	276,662	276,662	124	3,793.50	1,229.98	138	5,287	288,366	233,776	965,787	126	6,376.52	1,793.45	566	0	0	0	0	0	0	0	0	

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Table 5:

Future Condition Flood Risk Summary Table, by county

TABLE 5: FUTURE CONDITION FLOOD RISK SUMMARY TABLE, BY COUNTY

Table 5: Future Condition Flood Risk Summary Table, by county

RFGP No.	RFGP Name	County	Area in Flood Planning Region (sqmi)	1% Annual Chance Flood Risk								0.2% Annual Chance Flood Risk								Possible Flood Prone Areas							
				Area in Floodplain (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population	Roadway Stream Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)	Area in Floodplain (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population	Roadway Stream Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)	Area (sqmi)	Number of Structures in Flood Prone Area	Residential Structures in Flood Prone Area	Population	Roadway Stream Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)
1	15	Lower Rio Grande	Brooks	685.7	237.7	135	11	11	0	31.3	115.1	0	314.6	297	34	72	0	62.1	156.6	0							
2	15	Lower Rio Grande	Cameron	1,020.30	773.2	74,080	61,908	206,704	2	1719.9	303.1	115	897.3	112,880	94,679	383,522	2	2,408.20	361.2	267							
3	15	Lower Rio Grande	Dimmit	172.2	46.2	3	0	0	0	1.12	1.18	0	59.6	13	0	0	0	3.8	1.7	0							
4	15	Lower Rio Grande	Edwards	138.8	33.2	30	3	0	6	19.3	0.054	0	50.9	56	7	0	6	23.1	0.069	0							
5	15	Lower Rio Grande	Hidalgo	1586.4	880.1	145,451	119,116	377,416	16	3,012.90	505.3	176	1146.9	220,599	177,853	760,243	17	4,265.40	654.1	445							
6	15	Lower Rio Grande	Jim Hogg	870.5	172.2	61	3	14	1	20.9	93.6	1	235.8	170	4	53	1	44.7	131.6	1							
7	15	Lower Rio Grande	Kenedy	1478.3	820.6	89	10	50	0	52.6	308.5	0	957.5	203	13	82	0	87.9	385.3	1							
8	15	Lower Rio Grande	Kinney	751.3	265.9	524	220	426	44	68.4	14.7	2	326.7	828	403	1446	46	116	18.8	4							
9	15	Lower Rio Grande	Maverick	768.5	252.1	2,248	1,676	3,581	6	121.1	23.1	1	318	4,859	3,815	17,439	6	194.6	28.5	14							
10	15	Lower Rio Grande	Starr	1232.4	365.4	5,571	3,737	13,414	0	247.5	105.4	13	458	8,648	5,593	25,054	0	365.4	129.5	25							
11	15	Lower Rio Grande	Val Verde	349.7	102.8	1,751	1,308	3,365	25	85.4	1.22	4	136.2	4,479	3,316	16,231	25	143.4	1.52	16							
12	15	Lower Rio Grande	Webb	1654.6	512.3	12,455	10,708	37,232	26	458.9	1.6	13	669.9	32,456	28,617	141,863	26	660.2	21.9	65							
13	15	Lower Rio Grande	Willacy	664.3	478.8	6,692	4,875	13,570	0	491.1	259.6	14	542.9	8,051	5,588	17,309	0	695.8	302.2	21							
14	15	Lower Rio Grande	Zapata	1057.4	346.5	412	237	535	0	46.1	46.6	2	442.1	1130	641	2387	0	92.7	65.4	6							
Total				12,430.30	5,287.00	249,502	203,812	656,318	126	6,376.52	1,793.45	341	6,556	394,669	320,563	1,365,701	129	9,163.30	2,258.39	865	0	0	0	0	0	0	0

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Table 6:

Existing Floodplain Management Practices

TABLE 6: EXISTING FLOODPLAIN MANAGEMENT PRACTICES

Table 6: Existing Floodplain Management Practices

Entity ¹	Floodplain management regulations (Yes/No/Unknown) ¹	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No) ¹	NFIP Participant (Yes/ No) ¹	Higher Standards Adopted (Yes/ No) ²	Floodplain Management Practices (Strong/Moderate/Low/None) ²	Level of enforcement of practices (High/ Moderate/ Low/ None) ²	Existing Stormwater or Drainage Fee (Yes/No) ²	Web Link to entity regulations ²
Brooks	Unknown	Yes*	Yes					
Cameron	Yes	Yes	Yes	Yes	Moderate	High		https://www.cameroncounty.us/wp-content/uploads/2020/05/Cameron-County-Floodplain-Regulations.pdf
Dimmit	Unknown	Yes*	Yes					
Edwards	Yes	No	No	No	None	None	No	Subdivision Regulations.pdf (edwards.tx.us)
Hidalgo	Unknown	Yes*	Yes					
Jim Hogg	No	No	Yes	No	Low	None	No	N/A
Kenedy	Unknown	Yes*	Yes					
Kinney	Unknown	Yes*	Yes					
Maverick	Yes	Yes	Yes	No	Low	Moderate		emailed document - no link
Starr	Unknown	Yes*	Yes					
Val Verde	Yes	Yes	Yes	No	low			Flood-Damage-Prevention-Plan (texas.gov)
Webb	Yes	Yes	Yes	Yes	Moderate			
Willacy	Yes	Yes	Yes	No	Low	Moderate		Flood Plain Ordinance.pdf (willacy.tx.us)
Zapata	Yes	Yes	Yes	No	Low	Low		ordinance_flooddamageprevention.pdf (zapata.tx.us)
Alamo	Yes	Yes	Yes	No	Low	Moderate		https://codelibrary.amlegal.com/codes/alamo/latest/alamo_tx/0-0-0-21086
Alton	Yes	Yes	Yes	Yes	Strong			https://alton-tx.gov/wp-content/uploads/2021/01/UDC-2020.pdf
Bayview	Yes	Yes	Yes	Yes	Moderate	Low		Flood-Damage-Prevention-Ordinance-1.pdf (bayviewtexas.us)
Brackettville	Unknown	Yes*	Yes					
Brownsville	Yes	Yes	Yes	No	Low			Article I. - IN GENERAL Code of Ordinances Brownsville, TX Municode Library
Combes	Unknown	Yes*	Yes		Moderate	Moderate		comprehensive_plan.pdf (townofcombes.com)
Del Rio	Yes	Yes	Yes	No	Low	Moderate		Chapter 11 - FLOOD DAMAGE PREVENTION Code of Ordinances Del Rio, TX Municode Library
Donna	Unknown	Yes*	Yes					CHAPTER 1 FLOOD DAMAGE PREVENTION (amlegal.com)
Eagle Pass	Yes	Yes	Yes	Yes	Moderate	Moderate	No	Chapter 13½ - FLOODPLAIN MANAGEMENT STANDARDS Code of Ordinances Eagle Pass, TX Municode Library
Edcouch	Unknown	Yes*	Yes					
Edinburg	Yes	Yes	Yes	Yes	Strong	Low		Welcome to Edinburg, TX (cityofedinburg.com)
El Cenizo	Unknown	Yes*	Yes					
Elsa	Yes	Yes*	Yes		Low	Low		
Escobares	Unknown	No	No					
Granjeno	Unknown	Yes*	Yes					
Harlingen	Yes	Yes	Yes	No	Low	High		Chapter 105 - FLOOD DAMAGE PREVENTION Code of Ordinances Harlingen, TX Municode Library
City of Hidalgo	Unknown	Yes*	Yes					
Indian Lake	Yes	Yes	Yes	No	Low			
La Feria	Yes	Yes	Yes	No	Low	Low		Code of Ordinances – City of La Feria, TX (article 3.06)
La Grulla	Unknown	Yes*	Yes					
La Joya	Unknown	Yes*	Yes					
La Villa	Unknown	Yes*	Yes					
Laguna Vista	Yes	Yes	Yes	No	Low	Moderate	No	
Laredo	Yes	Yes	Yes	Yes	Moderate			ord_2017-O-061_stormwater_management.pdf (cityoflaredo.com)
Los Fresnos	Yes	Yes	Yes	No	Low	Moderate		Chapter 16 - ENVIRONMENT Code of Ordinances Los Fresnos, TX Municode Library
Los Indios	Yes	Yes	Yes	No	Low	Low		
Lyford	Yes	Yes	Yes	No	Low	Moderate		9577cc_a3f8d09d1ed741e89fb05de3e53d3c7c.pdf (filesusr.com)
McAllen	Yes	Yes	Yes	Yes	High	Moderate	Yes	Chapter 118 - FLOODS Code of Ordinances McAllen, TX Municode Library
Mercedes	Unknown	Yes*	Yes					
Mission	Yes	Yes	Yes	No	Low			Chapter 38 - FLOOD DAMAGE PREVENTION Code of Ordinances Mission, TX Municode Library
Palm Valley	Yes	Yes	Yes	No	Low			FLOOD HAZARD REDUCTION (amlegal.com)
Palmhurst	No	No	Yes	No	None			
Palmview	Yes	Yes	Yes	No	Low	Low		https://codelibrary.amlegal.com/codes/palmview/latest/overview
Penitas	Yes	Yes	No	No	None	None	No	42204.pdf (evogov.s3.amazonaws.com)
Pharr	Yes	Yes	Yes	No	Low	Moderate		ARTICLE II. - FLOOD DAMAGE PREVENTION Code of Ordinances Pharr, TX Municode Library
Port Isabel	Yes	Yes	Yes	Yes	Moderate			PROVISIONS FOR FLOOD HAZARD REDUCTION (amlegal.com)

TABLE 6: EXISTING FLOODPLAIN MANAGEMENT PRACTICES

Entity ¹	Floodplain management regulations (Yes/ No/ Unknown) ¹	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No) ¹	NFIP Participant (Yes/ No) ¹	Higher Standards Adopted (Yes/ No) ²	Floodplain Management Practices (Strong/Moderate/Low/None) ²	Level of enforcement of practices (High/ Moderate/ Low/ None) ²	Existing Stormwater or Drainage Fee (Yes/No) ²	Web Link to entity regulations ²
Primera	Unknown	Yes*	Yes	No	Low	Low	No	
Progreso	Unknown	Yes*	Yes					
Progreso Lakes	Unknown	Yes*	Yes					
Rancho Viejo	Yes	Yes	Yes	No	Low			Chapter 30 - FLOOD PREVENTION Code of Ordinances Rancho Viejo, TX Municode Library
Rangerville	Unknown	Yes*	Yes					
Raymondville	Unknown	N/A	Yes					
Rio Bravo	Unknown	Yes	Yes					
Rio Grande City	Unknown	Yes*	Yes					
Rio Hondo	Yes	Yes	Yes	Yes	Moderate	Moderate		emailed documents - no link
Roma	Yes	Yes	Yes	No	Low	High	Yes	Chapter 34 - FLOOD DAMAGE PREVENTION Code of Ordinances Roma, TX Municode Library
San Benito	Yes	Yes	Yes	No	Low			Franklin Legal Publishing, powered by CTS z2 (Chapter3.14)
San Juan	Yes	Yes	Yes	No	Low	Moderate		Franklin Legal Publishing, powered by CTS z2
San Perlita	Unknown	Yes*	Yes					
Santa Rosa	Yes	Yes	Yes	Yes	Moderate	High		
South Padre Island	Yes	Yes	Yes	No	Low	High		Ordinance No. 20-01 Code of Ordinances South Padre Island, TX Municode Library
Spofford	Unknown	No	No					
Sullivan City	Unknown	Yes*	Yes					
Weslaco	Yes	Yes	Yes	Yes	Low	High		Chapter 54. FLOOD HAZARD PREVENTION, Part II. CODE OF ORDINANCES, Code of Ordinances, Weslaco (elaws.us)
_ Bayview Irrigation District No. 11	Unknown	N/A	N/A					
_ Cameron County Drainage District No. 1	Yes	N/A	N/A		Low		Yes	Microsoft Word - MASTER DRAINAGE PLAN.doc (squarespace.com)
_ Cameron County Drainage District No. 3	Unknown	No	N/A		Moderate	Moderate		
_ Cameron County Drainage District No. 4	Unknown	N/A	N/A					
_ Cameron County Drainage District No. 5	Unknown	No	N/A		Low			
_ Cameron County Drainage District No. 6	Unknown	N/A	N/A					
_ Donna Irrigation District Hildago County	Unknown	N/A	N/A					
_ Fort Clark Municipal Utility District (MUD)	Unknown	N/A	N/A	no			no	
_ Hidalgo County Drainage District No. 1	Unknown	N/A	N/A					
_ La Feria Irrigation District Cameron County No. 3	Unknown	N/A	N/A					
_ Valley Municipal Utility District (MUD) No. 2	Yes	N/A	N/A		Moderate	Low		http://www.v mud2.org/swmp.html
_ Webb County Drainage District No. 1	Unknown	N/A	N/A					
_ Willacy County Drainage District No. 1	Unknown	N/A	N/A					
_ Willacy County Drainage District No. 2	Unknown	N/A	N/A					
Harlingen Irrigation District	No	N/A	N/A	No	None	None	No	
Hidalgo and Cameron Counties Irrigation District No. 9	Unknown	N/A	N/A					
International Boundary and Water Commission	N/A	N/A	N/A					https://www.ibwc.gov/Files/1944Treaty.pdf
Starr County Drainage District	Unknown	N/A	N/A					

¹ At a minimum, the RFPs must list all counties, cities and communities in the region with flood related authority in the region and identify whether entity they have any established floodplain management practices.

² RFPs are not required to provide information for these fields and may choose to leave these fields blank.

Appendix B

Table 11:

Flood Mitigation and Floodplain Management Goals

TABLE 11: REGIONAL FLOOD PLAN FLOOD MITIGATION AND FLOODPLAIN MANAGEMENT GOALS

Table 11: Flood Mitigation and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	Measurement Method	Overarching Goal	Associated Goal IDs
15000001	15	Lower Rio Grande	Increase the number of nature-based flood risk reduction projects by 20% - 30%	Short Term (10 year)	2023	entire RFPG	Existing flood risk remains after implementation of nature-based projects, unless the project specifically addresses existing flood risk.	% of nature-based flood risk reduction projects relative to projects that are not nature based	Flood Infrastructure Projects	15000002
15000002	15	Lower Rio Grande	Increase the number of nature-based flood risk reduction projects by greater than 50%	Long Term (30 year)	2053	entire RFPG	Existing flood risk remains after implementation of nature-based projects, unless the project specifically addresses existing flood risk.	% of nature-based flood risk reduction projects relative to projects that are not nature based	Flood Infrastructure Projects	15000001
15000003	15	Lower Rio Grande	Reduce the number of newly constructed vulnerable critical facilities within the existing and future 1% annual chance floodplain event by over 70%	Short Term (10 year)	2023	entire RFPG	Existing flood risk remains for existing critical facilities and 30% of future critical facilities.	% of critical facilities in the region within the existing or future 1% annual chance floodplain	Flood Infrastructure Pro	15000004
15000004	15	Lower Rio Grande	Reduce the number of newly constructed vulnerable critical facilities within the existing and future 1% annual chance floodplain event by 100%	Long Term (30 year)	2053	entire RFPG	Existing flood risk remains for existing critical facilities.	% of critical facilities in the region within the existing or future 1% annual chance floodplain	Flood Infrastructure Pro	15000003
15000005	15	Lower Rio Grande	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event by performing a study to establish a baseline	Short Term (10 year)	2023	entire RFPG	Existing flood risk is unaffected by study to determine baseline.	% of residential areas with safe access routes during and after flooding events	Flood Infrastructure Pro	15000006
15000006	15	Lower Rio Grande	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event by 2 times the baseline %	Long Term (30 year)	2053	entire RFPG	Existing flood risk will remain for residential areas that do not have a project to mitigate flooding that impedes access routes.	% of residential areas with safe access routes during and after flooding events	Flood Infrastructure Pro	15000005
15000007	15	Lower Rio Grande	Increase the number of entities that provide regional detention that could be used for water reuse applications or as part of their floodplain management program by over 30%	Short Term (10 year)	2023	entire RFPG	Existing flood risk will remain for project areas where the proposed regional detention facility does not address existing flood risk.	% of entities that provide regional detention as part of their floodplain management program	Flood Infrastructure Projects	15000008
15000008	15	Lower Rio Grande	Increase the number of entities that provide regional detention that could be used for water reuse applications or as part of their floodplain management program by over 60%	Long Term (30 year)	2053	entire RFPG	Existing flood risk will remain for project areas where the proposed regional detention facility does not address existing flood risk.	% of entities that provide regional detention as part of their floodplain management program	Flood Infrastructure Projects	15000007
15000009	15	Lower Rio Grande	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to 40% to 50% of the most populated areas of the region.	Short Term (10 year)	2023	entire RFPG	Risk of inundation will remain unaltered, however, the risk of loss of life is expected to be reduced for half the most populated areas due to an advanced warning and emergency response program.	% of Region 15 population covered by a warning and emergency response program	Flood Warning and Read	15000010
15000010	15	Lower Rio Grande	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to over 70% of the most populated areas of the region.	Long Term (30 year)	2053	entire RFPG	Risk of inundation will remain unaltered, however, the risk of loss of life is expected to be reduced for 70% of the most populated areas due to an advanced warning and emergency response program.	% of Region 15 population covered by a warning and emergency response program	Flood Warning and Read	15000009
15000011	15	Lower Rio Grande	Increase the number of flood gauges (rainfall/stream) in the region by 30% to 40%.	Short Term (10 year)	2023	entire RFPG	Flood risk will remain unaltered by the placement of the gauges. It is the intent to use data from gauges to implement flood mitigation projects, validate models and advance warning programs.	% of watershed and streams with active gauges	Flood Warning and Read	15000012
15000012	15	Lower Rio Grande	Increase the number of flood gauges (rainfall/stream) in the region by over 70%.	Long Term (30 year)	2053	entire RFPG	Flood risk will remain unaltered by the placement of the gauges. It is the intent to use data from gauges to implement flood mitigation projects, validate models and advance warning programs.	% of watershed and streams with active gauges	Flood Warning and Read	15000011
15000013	15	Lower Rio Grande	Increase the number of entities that use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations to over 40%	Short Term (10 year)	2023	entire RFPG	Risk of inundation will remain unaltered, however, the risk of loss of life is expected to be reduced in 40% of the entities due to these measures.	% of entities using real-time media services and/or Reverse 911 to warn of flood risks, evacuation routes and shelter locations	Flood Warning and Readiness	15000014
15000014	15	Lower Rio Grande	Increase the number of entities that use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations to over 70%	Long Term (30 year)	2053	entire RFPG	Risk of inundation will remain unaltered, however, the risk of loss of life is expected to be reduced in 70% of the entities due to these measures.	% of entities using real-time media services and/or Reverse 911 to warn of flood risks, evacuation routes and shelter locations	Flood Warning and Readiness	15000013
15000015	15	Lower Rio Grande	Increase the number of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings by over 30%	Short Term (10 year)	2023	entire RFPG	Risk of inundation will remain unaltered, however, the risk of loss of life is expected to be reduced in 30% of the entities due to these measures.	% of entities integrating NWS and TXWSC flood warning system information into their own systems	Flood Warning and Read	15000016
15000016	15	Lower Rio Grande	Increase the number of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings by over 50%	Long Term (30 year)	2053	entire RFPG	Risk of inundation will remain unaltered, however, the risk of loss of life is expected to be reduced in 50% of the entities due to these measures.	% of entities integrating NWS and TXWSC flood warning system information into their own systems	Flood Warning and Read	15000015
15000017	15	Lower Rio Grande	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs in the region by 30% to 40%	Short Term (10 year)	2023	entire RFPG	Flood risk will remain, however, the population of the entities with the updated FIRM maps will have access to maps that better represent their flood risk and for use when making decisions.	% of entities that have FIRM maps that are less than 20 years old	Flood Studies and Analy	15000018

TABLE 11: REGIONAL FLOOD PLAN FLOOD MITIGATION AND FLOODPLAIN MANAGEMENT GOALS

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	Measurement Method	Overarching Goal	Associated Goal IDs
15000018	15	Lower Rio Grande	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs in the region by over 70%	Long Term (30 year)	2053	entire RFPG	Flood risk will remain, however, the population of the entities with the updated FIRM maps will have access to maps that better represent their flood risk for use when making decisions.	% of entities that have FIRM maps that are less than 20 years old	Flood Studies and Analy	15000017
15000019	15	Lower Rio Grande	Increase the coverage of available flood hazard data in the region, including at ports of entry, airports, and seaports, by completing studies with identified construction projects to address flooding hazards, in areas identified as having gaps in flood mapping data by 30% to 40%	Short Term (10 year)	2023	entire RFPG	Flood risk will remain, however, the population of the entities with the updated floodplain mapping will have access to maps that represent their flood risk and for use when making decisions.	% of entities that have completed studies (less than 10 years old) identifying flood hazards as described	Flood Studies and Analysis	15000020
15000020	15	Lower Rio Grande	Increase the coverage of available flood hazard data in the region, including at ports of entry, airports, and seaports, by completing studies with identified construction projects to address flooding hazards, in areas identified as having gaps in flood mapping data by over 70%	Long Term (30 year)	2053	entire RFPG	Flood risk will remain, however, the population of the entities with the updated floodplain mapping will have access to maps that represent their flood risk and for use when making decisions.	% of entities that have completed studies (less than 10 years old) identifying flood hazards as described	Flood Studies and Analysis	15000019
15000021	15	Lower Rio Grande	Have 40% to 50% of entities develop and maintain an operational stormwater asset management plan	Short Term (10 year)	2023	entire RFPG	Flood risk will remain at existing conditions levels unless strategic efforts identified in the plan are implemented to mitigate additional flood risk.	% of entities that utilize a stormwater asset management plan	Flood Studies and Analysis	15000022
15000022	15	Lower Rio Grande	Have over 70% of entities develop and maintain an operational stormwater asset management plan	Long Term (30 year)	2053	entire RFPG	Flood risk will remain at existing conditions levels unless strategic efforts identified in the plan are implemented to mitigate additional flood risk.	% of entities that utilize a stormwater asset management plan	Flood Studies and Analysis	15000021
15000023	15	Lower Rio Grande	Increase the number of Region 15 communities participating in the National Flood Insurance Program to 100%	Short Term (10 year)	2023	entire RFPG	Existing flood risk will remain.	% of entities in Region 15 enrolled in NFIP	Guidance	15000024
15000024	15	Lower Rio Grande	Maintain the number of Region 15 communities participating in the National Flood Insurance Program at 100%	Long Term (30 year)	2053	entire RFPG	Existing flood risk will remain.	% of entities in Region 15 enrolled in NFIP	Guidance	15000023
15000025	15	Lower Rio Grande	Increase the number of entities that adopt higher than NFIP-minimum standards by 40% to 50%	Short Term (10 year)	2023	entire RFPG	Existing flood risk will remain through region and future flood risk will be mitigated to a greater degree in half the region's entities	% of entities that adopt higher than NFIP minimum standards	Guidance	15000026
15000026	15	Lower Rio Grande	Increase the number of entities that adopt higher than NFIP-minimum standards by 60% to 70%	Long Term (30 year)	2053	entire RFPG	Existing flood risk will remain through region and future flood risk will be mitigated to a greater degree in half the region's entities	% of entities that adopt higher than NFIP minimum standards	Guidance	15000025
15000027	15	Lower Rio Grande	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain by 30% to 40%	Short Term (10 year)	2023	entire RFPG	Existing flood risk will remain in region and future flood risk will be mitigated to a greater degree in 40% of region's entities.	% of entities in Region 15 actively participating in the Community Rating System	Guidance	15000028
15000028	15	Lower Rio Grande	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain by over 50% of entities	Long Term (30 year)	2053	entire RFPG	Existing flood risk will remain in region and future flood risk will be mitigated to a greater degree in over 50% of region's entities.	% of entities in Region 15 actively participating in the Community Rating System	Guidance	15000027
15000029	15	Lower Rio Grande	Increase the number of entities that have multi-year drainage CIP list by over 40%	Short Term (10 year)	2023	entire RFPG	Existing flood risk will remain in region until identified project in CIP are constructed that address existing flood risk.	% of entities in Region 15 with 20-yr drainage CIPs	Guidance	15000030
15000030	15	Lower Rio Grande	Increase the number of entities that have multi-year drainage CIP list by over 70%	Long Term (30 year)	2053	entire RFPG	Existing flood risk will remain in region until identified projects in CIP are constructed that address existing flood risk.	% of entities in Region 15 with 20-yr drainage CIPs	Guidance	15000029
15000031	15	Lower Rio Grande	Reduce the number of structures that have been subject to repeated flooding events through property buyouts by over \$10 million	Short Term (10 year)	2023	entire RFPG	Existing flood risk will remain for those structures subject to repeated flooding that were not purchased.	Estimated \$ value of benefits incurred through property buyout programs annually	Property Acquisition, St	15000032
15000032	15	Lower Rio Grande	Reduce the number of structures that have been subject to repeated flooding events through property buyouts by \$20 million to \$50 million	Long Term (30 year)	2053	entire RFPG	Existing flood risk will remain for those structures subject to repeated flooding that were not purchased.	Estimated \$ value of benefits incurred through property buyout programs annually	Property Acquisition, St	15000031
15000033	15	Lower Rio Grande	Increase the acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use by over 300,000 acres	Short Term (10 year)	2023	entire RFPG	Existing flood risk will remain unchanged unless a project is constructed in these protected open spaces to mitigate existing flood risk.	Number of acres of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Property Acquisition, Structure Elevation, and Floodproofing	15000034
15000034	15	Lower Rio Grande	Increase the acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use by 600,000 to 800,000 acres	Long Term (30 year)	2053	entire RFPG	Existing flood risk will remain unchanged unless a project is constructed in these protected open spaces to mitigate existing flood risk.	Number of acres of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Property Acquisition, Structure Elevation, and Floodproofing	15000033

TABLE 11: REGIONAL FLOOD PLAN FLOOD MITIGATION AND FLOODPLAIN MANAGEMENT GOALS

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	Measurement Method	Overarching Goal	Associated Goal IDs
15000035	15	Lower Rio Grande	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure by over 30%	Short Term (10 year)	2023	entire RFPG	Existing and future flood risk will remain unchanged unless a project is constructed in these publicly owned spaces to mitigate future flood risk in that location.	% increase in county-owned land in region	Property Acquisition, St	15000036
15000036	15	Lower Rio Grande	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure by over 50%	Long Term (30 year)	2053	entire RFPG	Existing and future flood risk will remain unchanged unless a project is constructed in these publicly owned spaces to mitigate future flood risk in that location.	% increase in county-owned land in region	Property Acquisition, St	15000035
15000037	15	Lower Rio Grande	Increase the number of outreach and education activities, specifically targeting municipal floodplain managers throughout Region 15, hosted by Region 15 RFPG and available on the website by 20% to 30%.	Short Term (10 year)	2023	entire RFPG	Existing and future flood risk will remain unchanged unless a municipal floodplain manager leverages the information and partnerships they gained from the program to implement mitigation efforts.	% increase in the number of outreach activities	Education and Outreach	15000038
15000038	15	Lower Rio Grande	Increase the number of outreach and education activities, specifically targeting municipal floodplain managers throughout Region 15, hosted by Region 15 RFPG and available on the website by over 60%.	Long Term (30 year)	2053	entire RFPG	Existing and future flood risk will remain unchanged unless a municipal floodplain manager leverages the information and partnerships they gained from the program to implement mitigation efforts.	% increase in the number of outreach activities	Education and Outreach	15000037
15000039	15	Lower Rio Grande	Increase the number of entities and public stakeholders participating in the regional flood planning process by 30% to 40%	Short Term (10 year)	2023	entire RFPG	Existing and future flood risk will remain unchanged until entities implement mitigation efforts outlined in the Regional Flood Plan.	% of entities and stakeholders annually performing outreach activities.	Education and Outreach	15000040
15000040	15	Lower Rio Grande	Increase the number of entities and public stakeholders participating in the regional flood planning process by over 70%	Long Term (30 year)	2053	entire RFPG	Existing and future flood risk will remain unchanged until entities implement mitigation efforts outlined in the Regional Flood Plan.	% of entities and stakeholders annually performing outreach activities.	Education and Outreach	15000039
15000041	15	Lower Rio Grande	Increase the proficiency of floodplain managers by increasing the number of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association by over 25%.	Short Term (10 year)	2023	entire RFPG	Existing and future flood risk will remain unchanged unless a floodplain manager leverages the information and partnerships they gained from the program to implement mitigation efforts.	% of Region 15 floodplain managers who have CFM certifications	Education and Outreach	15000042
15000042	15	Lower Rio Grande	Increase the proficiency of floodplain managers by increasing the number of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association by over 70%.	Long Term (30 year)	2053	entire RFPG	Existing and future flood risk will remain unchanged unless a floodplain manager leverages the information and partnerships they gained from the program to implement mitigation efforts.	% of Region 15 floodplain managers who have CFM certifications	Education and Outreach	15000041

Appendix B

Table 12:

Potential Flood Management Evaluations Identified by RFPG

TABLE 12: POTENTIAL FLOOD MANAGEMENT EVALUATIONS IDENTIFIED BY RFPG

Table 12: Potential Flood Management Evaluations Identified by RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)
151000001	15	Lower Rio Grande	Brooks County	Develop Flood risk maps for the county of Brooks	15000019, 15000020	Brooks	12110207			Flood Risk Modeling/ Mapping	685.7
151000002	15	Lower Rio Grande	Bayview Action #6	Upgrade three roadway bridges and one footbridge including structural improvements and stabilization to reduce damages caused by flooding and high winds	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000003	15	Lower Rio Grande	City of Brownsville Action #1	Upgrade and increase culverts at specific locations in City in order to adequately convey storm water. Selected locations including Boca Chica Blvd. area, International Blvd., North Main drainage ditch	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000004	15	Lower Rio Grande	City of Brownsville Action #16	Construct a weir to prevent flood risk from the overflow of canals located on the North side of Brownsville	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000005	15	Lower Rio Grande	City of Brownsville Action #17	Construct and/or expand culverts on rural roads and main stream outfalls. Locations include: 1) Central Ave to Martinelle; 2) Robindale to Old Place ; 3) Dana 802 to High Emerson ; 4) Pablo Kisel from Morrison to Alton Gloor	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000006	15	Lower Rio Grande	City of Brownsville Action #24	Improve drainage and replace or upgrade gutters at City Plaza buildings	1500007, 1500008	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1
151000007	15	Lower Rio Grande	Indian Lake Action #1	Elevate and harden S Resaca Shore Drive bridge to reduce risk of damages and maintaining critical access route	1500005 , 1500006	Cameron	12110208	121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.21
151000008	15	Lower Rio Grande	Indian Lake Action #12	Upgrade/Elevate Henderson Road bridge over Resaca to remove from potential floodway, reduce the risk of damages, and maintain critical access route	1500005 , 1500006	Cameron	12110208	121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.16
151000009	15	Lower Rio Grande	Indian Lake Action #17	Upgrade shoulders and provide turnouts along Henderson Road to support evacuation route	1500005 , 1500006	Cameron	12110208	121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.78
151000010	15	Lower Rio Grande	Indian Lake Action #18	Harden critical facilities, to include the Town Hall/Police Station, to reduce or eliminate wind, hail, and flood damage and ensure continuity of emergency services	1500009 , 1500010	Cameron	12110208	121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.5
151000011	15	Lower Rio Grande	Laguna Vista Action #1	Drainage improvements Basin "B": Install upgraded drainage system for 80 acre residential area. Current system is inadequate to carry storm water runoff	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000012	15	Lower Rio Grande	Laguna Vista Action #10	Drainage Improvements: Harden and reinforce head wall along the Laguna Madre bay off Beach Boulevard	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.41
151000013	15	Lower Rio Grande	Laguna Vista Action #11	Drainage Improvements: Upgrade 48" drainage pipe located at 1004 Beach Blvd to increase capacity and reduce risk of flood damages	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01
151000014	15	Lower Rio Grande	Laguna Vista Action #12	Drainage Improvements: Relocate and upgrade existing 36" drainage pipe located at 1026 Beach Blvd to increase capacity and reduce risk of flood damages	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01
151000015	15	Lower Rio Grande	Laguna Vista Action #19	Harden Town Hall with wind, hail, and flood mitigation measures to reduce damages and ensure continuity of services	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000016	15	Lower Rio Grande	Laguna Vista Action #2	Drainage improvements Basin "C": Install upgraded drainage system for 60 acre residential area. Current system is inadequate to carry storm water runoff.	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000017	15	Lower Rio Grande	Laguna Vista Action #3	Drainage improvements Basin "D": Install upgraded drainage system west side of State Highway 510 for 80 acre residential area. Current system is inadequate to carry storm water runoff.	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	1.87
151000018	15	Lower Rio Grande	Laguna Vista Action #4	Drainage improvements Basin "E": Install upgraded drainage system off Saunders Street and State Highway 510 that drains acreage south of Fernandez Street and north of Morris Street	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000019	15	Lower Rio Grande	Laguna Vista Action #5	Drainage improvements Basin "F": Install drainage system at the most southwestern part of the Town limits, bounded by State Highway 100 and State Highway 510.	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.18
151000020	15	Lower Rio Grande	Laguna Vista Action #6	Drainage improvements SH 100: Regrade the existing drainage ditch that parallels State Highway 100 to increase capacity and reduce risk of flooding	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	13.5
151000021	15	Lower Rio Grande	Laguna Vista Action #7	Drainage improvements: Upgrade the drainage system on the intersection of Broadway and Palo Blanco to increase capacity and reduce risk of flooding	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01
151000022	15	Lower Rio Grande	Laguna Vista Action #8	Drainage Improvements: Upgrade the drainage system on Holley Beach to increase capacity and reduce risk of flooding	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	3.99
151000023	15	Lower Rio Grande	Laguna Vista Action #9	Drainage Improvements: Upgrade and harden drainage structure on Town-owned marina to increase capacity and reduce risk of damages	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.51

TABLE 12: POTENTIAL FLOOD MANAGEMENT EVALUATIONS IDENTIFIED BY RFPG

Table 12: Potential Flood Management Evaluations Identified by RFPG (continued)

FME ID	FME Name	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
	Brooks County	Brooks County	Yes	151000001	Brooks County	\$ 250,000.00			151	54	0	0	0	636.1	0	unknown	unknown
Urban/local, Riv	Bayview	Bayview	Yes	151000002	Bayview Action #	\$ 370,000.00	HMGP; USDA; Other Grants		29	84	0	0	0	4.6	0	unknown	unknown
Urban/local, Riv	Brownsville	Brownsville	Yes	151000003	City of Brownsvil	\$ 396,000.00	HMGP									unknown	unknown
Urban/local, Riv	Brownsville	Brownsville	Yes	151000004	City of Brownsvil	\$ 39,000.00	General Fund									unknown	unknown
Urban/local, Riv	Brownsville	Brownsville	Yes	151000005	City of Brownsvil	\$ 99,000.00	HMGP									unknown	unknown
Urban/Local, Riv	Brownsville	Brownsville	Yes	151000006	City of Brownsvil	\$ 20,000.00	Capital Improvement Funds		21	198	0	0	0	2.3	0	unknown	unknown
Urban/local, Riv	Indian Lakes	Indian Lakes	Yes	151000007	Indian Lake Actio	\$ 92,000.00	General Fund; HMGP		38	184	0	0	0	6.9	0	unknown	unknown
Urban/local, Riv	Indian Lakes	Indian Lakes	Yes	151000008	Indian Lake Actio	\$ 185,000.00	General Fund; HMGP		0	0	0	0	0	0.1	0	unknown	unknown
Urban/local, Riv	Indian Lakes	Indian Lakes	Yes	151000009	Indian Lake Actio	\$ 20,000.00	General Fund; HMGP		5	18	0	0	0	0.3	0	unknown	unknown
Urban/local, Riv	Indian Lakes	Indian Lakes	Yes	151000010	Indian Lake Actio	\$ 28,000.00	General Fund; HMGP		9	25	0	0	0	0.2	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000011	Laguna Vista Acti	\$ 924,000.00	HMGP; Local Funds; Other Grants; Drainage Fee									unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000012	Laguna Vista Acti	\$ 924,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		25	83	0	0	0	0.5	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000013	Laguna Vista Acti	\$ 92,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		2	7	0	0	0	0.4	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000014	Laguna Vista Acti	\$ 92,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		1	2	0	0	0	0.4	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000015	Laguna Vista Acti	\$ 18,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		0	0	0	0	0	0.0	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000016	Laguna Vista Acti	\$ 924,000.00	HMGP; Local Funds; Other Grants; Drainage Fee									unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000017	Laguna Vista Acti	\$ 924,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		21	65	0	0	0	0.5	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000018	Laguna Vista Acti	\$ 924,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		0	0	0	0	0	0.0	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000019	Laguna Vista Acti	\$ 924,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		0	0	0	0	0	0.0	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000020	Laguna Vista Acti	\$ 370,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		0	0	0	0	0	10.8	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000021	Laguna Vista Acti	\$ 370,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		0	0	0	0	0	0.0	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000022	Laguna Vista Acti	\$ 370,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		21	86	0	0	0	2.4	0	unknown	unknown
Urban/local, Riv	Laguna Vista	Laguna Vista	Yes	151000023	Laguna Vista Acti	\$ 554,000.00	HMGP; Local Funds; Other Grants; Drainage Fee		18	76	0	0	0	0.5	0	unknown	unknown

TABLE 12: POTENTIAL FLOOD MANAGEMENT EVALUATIONS IDENTIFIED BY RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)
151000024	15	Lower Rio Grande	Los Fresno's Action #13	Upgrade culverts and install drainage improvements at various locations to increase capacity and reduce risk of flood damages. Purchase trailer mounted water trash pump to reduce or eliminate flooding. Drainage Improvement locations: Drainage Ditch South of Highway 100 causes flooding on East Fifth Street, East Sixth Street, East Seventh Street, East Eighth Street, East Ninth Street and East Tenth Street. South Nogal Street Causes Flooding on West First Street, West Second Street, West Third Street, Valle Alto Street & Bougainvillea Street, Jacqueline Street & North Canal Street Drain Pipe Collapse, Olmo Street from West Eighth Street to West Tenth Street, Holly Lane Drain Under Canal, Pasto Drive at California Road Drain Under Canal, and Resaca Escondido Drain Pipe Collapse. The following Resaca Crossings are Too Low: Henderson Road East Side, Henderson Road West Side, and Whipple Road West Side.	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	1.4
151000025	15	Lower Rio Grande	Los Fresnos Action #14	Elevate or acquire and demolish flood-prone structures	1500031, 1500032	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000026	15	Lower Rio Grande	Los Fresnos Action #31	Deepen drainage area in Resaca Escondido and Falcon Lake to increase storm water retention capacity	1500007 , 1500008	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000027	15	Lower Rio Grande	Port Isabel Action #19	Elevate and widen coastal roads as well as evacuation routes to reduce risk of flood damages and maintain emergency access	1500005 , 1500006	Cameron	12110208	121102081000, 121102081000		Flood Mitigation Alternatives Analysis/ Feasibility Study	2.72
151000028	15	Lower Rio Grande	Port Isabel Action #22	Build breakwater or similar shoreline protection for harbor	1500001 , 1500002	Cameron	12110208	121102081000, 121102081000		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.47
151000029	15	Lower Rio Grande	Primera Action #2	Construct a large retention/detention pond in the northwest part of town to hold water during heavy rain events	1500007, 1500008, 1500005 , 1500006	Cameron	12110208	121102080700		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1
151000030	15	Lower Rio Grande	South Padre Island #6	Upgrade undersized culverts throughout the Island to increase capacity and reduce flood risk	1500005 , 1500006	Cameron	12110208	1.21102E+11		Flood Mitigation Alternatives Analysis/ Feasibility Study	4.62
151000031	15	Lower Rio Grande	Dimmit County	Develop Flood risk maps for the county of Dimmit and develop CIP	15000019, 15000020	Dimmit	12110207			Flood Risk Modeling/ Mapping	172.15
151000032	15	Lower Rio Grande	Edwards County	Develop Flood risk maps for the county of Edwards and develop CIP	15000019, 15000020	Edwards	12110207			Flood Risk Modeling/ Mapping	138.8
151000033	15	Lower Rio Grande	FM 491 and Mile 3	Local Drainage Improvements- County Road 1771	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.81
151000034	15	Lower Rio Grande	Pump Station H & Sump	Pump Station H & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.31
151000035	15	Lower Rio Grande	Pump Station I & Sump	Pump Station I & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	3.73
151000036	15	Lower Rio Grande	Pump Station J & Sump	Pump Station J & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	6.23
151000037	15	Lower Rio Grande	Pump Station K	Pump Station K	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1
151000038	15	Lower Rio Grande	Pump Station L	Pump Station L	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.3
151000039	15	Lower Rio Grande	Lott Rd & Soderquist	Local Drainage Improvements- North of Lott Road and East of Soderquist Rd.	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.27
151000040	15	Lower Rio Grande	Mile 2 E & Expy 83	Local Drainage Improvements- North of Interstate 2 and West of Mile 2 1/2	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.43
151000041	15	Lower Rio Grande	TX 88 & W Sugar Cane Dr Improvements	Channel Improvements- Ditch 17B2A1, Ditch 17B2A1 Detention West, Local Drainage Improvements (North of W Sugar Cane West of Ditch17B2A1), Ditch 17B2A1 Detention East, and Local Drainage Improvements (North of W Sugar Cane East of Ditch17B2A1)	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	3.1

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FME ID	FME Name	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
Urban/local, Riv	Los Fresnos	Los Fresnos	Yes	151000024	Los Fresno's Actio	\$ 1,848,000.00	HMGP; General Funds, Drainage Fee	146	146	680	2	0	0	9.8	0	unknown	unknown
Urban/local, Riv	Los Fresnos	Los Fresnos	Yes	151000025	Los Fresnos Actio	\$ 185,000.00	HMGP; General Funds, CDBG									unknown	unknown
Urban/local, Riv	Los Fresnos	Los Fresnos	Yes	151000026	Los Fresnos Actio	\$ 185,000.00	HMGP; General Funds									unknown	unknown
Urban/local, Riv	Port Isabel	Port Isabel	Yes	151000027	Port Isabel Actio	\$ 554,000.00	HMGP; General Funds	1398	1398	4349	1	0	0	38.7	0	unknown	unknown
Urban/local, Riv	Port Isabel	Port Isabel	Yes	151000028	Port Isabel Actio	\$ 1,109,000.00	HMGP; General Funds	167	167	702	0	0	0	17.2	0	unknown	unknown
Urban/local, Riv	Primera	Primera	Yes	151000029	Primera Action #	\$ 92,000.00	Local Funds; HMGP; Cameron County Drainage District	2	2	4	0	0	0	0.0	0	unknown	unknown
Urban/local, Riv	South Padre Island	South Padre Island	Yes	151000030	South Padre Islar	\$ 1,848,000.00	HMGP; CDBG	894	894	3555	3	0	0	38.7	0	unknown	unknown
	Dimmit	Dimmit	Yes	151000031	Dimmit County	\$ 250,000.00		3	3	1	0	0	0	86.8	0	unknown	unknown
	Edwards	Edwards	Yes	151000032	Edwards County	\$ 250,000.00		27	27	9	0	6	0	45.0	0	unknown	unknown
	Hidalgo County Drainage District #1	County Drainage District #1	Yes	151000033	FM 491 and Mile	\$ 60,000.00		2	2	0	0	0	0	2.2	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000034	Pump Station H &	\$ 218,000.00		0	0	0	0	0	0	0.0	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000035	Pump Station I &	\$ 389,000.00		0	0	0	0	0	0	0.0	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000036	Pump Station J &	\$ 311,000.00		0	0	0	0	0	0	1.5	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000037	Pump Station K	\$ 165,000.00		0	0	0	0	0	0	1.7	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000038	Pump Station L	\$ 165,000.00		0	0	0	0	0	0	0.0	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000039	Lott Rd & Soderq	\$ 191,000.00		55	55	245	0	0	0	3.3	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000040	Mile 2 E & Expy 8	\$ 215,000.00		2	2	9	0	0	0	3.7	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000041	TX 88 & W Sugar	\$ 376,000.00		405	405	2476	0	0	0	14.4	0	unknown	unknown

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FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)
151000042	15	Lower Rio Grande	Mile 11 N & Mile 6 W Improvements	Channel Improvements- Ditch 17B2A1A, Channel Improvements- Ditch 7T,7T1, Local Drainage Improvements- West of Ditch17B2A1A, and Ditch 17B2A1 Detention West	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.74
151000043	15	Lower Rio Grande	Clark Rd & Mile 1 E Improvements	Channel Improvements- Ditch 19,19B,19H,23; Local Drainage Improvements-Los Laureles; Local Detention-Los Laureles; Local Drainage Improvements-Clark road and Mile 1 Road; and Bypass Channel and Sump Area for Pump Station	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	12.3
151000044	15	Lower Rio Grande	International & E Mile 5 N Improvements	Channel Improvements just upstream of Ditch 35B; Culvert Improvements; Detention North of Llano Grande Lake Just West of 3 Mile Rd; 2- 130,000 GPM Pumps; Channel Improvements Ditch 34, 34B, 34BExt; Regional Detention; Bypass channel from Ditch 34; and Culvert Improvements-Ditch 34 Passing International Blvd.	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.71
151000045	15	Lower Rio Grande	S Alamo and Rancho Blanco	Local Drainage Improvements-Storm Drain and Detention North of Rancho Blanco and east of S. Alamo Road	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.03
151000046	15	Lower Rio Grande	FM 1423 and Main Grove	Local Drainage Improvements- Main Street, North Street	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.12
151000047	15	Lower Rio Grande	FM 1423 and Nolana	Local Drainage Improvements--Storm Drain and Detention South of Earling Road West of Val Verde Street	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.38
151000048	15	Lower Rio Grande	N Tower	Local Drainage Improvements-Storm Drain North of Minnesota Road	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.73
151000049	15	Lower Rio Grande	Dillon and Roosevelt	Local Drainage Improvements-Just North of E Roosevelt Rd	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.68
151000050	15	Lower Rio Grande	Canton and Dillon	Local Drainage Improvements-Along Canton Road and adjacent neighborhoods	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.1
151000051	15	Lower Rio Grande	FM 1925 and Mile 4	Local Drainage Improvements-Along Bernal Court	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.16
151000052	15	Lower Rio Grande	Pump Station A & Sump A	Pump Station A & Sump A	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1
151000053	15	Lower Rio Grande	Pump Station B & Sump B	Pump Station B & Sump B	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000054	15	Lower Rio Grande	Pumps & Sumps	Remove gate and improve embankment	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000055	15	Lower Rio Grande	Pump Station D	Pump Station D	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	4.67
151000056	15	Lower Rio Grande	Pump Station E & Sump	Pump Station E & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	3.45
151000057	15	Lower Rio Grande	Pump Station F & Sump	Pump Station F & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	12.4

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FME ID	FME Name	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000042	Mile 11 N & Mile	\$ 570,000.00			112	622	0	0	0	11.8	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000043	Clark Rd & Mile 1	\$ 1,527,000.00			368	1817	0	0	0	19.5	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000044	International & E	\$ 1,094,000.00			257	609	0	0	0	17.5	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000045	S Alamo and Ran	\$ 526,000.00			0	0	0	0	0	0.0	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000046	FM 1423 and Ma	\$ 107,000.00			157	683	0	0	0	1.4	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000047	FM 1423 and Nol	\$ 321,000.00			113	553	0	0	0	9.5	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000048	N Tower	\$ 201,000.00			268	1092	0	0	0	20.1	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000049	Dillon and Roose	\$ 217,000.00			86	271	0	0	0	8.0	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000050	Canton and Dillor	\$ 454,000.00			5	13	0	0	0	8.3	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000051	FM 1925 and Mil	\$ 144,000.00			5	12	0	0	0	0.0	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000052	Pump Station A &	\$ 213,000.00			0	0	0	0	0	0.0	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000053	Pump Station B &	\$ 245,000.00			391	1500	0	0	0	13.3	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000054	Pumps & Sumps	\$ 9,000.00										unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000055	Pump Station D	\$ 165,000.00			0	0	0	0	0	0.0	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000056	Pump Station E &	\$ 125,000.00			0	0	0	0	0	0.0	0	unknown	unknown
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000057	Pump Station F &	\$ 480,000.00			0	0	0	0	0	2.2	0	unknown	unknown

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FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)
151000058	15	Lower Rio Grande	Pump Station G & Sump	Pump Station G & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	2.71
151000059	15	Lower Rio Grande	City of Sullivan City	Develop Flood risk maps for the city of Sullivan City and develop CIP	15000019, 15000020	Hidalgo	12110207			Flood Risk Modeling/ Mapping	3.6
151000060	15	Lower Rio Grande	Alton MDP - West Mile 5 Road and Louisiana	Alternative 2 is designed to remove structures from the 10-year floodplain. Approximately 35 acre-feet of volume is proposed to be excavated. construction consists of 1,940 LF of 36-inch diameter pipe sloped at 0.2% along Louisiana, Kentucky, and Trosper Road out falling directly into the retention pond, 3 headwalls and approximately 9 inlets. Additional inlets and smaller pipe may be needed to catch low lying areas that pond between the houses or regrading with swales to take runoff to the street.	15000007, 15000008, 15000005, 15000006	Hidalgo	12110207, 12110208	121102080200, 121102080300		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1
151000061	15	Lower Rio Grande	Alton MDP - FM 676 South Glasscock Road	Widening of FM 676 with a proposed storm drain system containing 54" reinforced concrete pipe.	15000005, 15000006	Hidalgo	12110207, 12110209	121102080200, 121102080300		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.13
151000062	15	Lower Rio Grande	Alton MDP - North Inspiration Road and West	Alternative 2, is designed to remove structures from the 25-year floodplain and more frequent storms. This alternative consists of upsizing the storm drain under West St Jude Avenue. The trunk line will consist of 1,900 LF of a single 7' X 5' reinforced concrete box sloped at 0.5% from the area just west of the neighborhood on W. St. Jude Avenue to the West Main Drain Channel, downstream (north) of the existing 10' X 7' box culvert.	15000005, 15000006	Hidalgo	12110207, 12110210	121102080200, 121102080300		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.16
151000063	15	Lower Rio Grande	Alton MDP - West Mile 5 and South Glasscock	Alternative 3 is simply the buyout and removal of 23 properties on the north side of Buchanan from the 10-year floodplain. Once structures are removed, the vacant land can be excavated and used as a park/regional retention pond.	15000031, 15000032	Hidalgo	12110207, 12110213	121102080200, 121102080300		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.23
151000064	15	Lower Rio Grande	Weslaco Stormwater Improvement Plan - N	Installation of 3,220 LF of new storm drain system consisting of two – 8' x 4' RCBs along Mile 3 ½.	15000005, 15000006	Hidalgo	12110207, 12110228	121102080100, 121102080300		Preliminary Engineering	0.22
151000065	15	Lower Rio Grande	Weslaco Stormwater Improvement Plan - N	Construction of an 8 acre detention pond, with approximately 4,000 LF of channel widening along the back of the neighborhoods and between the Justice Raul A. Gonzalez Elementary School and Joe Calvillo Jr Career & Technology Education Complex; replacement of existing undersized channel culvert with two – 8' x 5' reinforced concrete boxes (RCBs), and adding two – 8' x 5' RCBs to connect the existing drainage ditches to the drain channel system on the east.	15000007, 15000008	Hidalgo	12110207, 12110230	121102080100, 121102080300		Preliminary Engineering	0.4
151000066	15	Lower Rio Grande	Weslaco Stormwater Improvement Plan - S	Replacement of 48 – inch culverts at two roadway crossings with 6' x 4' RCBs.	15000005, 15000006	Hidalgo	12110207, 12110231	121102080100, 121102080300		Preliminary Engineering	0.39
151000067	15	Lower Rio Grande	Weslaco Stormwater Improvement Plan - T	Construction of two detention ponds, 10 acres near Texas Boulevard and 18th Street and 3 acres south of Dawson Street, a berm, approximately 5,400 LF of channel widening and extension, and installation of an 8' x 4' RCB storm drain system near Border Ave. to Bridge Ave.	15000007, 15000008, 15000005, 15000006	Hidalgo	12110207, 12110232	121102080100, 121102080300		Preliminary Engineering	1.34
151000068	15	Lower Rio Grande	Weslaco Stormwater Improvement Plan - V	The project is located just west of Border Avenue, between US 83 and Zelma Street. Construction of three detention ponds, 18 acres east of Vaughn Road and Midway Road, 26 acres near West 6th Street and Milano Road and 60 acres at Harlon Block Sports Complex, approximately 17,000 LF of channel widening connecting the ponds, and installation of approximately 4500 LF of large (8' x 4', 8' x 5', 8' x 6') RCB storm drain system to improve conveyance along the channels to the ponds.	15000007, 15000008, 15000005, 15000006	Hidalgo	12110207, 12110233	121102080100, 121102080300		Preliminary Engineering	2
151000069	15	Lower Rio Grande	Weslaco Stormwater Improvement Plan - V	Construction of two detention ponds, 11 acres near Clecker-Heald Elementary School and 8 acres behind the commercial properties north of Interstate 2, approximately 4,500 LF of channel widening connecting the two ponds, addition of a new 42-inch reinforced concrete pipe (RCP) culvert east of Border Avenue, and installation of approximately 5,600 LF of an 8' x 4' RCB storm drain system along West Paisano Lane and East Ballard Street.	15000007, 15000008, 15000005, 15000006	Hidalgo	12110207, 12110234	121102080100, 121102080300		Preliminary Engineering	1.58
151000070	15	Lower Rio Grande	Enhance Drainage Systems In Hidalgo	Add Additional Storm Sewer Line From 5Th Street/Azalea To Texano East To Eight Street. Install 24" Cement Pipe To Help Drainage	1500000, 1500000	Hidalgo	12110207, 12110248	121102080100, 121102080300, 130900020311		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.03
151000071	15	Lower Rio Grande	Precinct 4 MDP - Risk Area A at Mile 8.5 Rd	Approximately 1 mile of proposed channel improvements. Proposed culverts. Proposed Detention Ponds with pond north of Mile 8.5 Rd. to collect runoff from the west and has an approximate footprint of 12 acres and storage capacity of 60 acre-ft and will outfall south towards the pond south of Mile 8.5 Rd.	15000007, 15000008, 15000005, 15000006	Hidalgo	12110207, 12110279	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.79
151000072	15	Lower Rio Grande	Precinct 4 MDP - Risk Area B at Mile 6 & N	Regional Detention Facilities with a pond footprint of 25 acres along the Existing HCDD1 West Main Drain. Storm Drain and Local Drainage Improvements. Channel maintenance.	15000007, 15000008, 15000005, 15000006	Hidalgo	12110207, 12110280	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.15
151000073	15	Lower Rio Grande	Precinct 4 MDP - Risk Area C at FM 2812 & N	Channel Improvements (Widening & Regrading) to Existing J-01 Drain with approximately 1.5 miles of proposed improvements. Channel Improvements (Channel Maintenance & Flowline Regrading) to Existing DA-1 Ext. Drain with approximately 0.4 miles of proposed improvements. Proposed detention pond will have an approximate footprint of 9 acres and storage capacity of 90 acre-ft. Grate inlets & proposed storm drain channel maintenance & debris removal.	15000007, 15000008, 15000005, 15000006	Hidalgo	12110207, 12110281	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	3.23
151000074	15	Lower Rio Grande	Precinct 4 MDP - Risk Area D at S. McColl & N	Channel Improvements (Widening & Regrading) to Existing McAllen Lateral & North Main Drain with approximately 2.25 miles of proposed improvements from S McColl St. to State Highway 107. Crossings at W Canton Rd., W Freddy Gonzalez Dr., and W Sprague St. were all evaluated up to the 25-year design storm criteria for upsizing evaluation.	15000005, 15000006	Hidalgo	12110207, 12110282	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	1.4

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FME ID	FME Name	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
	Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	151000058	Pump Station G & H	\$ 272,000.00		0	0	0	0	0	0	0.0	0	unknown	unknown
	City of Sullivan City	City of Sullivan City	Yes	151000059	City of Sullivan City	\$ 250,000.00		153	854	0	0	0	0	9.6	0	unknown	unknown
Urban/local, Riv	City of Alton	City of Alton	Yes	151000060	Alton MDP - West	\$ 323,000.00	FIF, local	574	2686	0	0	0	0	26.1	0	2018	unknown
Urban/local, Riv	City of Alton	City of Alton	Yes	151000061	Alton MDP - FM 6	\$ 59,000.00	FIF, local									2018	unknown
Urban/local, Riv	City of Alton	City of Alton	Yes	151000062	Alton MDP - North	\$ 423,000.00	FIF, local	102	414	0	0	0	0	2.0	0	2018	unknown
Urban/local, Riv	City of Alton	City of Alton	Yes	151000063	Alton MDP - West	\$ 250,000.00	FIF, local	98	562	0	0	0	0	5.5	0	2018	unknown
Urban/local, Riv	City of Weslaco	City of Weslaco	Yes	151000064	Weslaco Stormwater	\$ 819,000.00	FIF, local	155	2951	1	0	0	0	25.1	0	2019	unknown
Urban/local, Riv	City of Weslaco	City of Weslaco	Yes	151000065	Weslaco Stormwater	\$ 666,000.00	FIF, local	72	686	0	0	0	0	4.3	0	2019	unknown
Urban/local, Riv	City of Weslaco	City of Weslaco	Yes	151000066	Weslaco Stormwater	\$ 14,000.00	FIF, local	183	310	0	0	0	0	4.5	0	2019	unknown
Urban/local, Riv	City of Weslaco	City of Weslaco	Yes	151000067	Weslaco Stormwater	\$ 6,598,000.00	FIF, local	667	2399	0	0	0	0	32.5	0	2019	unknown
Urban/local, Riv	City of Weslaco	City of Weslaco	Yes	151000068	Weslaco Stormwater	\$ 5,596,000.00	FIF, local	638	3620	1	0	0	0	27.8	0	2019	unknown
Urban/local, Riv	City of Weslaco	City of Weslaco	Yes	151000069	Weslaco Stormwater	\$ 1,665,000.00	FIF, local	423	2931	0	0	0	0	30.2	0	2019	unknown
Urban/Local, Riv	Hidalgo	Hidalgo	Yes	151000070	Enhance Drainage	\$ 215,000.00	USDA									unknown	unknown
Urban/local, Riv	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	151000071	Precinct 4 MDP -	\$ 2,985,000.00	FIF, local	124	499	0	0	0	0	5.7	0	2021	unknown
Urban/local, Riv	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	151000072	Precinct 4 MDP -	\$ 4,076,000.00	FIF, local	34	270	0	0	0	0	5.5	0	2021	unknown
Urban/local, Riv	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	151000073	Precinct 4 MDP -	\$ 1,183,000.00	FIF, local	273	1167	0	3	0	0	44.4	0	2021	unknown
Urban/local, Riv	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	151000074	Precinct 4 MDP -	\$ 954,000.00	FIF, local	735	6686	1	0	0	0	46.7	0	2021	unknown

TABLE 12: POTENTIAL FLOOD MANAGEMENT EVALUATIONS IDENTIFIED BY RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)
151000075	15	Lower Rio Grande	Precinct 4 MDP - Risk Area E at Hwy 107 &	Channel Improvements with approximately 0.3 miles of proposed improvements. Proposed detention pond north of Tex-Mex Rd. and east of S 87th St. has an approximate footprint of 4.25 acres and capacity of 20 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets spaced along every 500' of storm drain with a 4'x2' RCB along S 85th St.	1500007, 1500008, 1500005, 1500006	Hidalgo	12110207, 12110283	121102080400, 121102070100, 121102080200, 121102080200		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1
151000076	15	Lower Rio Grande	Precinct 4 MDP - Risk Area F at Texas Rd. &	Channel Improvements with approximately 0.6 miles of proposed improvements. Grate Inlets and Proposed Storm Drain with grate inlets in sag spaced along every 500' tying into a 42" RCP along Cesar Chavez Road starting at just south of Texas Rd to the Curry Drain. Culvert Improvements with connections between the proposed open channels and existing HCDD1 Edinburg Stub will require the installation of 4'x3' RCBs.	1500005, 1500006	Hidalgo	12110207, 12110284	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.56
151000077	15	Lower Rio Grande	Precinct 4 MDP - Risk Area G at Hoehn Rd.	Channel Improvements with approximately 0.75 miles of proposed improvements. Proposed Pond north of County Road 3424 and west of County Road 3421 has an approximate footprint of 5 acres and capacity of 35 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets will be located at the southwest corner of Eubanks and County Road 3424 with a connection to a 42" DIA RCP storm drain. Proposed culverts.	1500005, 1500006	Hidalgo	12110207, 12110285	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.79
151000078	15	Lower Rio Grande	Precinct 4 MDP - Risk Area I at Sharp Rd. &	Inlets and proposed storm drain with Approximately 1,100' of 4'x4' RCB storm drain with curb inlets to be installed along Hendrix Dr. and Gaston Cr. with approximately 1,200' of 6'x4' RCB storm with grate and sag inlets along Uresti Rd. with connection to the HCDD1 J-02 Drain. Proposed installation of grate and sag inlets along Mile 19 Rd. (Phase Two) and proposed installation of grate and sag inlets along Sharp Rd. (Phase Two). Proposed Culverts Improvements (Phase One). Proposed detention pond with 9 acre footprint. Channel maintenance.	1500005, 1500006	Hidalgo	12110207, 12110286	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.73
151000079	15	Lower Rio Grande	Precinct 4 MDP - Risk Area J at SH107 & FM	Channel Improvements (Widening & Regrading) to Existing HCDD1 "Y" drain with approximately 0.75 miles of proposed channel improvements beginning at Fresno Dr. and ending at E Curry Rd. Proposed Drainage Grate Inlets approximately 3,800' of storm drain to provide local drainage improvements north and west of existing HCDD1 "Y" Drain in two separate systems. Proposed culverts improvements. Proposed detention pond with a 2.7 acre footprint.	1500005, 1500006	Hidalgo	12110207, 12110287	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.15
151000080	15	Lower Rio Grande	Mercedes Project Area 111	Provide channel and culvert improvements for the outlined ditches. (Mercedes Ditch 19, 19A, Anaquitas Drain)		Hidalgo				Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000081	15	Lower Rio Grande	East Mercedes Project Area 112a	Provide channel and culvert improvements for the Joutlined ditches. (Mercedes Ditch 23 North of IH 2)		Hidalgo				Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000082	15	Lower Rio Grande	Jim Hogg County	Develop Flood risk maps for the county of Jim Hogg and develop CIP	15000019, 15000020	Jim Hogg	12110207			Flood Risk Modeling/ Mapping	870.56
151000083	15	Lower Rio Grande	Kenedy County	Develop Flood risk maps for the county of Kenedy and develop CIP	15000019, 15000020	Kenedy	12110207			Flood Risk Modeling/ Mapping	1478.25
151000084	15	Lower Rio Grande	Fort Clark MUD	Develop Flood risk maps for Fort Clark MUD and develop CIP	15000019, 15000020	Kinney	12110207			Flood Risk Modeling/ Mapping	4.21
151000085	15	Lower Rio Grande	Kinney County	Develop Flood risk maps for the county of Kinney and develop CIP	15000019, 15000020	Kinney	12110207			Flood Risk Modeling/ Mapping	751.29
151000086	15	Lower Rio Grande	Risk Area 11 Rancho Escondido	Project includes constructing 10'x2' U-shaped channel from Flores Drive to just south of Microtel Inn Suites, replacing existing culvert under Mazza Drive with 1-8'x4' RCB, and installing curb inlet at cul-de-sac on Nancy Drive.	1500005, 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.03
151000087	15	Lower Rio Grande	Risk Area 12 Fox Borough Drive	Project includes bypassing flow from inlet at Point Loma Drive and North Point Drive to the detention pond with 1 - 8'x4' RCB and Installing additional curb inlets on N. Point Drive and Silver Oak Circle.	1500005, 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.05
151000088	15	Lower Rio Grande	Risk Area 13 Celle De Los Santos neighborh	Project includes upgrading existing culvert crossing irrigation canal from 2-6'x4' RCB to 4-6'x4' RCB.	1500005, 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.03
151000089	15	Lower Rio Grande	Risk Area 15 Trib 3 Detention at Main Street	Project includes constructing 10 acre detention pond (29 ac-ft volume) along East Channel north of Highway 277 and installing flap-gates at flume outfalls on Omar Drive and Jana Drive, to prevent more frequent stormwater from backing up into the neighborhood on the west side of the channel.	1500005, 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.05
151000090	15	Lower Rio Grande	Risk Area 2 Treasure Hills	Project includes constructing a 4' deep trapezoidal concrete channel with 8' bottom width and 2:1 side slopes, from detention pond outfall to existing culverts.	1500005, 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.06
151000091	15	Lower Rio Grande	Risk Area 3 Arrow Point Boulevard	Project includes constructing small retaining wall at downstream of flume outfall to force flow towards Stone Way and constructing a 2' wide and 6" deep concrete flume from existing flume outfall to Stone Way.	1500005, 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.02
151000092	15	Lower Rio Grande	Risk Area 4 Bibb & Misty Willow storm dra	Project includes installing 6'x4' RCB along Misty Willow Drive from N Bibb Avenue to existing channel between N Bibb Avenue and Timber Valley and installing curb inlets on N Bibb Avenue and Misty Willow Drive.	1500005, 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.02
151000093	15	Lower Rio Grande	Risk Area 5 Debona Drive	Project includes constructing a 5' deep trapezoidal channel approximately 30 feet wide with 3:1 side slopes and a 5' concrete pilot channel, replacing Juarez Street culvert with 8'x4' box culvert, and realigning existing channel to provide additional distance from homes.	1500005, 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.02
151000094	15	Lower Rio Grande	Risk Area 6 Trib 2 bypass & detention at Ea	Project includes bypassing flow from Golfcrest Drive to the detention pond with 1-6'x4', RCB Modifying outfall structure from 2-5'x3' RCB to 1-5'x3' RCB, and Lowering existing baseball field by 3 ft to provide an additional 30 ac-ft of storage.	1500007, 1500008	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.1

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FME ID	FME Name	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
Urban/local, Riv	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	151000075	Precinct 4 MDP -	\$ 747,000.00	FIF, local		58	280	0	0	0	4.6	0	2021	unknown
Urban/local, Riv	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	151000076	Precinct 4 MDP -	\$ 1,188,000.00	FIF, local		33	155	0	0	0	3.3	0	2021	unknown
Urban/local, Riv	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	151000077	Precinct 4 MDP -	\$ 909,000.00	FIF, local		141	592	0	0	0	10.2	0	2021	unknown
Urban/local, Riv	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	151000078	Precinct 4 MDP -	\$ 899,000.00	FIF, local		67	354	0	2	0	15.4	0	2021	unknown
Urban/local, Riv	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	151000079	Precinct 4 MDP -	\$ 541,000.00	FIF, local		19	144	0	0	0	3.8	0	2021	unknown
	Hidalgo County Drainage District No. 1	Hidalgo County Drainage District No. 1	Yes	151000080	Mercedes Project	\$ 1,151,000.00										unknown	unknown
	Hidalgo County Drainage District No. 1	Hidalgo County Drainage District No. 1	Yes	151000081	East Mercedes Pr	\$ 454,000.00										unknown	unknown
	Jim Hogg County	Jim Hogg County	Yes	151000082	Jim Hogg County	\$ 250,000.00			42	24	1	1	0	147.7	0	unknown	unknown
	Kenedy County	Kenedy County	Yes	151000083	Kenedy County	\$ 250,000.00			46	56	0	0	0	318.4	0	unknown	unknown
	Fort Clark MUD	Fort Clark MUD	Yes	151000084	Fort Clark MUD	\$ 250,000.00			88	227	0	0	0	0.0	0	unknown	unknown
	Kinney County	Kinney County	Yes	151000085	Kinney County	\$ 250,000.00			420	803	2	44	0	193.2	0	unknown	unknown
Urban/local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000086	Risk Area 11 Rand	\$ 137,000.00	FIF, local		16	100	0	0	0	0.2	0	2020	unknown
Urban/local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000087	Risk Area 12 Fox	\$ 178,000.00	FIF, local		24	95	0	0	0	0.4	0	2020	unknown
Urban/local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000088	Risk Area 13 Celle	\$ 27,000.00	FIF, local		8	50	0	0	0	0.3	0	2020	unknown
Urban/local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000089	Risk Area 15 Trib	\$ 124,000.00	FIF, local		191	1331	1	0	0	5.7	0	2020	unknown
Urban/local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000090	Risk Area 2 Treas	\$ 90,000.00	FIF, local		26	268	0	0	0	5.1	0	2020	unknown
Urban/local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000091	Risk Area 3 Arrow	\$ 20,000.00	FIF, local		0	0	0	0	0	2.4	0	2020	unknown
Urban/local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000092	Risk Area 4 Bibb	\$ 48,000.00	FIF, local		17	79	0	0	0	0.6	0	2020	unknown
Urban/local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000093	Risk Area 5 Debo	\$ 54,000.00	FIF, local		3	118	0	0	0	1.8	0	2020	unknown
Urban/local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000094	Risk Area 6 Trib 2	\$ 144,000.00	FIF, local		5	18	0	0	0	1.1	0	2020	unknown

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FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)
151000095	15	Lower Rio Grande	Risk Area 8 Tributary 2 channel widening n	Project includes constructing a 3' deep trapezoidal channel with a 76' bottom width with 4:1 side slopes from Graves Elementary School to the confluence of existing channels and constructing a 4' deep trapezoidal channel with a 11' bottom width with 4:1 side slopes from confluence of existing channels to existing culvert at Kelso Drive.	1500005 , 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.04
151000096	15	Lower Rio Grande	Maverick County	Develop Flood risk maps for the county of Maverick and develop CIP	15000019, 15000020	Maverick	12110207			Flood Risk Modeling/ Mapping	768.49
151000097	15	Lower Rio Grande	Starr County	Develop Flood risk maps for the county of Starr and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	1232.38
151000098	15	Lower Rio Grande	Starr County Drainage District	Develop Flood risk maps for the Starr County Drainage District and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	1232.34
151000099	15	Lower Rio Grande	City of La Grulla	Develop Flood risk maps for the city of La Grulla and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	0.94
151000100	15	Lower Rio Grande	City of Roma	Develop Flood risk maps for the city of Roma and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	5.98
151000101	15	Lower Rio Grande	Cit of Escobares	Develop Flood risk maps for the city of Escobares and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	2.73
151000102	15	Lower Rio Grande	City of Rio Grande City	Develop Flood risk maps for the city of Rio Grande City and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	11.38
151000103	15	Lower Rio Grande	Rgc Public Works, Escobares City, And Starr	Improve Roadways, By Widening And Raising, And Create Drainage Culverts Or Bridges. (Morenos Creek And Garceno Creek)(Kelsey Creek, Rio Grande City)	1500005 , 1500006	Starr	12110207, 13090001, 12110207	121102070100, 130900011301, 130900011302, 130900011304, 130900011202, 130900011203, 130900011204, 130900011401, 130900011402, 130800031007, 130800031011, 130900011102, 130900011103, 130900011108, 130900011110, 130900011403, 130900011501, 130900011502, 130900011601, 130900011603, 130900011604, 130900011605, 130900011606, 130900011607, 130900011701, 130900011702, 130900011703, 130900011704, 130900011705, 130900011706, 130900011107, 130900011109, 130900011112		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000104	15	Lower Rio Grande	City of Del Rio	Develop Flood risk maps for the city of Del Rio and develop CIP	15000019, 15000020	Val Verde	12110207			Flood Risk Modeling/ Mapping	20.44
151000105	15	Lower Rio Grande	City of Del Rio Project 1	Calaveras Creek Railroad Avenue Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.02
151000106	15	Lower Rio Grande	City of Del Rio Project 10	San Felipe Creek W. 10th St. Storm sewer	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000107	15	Lower Rio Grande	City of Del Rio Project 11	Cinegas Creek Wildcat Drive Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.16
151000108	15	Lower Rio Grande	City of Del Rio Project 12	Cantu Branch Kings Way - Site 1 Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000109	15	Lower Rio Grande	City of Del Rio Project 13	Cantu Branch Margaret Lane Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01
151000110	15	Lower Rio Grande	City of Del Rio Project 14	Cantu Branch Amistad Blvd Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01

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FME ID	FME Name	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
Urban/Local, Riv	City of Eagle Pass	City of Eagle Pass	Yes	151000095	Risk Area 8 Tribut	\$ 80,000.00	FIF, local		36	289	0	0	0	3.7	0	2020	unknown
	Maverick County	Maverick County	Yes	151000096	Maverick County	\$ 500,000.00			1832	8495	1	6	0	239.1	0	unknown	unknown
	Starr County	Starr County	Yes	151000097	Starr County	\$ 250,000.00			4521	25455	6	0	0	793.7	0	unknown	unknown
	Starr County Drainage District	Starr County Drainage District	Yes	151000098	Starr County Drain	\$ 250,000.00			4521	25455	6	0	0	794.5	0	unknown	unknown
	City of La Grulla	City of La Grulla	Yes	151000099	City of La Grulla	\$ 250,000.00			28	65	0	0	0	3.2	0	unknown	unknown
	City of Roma	City of Roma	Yes	151000100	City of Roma	\$ 250,000.00			1137	6775	1	0	0	24.5	0	unknown	unknown
	Cit of Escobares	Cit of Escobares	Yes	151000101	Cit of Escobares	\$ 250,000.00			255	1994	0	0	0	9.0	0	unknown	unknown
	City of Rio Grande City	City of Rio Grande City	Yes	151000102	City of Rio Grand	\$ 250,000.00			789	6035	3	0	0	62.0	0	unknown	unknown
Urban/Local, Riv	Starr County	Starr County	Yes	151000103	Rgc Public Works	\$ 528,000.00	Tda/Local		4521	25455	6	0	0	793.7	0	unknown	unknown
	City of Del Rio	City of Del Rio	Yes	151000104	City of Del Rio	\$ 250,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000105	City of Del Rio Pre	\$ 33,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000106	City of Del Rio Pre	\$ 187,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000107	City of Del Rio Pre	\$ 30,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000108	City of Del Rio Pre	\$ 49,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000109	City of Del Rio Pre	\$ 20,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000110	City of Del Rio Pre	\$ 37,000.00										unknown	unknown

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FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)
151000111	15	Lower Rio Grande	City of Del Rio Project 15	Cantu Branch Kings Way - Site 2 Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000112	15	Lower Rio Grande	City of Del Rio Project 16	Cantu Branch Kings Way - Site 3 Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000113	15	Lower Rio Grande	City of Del Rio Project 17	Cantu Branch Amistad - Site 2a Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000114	15	Lower Rio Grande	City of Del Rio Project 18	Cantu Branch Amistad - Site 2b Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000115	15	Lower Rio Grande	City of Del Rio Project 19	Cantu Branch Kings Way/Amistad Blvd Storm sewer Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.61
151000116	15	Lower Rio Grande	City of Del Rio Project 2	Calaveras Creek Plaza / W. Viesca St. Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1
151000117	15	Lower Rio Grande	City of Del Rio Project 3	Calaveras Creek Bowie Street Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.18
151000118	15	Lower Rio Grande	City of Del Rio Project 4	Calaveras Creek Vitela St Off Channel Detention	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.02
151000119	15	Lower Rio Grande	City of Del Rio Project 5	San Felipe Creek SFWF A Regional Detention	1500007, 1500008	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000120	15	Lower Rio Grande	City of Del Rio Project 6	San Felipe Creek RSWF B Regional Detention	1500007, 1500008	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000121	15	Lower Rio Grande	City of Del Rio Project 7	San Felipe Creek Johnson Street Bridge Replacement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01
151000122	15	Lower Rio Grande	City of Del Rio Project 8	San Felipe Creek Canal Street Bridge Replacement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01
151000123	15	Lower Rio Grande	City of Del Rio Project 9	San Felipe Creek Academy Street Bridge Replacement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01

TABLE 12: POTENTIAL FLOOD MANAGEMENT EVALUATIONS IDENTIFIED BY RFPG

FME ID	FME Name	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000111	City of Del Rio Pre	\$ 48,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000112	City of Del Rio Pre	\$ 32,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000113	City of Del Rio Pre	\$ 74,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000114	City of Del Rio Pre	\$ 37,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000115	City of Del Rio Pre	\$ 55,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000116	City of Del Rio Pre	\$ 24,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000117	City of Del Rio Pre	\$ 20,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000118	City of Del Rio Pre	\$ 57,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000119	City of Del Rio Pre	\$ 521,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000120	City of Del Rio Pre	\$ 3,055,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000121	City of Del Rio Pre	\$ 68,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000122	City of Del Rio Pre	\$ 164,000.00										unknown	unknown
Urban/Local, Riv	City of Del Rio	City of Del Rio	Yes	151000123	City of Del Rio Pre	\$ 78,000.00										unknown	unknown

TABLE 12: POTENTIAL FLOOD MANAGEMENT EVALUATIONS IDENTIFIED BY RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)
151000124	15	Lower Rio Grande	Val Verde County	Develop Flood risk maps for the county of Val Verde and develop CIP	15000019, 15000020	Val Verde	12110207			Flood Risk Modeling/ Mapping	349.71
151000125	15	Lower Rio Grande	Webb County Drainage District #1	Develop Flood risk maps for the Webb County Drainage District #1 and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	9.12
151000126	15	Lower Rio Grande	City of Laredo	Develop Flood risk maps for the city of Laredo and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	107.79
151000127	15	Lower Rio Grande	City of Rio Bravo	Develop Flood risk maps for the city of Rio Bravo and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	0.66
151000128	15	Lower Rio Grande	City of El Cenizo	Develop Flood risk maps for the city of El Cenizo and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	0.53
151000129	15	Lower Rio Grande	City of Laredo Project 4	Zacate Creek Flood Plain Study to improve the 1980 flood plain map for Zacate Creek	15000019, 15000020	Webb	13080002			Flood Mitigation Alternatives Analysis/ Feasibility Study	
151000130	15	Lower Rio Grande	City of Laredo Project 6	Vidaurri Avenue Roadway Drainage Improvements to prevent future drainage in the area. Street improvements from Scott Street to Jefferson Street.	1500005 , 1500006	Webb	13080002	130800022405 ,130800022610, 130800022611, 130800022612, 130800022801, 130800022802, 130800022804, 130800022805, 130800022809, 130800030208, 130800022806		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.7
151000131	15	Lower Rio Grande	Webb County	Develop Flood risk maps for the county of Webb and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	1654.59
151000132	15	Lower Rio Grande	Zapata County	Develop Flood risk maps for the county of Zapata and develop CIP	15000019, 15000020	Zapata	12110207			Flood Risk Modeling/ Mapping	150.03
151000133	15	Lower Rio Grande	San Ygnacio MUD	Develop Flood risk maps for San Ygnacio MUD and develop CIP	15000019, 15000020	Zapata	12110207			Flood Risk Modeling/ Mapping	

TABLE 12: POTENTIAL FLOOD MANAGEMENT EVALUATIONS IDENTIFIED BY RFPG

FME ID	FME Name	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
	Val Verde County	Val Verde	Yes	151000124	Val Verde County	\$ 500,000.00			1387	5620	2	25	0	121.4	0	unknown	unknown
	Webb County Drainage District #1	Webb	Yes	151000125	Webb County Dra	\$ 1,000,000.00			68	299	0	0	0	10.8	0	unknown	unknown
	City of Laredo	City of Laredo	Yes	151000126	City of Laredo	\$ 1,000,000.00										unknown	unknown
	City of Rio Bravo	City of Rio Bravo	Yes	151000127	City of Rio Bravo	\$ 250,000.00			263	1660	1	0	0	7.0	0	unknown	unknown
	City of El Cenizo	City of El Cenizo	Yes	151000128	City of El Cenizo	\$ 250,000.00			16	83	0	0	0	1.1	0	unknown	unknown
	City of Laredo	City of Laredo	Yes	151000129	City of Laredo Pro	\$ 150,000.00	Local, State									unknown	unknown
Urban/Local, Riv	City of Laredo	City of Laredo	Yes	151000130	City of Laredo Pro	\$ 330,000.00			570	3707	1	0	0	24.3	0	unknown	unknown
	Webb County	Webb County	Yes	151000131	Webb County	\$ 1,000,000.00			9178	63982	13	26	0	1324.1	0	unknown	unknown
	Zapata County	Zapata County	Yes	151000132	Zapata County	\$ 250,000.00			369	1231	1	0	0	196.8	0	unknown	unknown
	San Ygnacio MUD	San Ygnacio MUD	Yes	151000133	San Ygnacio MUD	\$ 250,000.00			118	472	1	0	0	5.3	0	unknown	unknown

Appendix B

Table 13:

Potentially Feasible Flood Mitigation Projects Identified by RFPG

TABLE 13: POTENTIALLY FEASIBLE FLOOD MITIGATION PROJECTS IDENTIFIED BY RFPG

Table 13: Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	County	HUC12s	Watershed Name	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Recurring Noncapital Cost (\$)	Potential Funding Sources and Amount	Flood Risk										
																Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (Miles)	Estimated farm & ranch land at 100-year flood risk (acres)	
153000001	Alton MDP - West Mile 5 Road and Louisiana Street Alternative 2	Alternative 2 is designed to remove structures from the 10-year floodplain. Approximately 35 acre-feet of volume is proposed to be excavated. construction consists of 1,940 LF of 36-inch diameter pipe sloped at 0.2% along Louisiana, Kentucky, and Trosper Road out falling directly into the retention pond, 3 headwalls and approximately 9 inlets. Additional inlets and smaller pipe may be needed to catch low lying areas that pond between the houses or regrading with swales to take runoff to the street.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110208	15000075, 15000146	Infrastructure	3.87	Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 2,152,656.00	\$ -		1.24	0.38	574	0	2686	0	194	0	26.1	0	
153000002	Alton MDP - FM 676 South Glasscock Road Alternative 3	Widening of FM 676 with a proposed storm drain system containing 54" reinforced concrete pipe.		Hidalgo	12110207, 12110209		Infrastructure		Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 387,288.00	\$ -												
153000003	Alton MDP - North Inspiration Road and West St. Jude Avenue Alternative 2	Alternative 2, is designed to remove structures from the 25-year floodplain and more frequent storms. This alternative consists of upsizing the storm drain under West St Jude Avenue. The trunk line will consist of 1,900 LF of a single 7' x 5' reinforced concrete box sloped at 0.5% from the area just west of the neighborhood on W. St. Jude Avenue to the West Main Drain Channel, downstream (north) of the existing 10' x 7' box culvert.	15000005, 15000006	Hidalgo	12110207, 12110210	15000075	Infrastructure	0.16	Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 2,817,936.00	\$ -		0.12	0.01	102	0	414	0	11	0	2.0	0	
153000004	Alton MDP - North Stewart Boulevard Alternative 2	Alternative 2 is designed to remove structures from the 10-year floodplain and more frequent storms. This alternative consists of the construction of 6,600 LF of a single 8' x 4' reinforced concrete box sloped at 0.02% from the Val Verde Acres Subdivision to Josefa Garcia Park.		Hidalgo	12110207, 12110211		Infrastructure		Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 8,338,572.00	\$ -												
153000005	Alton MDP - South Stewart Boulevard Alternative 2A	740 LF 6' x 4' Reinforced Concrete Box Culvert starting just south of Orange Dr. and Stewart Rd. 70 acres of land acquisition for regional retention. 3.1 Acres of land for channel conveyance	15000005, 15000006	Hidalgo	12110207, 12110212	15000075	Infrastructure	0.13	Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 6,296,400.00	\$ -		0.63	0.00	17	0	56	0	1	0	0.1	0	
153000006	Alton MDP - West Mile 5 and South Glasscock Road Alternative 3	Alternative 3 is simply the buyout and removal of 23 properties on the north side of Buchanan from the 10-year floodplain. Once structures are removed, the vacant land can be excavated and used as a park/regional retention pond.	15000005, 15000006	Hidalgo	12110207, 12110213	15000075	Infrastructure	0.23	Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 1,663,200.00	\$ -		0.84	0.14	98	0	562	0	48	0	5.5	0	
153000007	Weslaco Stormwater Improvement Plan -South Texas Boulevard and East 18th Street	Construction of a 5 acre detention pond along Texas Boulevard, with approximately 1,400 LF of channel widening along the back of the neighborhood, the replacement of a 30 - inch culvert crossing the irrigation canal with an 8' x 4' RCB, and replacement of a 24 - inch culvert crossing FM 88 with an 8' x 4' RCB.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110214	15000119	Infrastructure	0.41	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 1,585,584.00	\$ -		0.13	0.03	162	0	739	0	45	0	4.9	0	
153000008	Downtown Pharr Mitigation Project	Construct 5500-linear feet of channel improvements on the Pharr South Drain downstream of Sam Houston Street to just north of Inspiration Street. Install 7280-linear feet of reinforced concrete box culvert improvements toward the Pharr South Drain from Egly and North Hibiscus Street. Install curb inlet capture systems approximately every 500-feet to capture local drainage across subdivisions and repave roadways. Construct two (2) Regional Detention Facilities. Facility 1 at North Camelia Street (Max Depth = 5.5-feet) will require 5.5 acre-feet of excavation and is owned by the City of Pharr. Facility 2 at Audrey Street (max Depth = 9.5-feet) will require 42 acre-feet of excavation and will require acquisition.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110217	15000119, 15000146	Infrastructure, Regional Detention	1.22	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 45,241,092.60	\$ -		0.49	0.27	512	0	2882	1	247	0	27.5	0	
153000009	North Pharr Backwater Relief Project	Construct 3400-linear feet of channel improvements on the ditch running from south to north along North Fir Street and 2800-linear feet of channel improvements on the Pharr-McAllen Lateral Ditch up to North I road. Install culvert improvements, 2-8' x 4' RCB, alongside the ditch running parallel to Fir Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Extend existing culverts at crossings. Repave W. Sioux Road.	15000005, 15000006	Hidalgo	12110207, 12110220	15000146	Infrastructure	0.51	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 1,628,000.00	\$ -		0.69	0.26	508	0	1460	0	71	0	10.7	0	
153000010	North Pharr Culvert Improvements	Install culvert improvements, 2-10X10 RCB, alongside the ditch running parallel to N. Erika Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Repave W. Sioux Road.	15000005, 15000006	Hidalgo	12110207, 12110221	15000146	Infrastructure	0.57	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 869,000.00	\$ -		0.45	0.06	476	0	1930	0	42	0	9.5	0	
153000011	North Pharr Mitigation Project	Construct 3400-linear feet of channel improvements on the ditch running from south to north along North Fir Street and 2800-linear feet of channel improvements on the Pharr-McAllen Lateral Ditch up to North I road. Install culvert improvements, 2 - 8' x 4' RCB, alongside the ditch running parallel to Fir Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Construct an inline Regional Detention Facility (RDF) along the Pharr-McAllen drain within the City Limits of San Juan. The pond will require a footprint of 35-acres.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110222	15000146	Infrastructure	0.72	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 8,195,000.00	\$ -		0.69	0.26	370	0	1504	0	119	0	15.8	0	
153000012	Pharr - San Juan Regional Detention Facility	Construct an inline Regional Detention Facility (RDF) along the Pharr-McAllen drain within the City Limits of San Juan. The pond will require a footprint of 35 acres, 300 acre-feet of storage volume, have a maximum depth of approximately 14 feet, and require some property acquisition.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110224	15000119	Regional Detention	2.61	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 5,148,000.00	\$ -		1.42	1.20	1397	956	5834	0	385	0	39.1	0	
153000013	Weslaco Stormwater Improvement Plan - Pleasantview Drive and 11th Street	Installation of 3,220 LF of new storm drain system consisting of two - 8' x 4' RCBs along Mile 3 ½.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110228	15000119, 15000146	Infrastructure	0.86	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 5,462,600.00	\$ -		0.17	0.44	29	0	205	0	100	0	7.4	0	

TABLE 13: POTENTIALLY FEASIBLE FLOOD MITIGATION PROJECTS IDENTIFIED BY RFPG

Table 13: Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	Reduction in Flood Risk												Pre-Project Level-of-Service	Post-Project Level-of-Service	Cost/Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	RFPG Recommendation (Y/N)	Reason for Recommendation
	Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed from 100yr (1% annual chance) Flood risk	Number of structures removed from 500yr (0.2% annual chance) Flood risk	Residential structures removed from 100yr (1% annual chance) Flood risk	Estimated Population removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed from 100yr (1% annual chance) Flood risk	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk (Miles)	Estimated farm & ranch land removed from 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)												
153000001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Yes	0	No	0	0	0	No	BCR is less than 1	
153000002																					1.99			
153000003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Yes	0	No	0	0	0.1	No	BCR is less than 3	
153000004																					0.06			
153000005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Yes	0	No	0			No	Need more information to determine no negative effe	
153000006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Yes	0	No	0	0.08	No	BCR is less than 6		
153000007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Yes	0	No	0			No	Solutions are not for 1% ACE LOS	
153000008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Yes	0	No	0	0.49	No	BCR is less than 1		
153000009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Yes	0	No	0	3.21	No	It is part of North Pharr Mitigation Project		
153000010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Yes	0	No	0	4.24	No	It is part of North Pharr Mitigation Project		
153000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	No	0	6.49	Yes	It complies with TWDB criteria for FMPs		
153000012	956	441	0	0	2019	0	0	0	0	0	0	0	0	0	0	No	0	No	0	1.31	Yes	It complies with TWDB criteria for FMPs		
153000013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Yes	0	No	0	8.72	No	It is part of North Pharr Mitigation Project		

TABLE 13: POTENTIALLY FEASIBLE FLOOD MITIGATION PROJECTS IDENTIFIED BY RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watershed Name	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Recurring Noncapital Cost (\$)	Potential Funding Sources and Amount	Flood Risk									
																Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (Miles)	Estimated farm & ranch land at 100-year flood risk (acres)
153000014	Weslaco Stormwater Improvement Plan - Los Torritos Street and North Kansas Avenue	Construction of a 30 acre pond at Mayor Pablo Peña Park, replacement of the existing 48-inch and 60-inch storm drain system with 2 – 8' x 6' RCBs along Plaza Street and Agostadero Street, approximately 1,500 LF of channel widening along the length of the pond, and the addition of a new storm drain system consisting of three – 8' x 6' RCBs along Los Torritos Street to near Texas Boulevard.	15000005, 15000006	Hidalgo	12110207, 12110229	15000119, 15000146	Infrastructure	1.15	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 24,112,088.00	\$ -		1.40	0.75	155	0	2951	1	133	0	25.1	0
153000015	Weslaco Stormwater Improvement Plan - Mile 10 N and Mile 5 1/2 W	Construction of an 8 acre detention pond, with approximately 4,000 LF of channel widening along the back of the neighborhoods and between the Justice Raul A. Gonzalez Elementary School and Joe Calvillo Jr Career & Technology Education Complex; replacement of existing undersized channel culvert with two – 8' x 5' reinforced concrete boxes (RCBs), and adding two – 8' x 5' RCBs to connect the existing drainage ditches to the drain channel system on the east.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110230	15000146	Infrastructure	1.21	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 4,441,008.00	\$ -		0.55	0.15	72	0	686	0	48	0	4.3	0
153000016	Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83	Replacement of 48 – inch culverts at two roadway crossings with 6' x 4' RCBs.	15000005, 15000006	Hidalgo	12110207, 12110231	15000119, 15000146	Infrastructure	0.16	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 93,808.00	\$ -		0.06	0.01	183	0	310	0	73	0	4.5	0
153000017	Weslaco Stormwater Improvement Plan - Texas Boulevard to Airport Drive, South of Business 83	Construction of two detention ponds, 10 acres near Texas Boulevard and 18th Street and 3 acres south of Dawson Street, a berm, approximately 5,400 LF of channel widening and extension, and installation of an 8' x 4' RCB storm drain system near Border Ave. to Bridge Ave.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110232	15000119, 15000146	Infrastructure	2.45	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 43,984,512.00	\$ -		3.05	1.28	667	0	2399	0	344	0	32.5	0
153000018	Weslaco Stormwater Improvement Plan - West Weslaco	The project is located just west of Border Avenue, between US 83 and Zelma Street. Construction of three detention ponds, 18 acres east of Vaughn Road and Midway Road, 26 acres near West 6th Street and Milano Road and 60 acres at Harlon Block Sports Complex, approximately 17,000 LF of channel widening connecting the ponds, and installation of approximately 4500 LF of large (8' x 4', 8' x 5', 8' x 6') RCB storm drain system to improve conveyance along the channels to the ponds.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110233	15000119, 15000146	Infrastructure	2.25	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 37,305,840.00	\$ -		1.94	0.48	638	0	3620	1	244	0	27.8	0
153000019	Weslaco Stormwater Improvement Plan - Westgate Drive and Sugar Cane Drive	Construction of two detention ponds, 11 acres near Clecker-Heald Elementary School and 8 acres behind the commercial properties north of Interstate 2, approximately 4,500 LF of channel widening connecting the two ponds, addition of a new 42-inch reinforced concrete pipe (RCP) culvert east of Border Avenue, and installation of approximately 5,600 LF of an 8' x 4' RCB storm drain system along West Paisano Lane and East Ballard Street.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110234	15000146	Infrastructure	1.98	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 11,099,088.00	\$ -		1.55	1.06	423	0	2931	0	178	0	30.2	0
153000020	Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & Ware Rd.	Approximately 1 mile of proposed channel improvements. Proposed culverts. Proposed Detention Ponds with pond north of Mile 8.5 Rd. to collect runoff from the west and has an approximate footprint of 12 acres and storage capacity of 60 acre-ft and will outfall south towards the pond south of Mile 8.5 Rd.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110279	15000075	Infrastructure	0.79	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 19,899,000.00	\$ -		0.46	0.13	124	0	499	0	90	0	5.7	0
153000021	Precinct 4 MDP - Risk Area B at Mile 6 & North Ware Rd.	Regional Detention Facilities with a pond footprint of 25 acres along the Existing HCDD1 West Main Drain. Storm Drain and Local Drainage Improvements. Channel maintenance.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110280	15000075, 15000146	Infrastructure	2.57	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 27,175,500.00	\$ -		1.31	0.18	311	0	1638	0	77	0	18.9	0
153000022	Precinct 4 MDP - Risk Area C at FM 2812 & FM 493	Channel Improvements (Widening & Regrading) to Existing J-01 Drain with approximately 1.5 miles of proposed improvements. Channel Improvements (Channel Maintenance & Flowline Regrading) to Existing DA-1 Ext. Drain with approximately 0.4 miles of proposed improvements. Proposed detention pond will have an approximate footprint of 9 acres and storage capacity of 90 acre-ft. Gate inlets & proposed storm drain channel maintenance & debris removal.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110281	15000096, 15000146	Infrastructure	16.08	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 7,887,000.00	\$ -		5.96	2.10	273	0	1167	0	167	0	44.4	0
153000023	Precinct 4 MDP - Risk Area D at S. McColl & Canton Rd.	Channel Improvements (Widening & Regrading) to Existing McAllen Lateral & North Main Drain with approximately 2.25 miles of proposed improvements from S McColl St. to State Highway 107. Crossings at W Canton Rd., W Freddy Gonzalez Dr., and W Sprague St. were all evaluated up to the 25-year design storm criteria for upsizing evaluation.	15000005, 15000006	Hidalgo	12110207, 12110282	15000146	Infrastructure	1.40	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 6,358,000.00	\$ -		1.12	0.15	735	0	6686	1	131	0	46.7	0
153000024	Precinct 4 MDP - Risk Area E at Hwy 107 & Val Verde Rd.	Channel Improvements with approximately 0.3 miles of proposed improvements. Proposed detention pond north of Tex-Mex Rd. and east of S 87th St. has an approximate footprint of 4.25 acres and capacity of 20 acre-ft. Gate Inlets and Proposed Storm Drain 5'x5' gate inlets spaced along every 500' of storm drain with a 4'x2' RCB along S 85th St.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110283	15000146	Infrastructure	0.09	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 4,983,000.00	\$ -		0.08	0.01	58	0	280	0	16	0	4.6	0
153000025	Precinct 4 MDP - Risk Area F at Texas Rd. & Cesar Chavez Rd.	Channel Improvements with approximately 0.6 miles of proposed improvements. Gate Inlets and Proposed Storm Drain with gate inlets in sag spaced along every 500' tying into a 42" RCP along Cesar Chavez Road starting at just south of Texas Rd to the Curry Drain. Culvert Improvements with connections between the proposed open channels and existing HCDD1 Edinburg Stub will require the installation of 4'x3' RCBs.	15000005, 15000006	Hidalgo	12110207, 12110284	15000146	Infrastructure	0.56	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 7,920,000.00	\$ -		0.12	0.16	33	0	155	0	48	0	3.3	0
153000026	Precinct 4 MDP - Risk Area G at Hoehn Rd. & Mile 11 Rd.	Channel Improvements with approximately 0.75 miles of proposed improvements. Proposed Pond north of County Road 3424 and west of County Road 3421 has an approximate footprint of 5 acres and capacity of 35 acre-ft. Gate Inlets and Proposed Storm Drain 5'x5' gate inlets will be located at the southwest corner of Eubanks and County Road 3424 with a connection to a 42" DIA RCP storm drain. Proposed culverts.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110285	15000075	Infrastructure	0.79	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 6,061,000.00	\$ -		0.47	0.08	141	0	592	0	36	0	10.2	0

TABLE 13: POTENTIALLY FEASIBLE FLOOD MITIGATION PROJECTS IDENTIFIED BY RFPG

FMP ID	Reduction in Flood Risk												Pre-Project Level-of-Service	Post-Project Level-of-Service	Cost/Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	RFPG Recommendation (Y/N)	Reason for Recommendation
	Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed from 100yr (1% annual chance) Flood risk	Number of structures removed from 500yr (0.2% annual chance) Flood risk	Residential structures removed from 100yr (1% annual chance) Flood risk	Estimated Population removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed from 100yr (1% annual chance) Flood risk	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk (Miles)	Estimated farm & ranch land removed from 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)												
153000014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	No	Solutions are not for 1% ACE LOS		
153000015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	No	Solutions are not for 1% ACE LOS		
153000016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	No	Solutions are not for 1% ACE LOS		
153000017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	No	Solutions are not for 1% ACE LOS		
153000018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	No	Solutions are not for 1% ACE LOS		
153000019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	No	Solutions are not for 1% ACE LOS		
153000020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	1.7	No	Need more information to determine no negative effe	
153000021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	1.3	No	Need more information to determine no negative effe	
153000022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0.4	No	Need more information to determine no negative effe	
153000023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	1.4	No	Need more information to determine no negative effe	
153000024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	1.3	No	Need more information to determine no negative effe	
153000025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	2.45	No	Need more information to determine no negative effe	
153000026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0.5	No	Need more information to determine no negative effe	

TABLE 13: POTENTIALLY FEASIBLE FLOOD MITIGATION PROJECTS IDENTIFIED BY RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watershed Name	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Recurring Noncapital Cost (\$)	Potential Funding Sources and Amount	Flood Risk										
																Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (Miles)	Estimated farm & ranch land at 100-year flood risk (acres)	
153000027	Precinct 4 MDP - Risk Area I at Sharp Rd. & E Monte Cristo Rd	Inlets and proposed storm drain with Approximately 1,100' of 4'x4' RCB storm drain with curb inlets to be installed along Hendrix Dr. and Gaston Cr. with approximately 1,200' of 6'x4' RCB storm with grate and sag inlets along Uresti Rd. with connection to the HCDD1 J-02 Drain. Proposed installation of grate and sag inlets along Mile 19 Rd. (Phase Two) and proposed installation of grate and sag inlets along Sharp Rd. (Phase Two). Proposed Culverts Improvements (Phase One). Proposed detention pond with 9 acre footprint. Channel maintenance.	15000005, 15000006	Hidalgo	12110207, 12110286	15000096	Infrastructure	0.73	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 5,995,000.00	\$ -		0.41	0.18	67	0	354	0	64	0	15.4	0	
153000028	Precinct 4 MDP - Risk Area J at SH107 & FM 907	Channel Improvements (Widening & Regrading) to Existing HCDD1 "Y" drain with approximately 0.75 miles of proposed channel improvements beginning at Fresno Dr. and ending at E Curry Rd. Proposed Drainage Grate Inlets approximately 3,800' of storm drain to provide local drainage improvements north and west of existing HCDD1 "Y" Drain in two separate systems. Proposed culverts improvements. Proposed detention pond with a 2.7 acre footprint.	15000005, 15000006	Hidalgo	12110207, 12110287	15000146	Infrastructure	0.15	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 3,608,000.00	\$ -		0.08	0.03	19	0	144	0	26	0	3.8	0	
153000029	Risk Area 11 Rancho Escondido	Project includes constructing 10'x2' U-shaped channel from Flores Drive to just south of Microtel Inn Suites, replacing existing culvert under Maza Drive with 1-8'x4' RCB, and installing curb inlet at cul-de-sac on Nancy Drive.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.05	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 911,900.00	\$ -		0.01	0.00	16	0	100	0	8	0	0.2	0	
153000030	Risk Area 12 Fox Borough Drive	Project includes bypassing flow from inlet at PointLoma Drive and North Point Drive to the detention pond with 1 - 8'x4' RCB and installing additional curb inlets on N. Point Drive and Silver Oak Circle.	15000005, 15000006, 15000007, 15000008	Maverick	13080001, 13080002	15000150	Infrastructure	0.04	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 1,185,800.00	\$ -		0.01	0.00	24	0	95	0	11	0	0.4	0	
153000031	Risk Area 13 Celle De Los Santos neighborhood. Additional culvert under irrigation canal.	Project includes upgrading existing culvert crossing irrigation canal from 2-6'x4' RCB to 4-6'x4' RCB.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.13	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 181,500.00	\$ -		0.38	0.02	8	0	50	0	9	0	0.3	0	
153000032	Risk Area 15 Trib 3 Detention at Main Street	Project includes constructing 10 acre detention pond (29 ac-ft volume) along East Channel north of Highway 277 and installing flap-gates at flume outfalls on Omar Drive and Jana Drive, to prevent more frequent stormwater from backing up into the neighborhood on the west side of the channel.	15000005, 15000006, 15000007, 15000008	Maverick	13080001, 13080002	15000150	Infrastructure	1.24	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 828,300.00	\$ -		0.60	0.06	191	0	1331	1	86	0	5.7	0	
153000033	Risk Area 2 Treasure Hills	Project includes constructing a 4' deep trapezoidal concrete channel with 8' bottom width and 2:1 side slopes, from detention pond outfall to existing culverts.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	1.07	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 597,300.00	\$ -		0.65	0.08	26	0	268	0	71	0	5.1	0	
153000034	Risk Area 3 Arrow Point Boulevard	Project includes constructing small retaining wall at downstream of flume outfall to force flow towards Stone Way and constructing a 2' wide and 6" deep concrete flume from existing flume outfall to Stone Way.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.59	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 52,800.00	\$ -		0.11	0.01	0	0	0	0	17	0	2.4	0	
153000035	Risk Area 4 Bibb & Misty Willow storm drain	Project includes installing 6'x4' RCB along Misty Willow Drive from N Bibb Avenue to existing channel between N Bibb Avenue and Timber Valley and installing curb inlets on N Bibb Avenue and Misty Willow Drive.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.06	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 316,800.00	\$ -		0.01	0.00	17	0	79	0	12	0	0.6	0	
153000036	Risk Area 5 Debona Drive	Project includes constructing a 5' deep trapezoidal channel approximately 30 feet wide with 3:1 side slopes and a 5' concrete pilot channel, replacing Juarez Street culvert with 8'x4' box culvert, and realigning existing channel to provide additional distance from homes.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.10	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 359,700.00	\$ -		0.04	0.01	3	0	118	0	31	0	1.8	0	
153000037	Risk Area 6 Trib 2 bypass & detention at Eagle Pass High School fields	Project includes bypassing flow from Golfcrest Drive to the detention pond with 1-6'x4', RCB Modifying outfall structure from 2-5'x3' RCB to 1-5'x3' RCB, and Lowering existing baseball field by 3 ft to provide an additional 30 ac-ft of storage.	15000005, 15000006, 15000007, 15000008	Maverick	13080001, 13080002	15000150	Infrastructure	0.10	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 957,000.00	\$ -		0.04	0.01	5	0	18	0	17	0	1.1	0	
153000038	Risk Area 8 Tributary 2 channel widening near Alexander Drive	Project includes constructing a 3' deep trapezoidal channel with a 76' bottom width with 4:1 side slopes from Graves Elementary School to the confluence of existing channels and constructing a 4' deep trapezoidal channel with a 11' bottom width with 4:1 side slopes from confluence of existing channels to existing culvert at Kelso Drive.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.60	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 80,300.00	\$ -												

TABLE 13: POTENTIALLY FEASIBLE FLOOD MITIGATION PROJECTS IDENTIFIED BY RFPG

FMP ID	Reduction in Flood Risk												Pre-Project Level-of-Service	Post-Project Level-of-Service	Cost/Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	RFPG Recommendation (Y/N)	Reason for Recommendation
	Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed from 100yr (1% annual chance) Flood risk	Number of structures removed from 500yr (0.2% annual chance) Flood risk	Residential structures removed from 100yr (1% annual chance) Flood risk	Estimated Population removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed from 100yr (1% annual chance) Flood risk	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk (Miles)	Estimated farm & ranch land removed from 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)												
153000027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0.63	No	Need more information to determine no negative effe	
153000028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	1.07	No	Need more information to determine no negative effe	
153000029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0.31	No	Need more information to determine no negative effe	
153000030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0	No	Need more information to determine no negative effe	
153000031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0.24	No	Need more information to determine no negative effe	
153000032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	1.62	No	Need more information to determine no negative effe	
153000033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0.41	No	Need more information to determine no negative effe	
153000034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0.3	No	Need more information to determine no negative effe	
153000035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0.63	No	Need more information to determine no negative effe	
153000036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0	0.49	No	Need more information to determine no negative effe	
153000037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	0	0		No	Need more information to determine no negative effe	
																	0	No	0	0		No	Need more information to determine no negative effe	

Appendix B

Table 14:

Potentially Feasible Flood Management Strategies Identified by RFPG

TABLE 14: POTENTIALLY FEASIBLE FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

Table 14: Potentially Feasible Flood Management Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Reoccurring Noncapital Cost (\$)	Potential Funding Sources and Amount	Flood Risk										
																	Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	
15200001	Bayview Action #19	Upgrade the Town's website to include local information on hazards, risks, mitigation, protective actions, and applicable ordinances	15,000009, 15000010, 15000013, 15000014, 15000015, 15000016	Cameron	12110208			Flood Measurement and Warning	0	Urban	Bayview	Bayview	yes	\$ 10,000	\$ 1,000	HMGP; Local funding	0	0	0	35	27	102	0	0	0	0	5
15200002	Bayview Action #7	Approve and Adopt FEMA Flood Insurance Rate Maps	15000019, 15000020	Cameron	12110208			Regulatory and Guidance	0	Urban	Bayview	Bayview	yes	\$ 1,000	\$ 1,000	Local Funding	0	0	0	35	27	102	0	0	0	0	5
15200003	Bayview Action #8	Develop cooperative agreement with state and county to address flood risk to roadways leading in and out of town – outside of jurisdictional boundaries	15000005, 15000006	Cameron	12110208			Regulatory and Guidance	0	Urban	Bayview	Bayview	yes	\$ 1,000	\$ 1,000	Local Funding	0	0	0	35	27	102	0	0	0	0	5
15200004	Bayview Action #9	Participate in the National Flood Insurance Program	15000023, 15000024	Cameron	12110208			Regulatory and Guidance	0	Urban	Bayview	Bayview	yes	\$ 1,000	\$ 1,000	Local Funding	0	0	0	35	27	102	0	0	0	0	5
15200005	Indian Lake Action #2	Educate property owners about residential mitigation measures for all natural hazards such as the need to elevate structures, implementing residential mitigation measures, install retaining walls, and avoid building in high hazard areas	15000037, 15000038	Cameron	12110208			Education and Outreach	0	Urban	Bayview	Bayview	yes	\$ 500	\$ 1,000	General Fund; HMGP	0	0	0	9	9	26	0	0	0	0	0
15200006	Brownsville PUB Action #8	Develop program to annually remove buildup of silt in area Resacas that become cutoff from the river and contribute to flooding during severe flood or hurricane event	15000005, 15000006	Cameron	12110208			Regulatory and Guidance	0	Urban	Brownsville	Brownsville	yes	\$ 20,000	\$ 1,000	grants	0	0	0	8150	7064	62491	12	0	0	0	391
15200007	City of Brownsville Action #2	Join the Community Rating System program to reduce risk and flood insurance premiums to residents	15000027, 15000028	Cameron	12110208			Regulatory and Guidance	0	Urban	Brownsville	Brownsville	yes	\$ 100,000	\$ 1,000	Local Revenue, Storm water fee	0	0	0	8150	7064	62491	12	0	0	0	391
15200008	Indian Lake Action #11	Adopt revised floodplain ordinance to include model ordinance language and higher NFIP standards such as freeboard	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Indian Lakes	Indian Lakes	yes	\$ 500	\$ 1,000	General Fund; HMGP	0	0	0	9	9	26	0	0	0	0	0
15200009	Indian Lake Action #9	Prepare and advertise local evacuation plan and procedures	15000013, 15000014	Cameron	12110208			Education and Outreach	0	Urban	Indian Lakes	Indian Lakes	yes	\$ 500	\$ 1,000	General Fund; HMGP; FEMA AFG	0	0	0	9	9	26	0	0	0	0	0
15200010	Port Isabel Action #10	Prepare local evacuation plan	15000013, 15000014	Cameron	12110208			Education and Outreach	0	Urban	Port Isabel	Port Isabel	yes	\$ 500	\$ 1,000	HMGP; General Fund; AFG	0	0	0	761	632	3459	1	0	0	0	66
15200011	Port Isabel Action #11	Update floodplain management ordinances to include higher standards required to join the CRS program; Join the CRS program upon adoption of ordinance	15000025, 15000026, 15000027, 15000038	Cameron	12110208			Regulatory and Guidance	0	Urban	Port Isabel	Port Isabel	yes	\$ 500	\$ 1,000	HMGP; General Funds	0	0	0	761	632	3459	1	0	0	0	66
15200012	Port Isabel Action #12	Adopt NFIP model ordinance with higher floodplain standards	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Port Isabel	Port Isabel	yes	\$ 500	\$ 1,000	HMGP; General Funds	0	0	0	761	632	3459	1	0	0	0	66
15200013	Port Isabel Action #21	Develop a plan to use the internet and social media to warn citizens of disasters and extreme weather on a regular basis as well as how to prepare for such events and mitigate damages	15000013, 15000014	Cameron	12110208			Flood Measurement and Warning	0	Urban	Port Isabel	Port Isabel	yes	\$ 500	\$ 1,000	HMGP; General Funds	0	0	0	761	632	3459	1	0	0	0	66
15200014	Port Isabel Action #25	Develop an early warning system for residents to notify of natural disasters	15000009, 15000010	Cameron	12110208			Flood Measurement and Warning	0	Urban	Port Isabel	Port Isabel	yes	\$ 100,000	\$ 1,000	HMGP; General Funds	0	0	0	761	632	3459	1	0	0	0	66
15200015	Primera Action #1	Amend subdivision ordinances to require retention or detention ponds in any new subdivision	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Port Isabel	Port Isabel	yes	\$ 5,000	\$ 1,000	Local Funds	0	0	0	310	290	1229	0	0	0	0	15
15200016	Primera Action #10	Adopt higher floodplain standards such as freeboard and cumulative substantial damage	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Primera	Primera	yes	\$ 5,000	\$ 1,000	Local Funds; HMGP	0	0	0	310	290	1229	0	0	0	0	15
15200017	Primera Action #8	Develop an early warning system to new areas of the jurisdiction to alert residents of impending severe weather	15000009, 15000010	Cameron	12110208			Flood Measurement and Warning	0	Urban	Primera	Primera	yes	\$ 75,000	\$ 1,000	Local Funds; HMGP	0	0	0	310	290	1229	0	0	0	0	15
15200018	Rancho Viejo Action #3	Adopt the International Building Code (IBC) and International Residential Code (IRC); revise and update regulatory floodplain maps; adopt higher standards in floodplain ordinances including freeboard, no-rise in the floodplain, cumulative substantial damage, etc.	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Primera	Primera	yes	\$ 5,000	\$ 1,000	Local Funds; HMGP	0	0	0	5	5	23	0	0	0	0	6
15200019	Rancho Viejo Action #11	Update website with maps and information including StormReady data and links; Mail educational brochures to residents in hazard-prone areas on mitigation measures to reduce damages	15000009, 15000010, 15000015, 15000016	Cameron	12110208			Education and Outreach	0	Urban	Rancho Viejo	Rancho Viejo	yes	\$ 5,000	\$ 1,000	Local Funds; HMGP	0	0	0	5	5	23	0	0	0	0	6
15200020	Rio Hondo Action #4	Adopt ASCE24-05 Flood Resistant Design and Construction to reduce flooding caused by Storm Surge	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Rancho Viejo	Rancho Viejo	yes	\$ 2,000,000	\$ 1,000	USDA; City Funds; HMGP	0	0	0	2	1	3	0	0	0	0	2
15200021	San Benito Action #13	Adopt higher standards into the flood damage prevention ordinance to limit floodplain development and provide higher protection to structures in the floodplain	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	San Benito	San Benito	yes	\$ 10,000	\$ 1,000	CDBG; EDC; Pre-Disaster Mitigation Grant Program	0	0	0	2311	1931	11492	3	0	0	0	124
15200022	South Padre Island #13	Adopt higher floodplain standards in local floodplain ordinance	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	South Padre Island	South Padre Island	yes	\$ 5,000	\$ 1,000	HMGP; Local Funds	0	0	0	928	706	3759	2	0	0	0	41
15200023	South Padre Island #3	Adoption erosion control ordinance and prohibit development in high-hazard areas	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	South Padre Island	South Padre Island	yes	\$ 5,000	\$ 1,000	HMGP; Local Funds	0	0	0	928	706	3759	2	0	0	0	41
15200024	Alamo # 4-1.1	Develop plan to create A Working Evacuation List For Emergency Situations. Prioritize Flood Prone Areas	15000005, 15000006	Hidalgo	12110208			Regulatory and Guidance	0	Urban	Alamo	Alamo	yes	\$ 1,000	\$ 1,000	Identify Grants; Police Department Budget	0	0	0	2756	2203	13746	4	0	0	0	127
15200025	Alamo #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Alamo	Alamo	yes	\$ 2,000	\$ 1,000	Jurisdiction Budget	0	0	0	2756	2203	13746	4	0	0	0	127
15200026	Edcouch #3-1.1	Complete Activities Required To Be A Nfip Participating Community	15000023, 15000024	Hidalgo	12110208			Regulatory and Guidance	0	Urban	Edcouch	Edcouch	yes	\$ 5,000	\$ 1,000	FEMA	0	0	0	218	186	1004	0	0	0	0	13

TABLE 14: POTENTIALLY FEASIBLE FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

Potentially Feasible Flood Management Strategies Identified by RFPG, continued

FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Considerat ion of Nature- based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
	Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed from 100yr (1% annual chance) Flood risk	Number of structures removed from 500yr (0.2% annual chance) Flood risk	Residential structures removed from 100yr (1% annual chance) Flood risk	Estimated Population removed from 100yr (1% annual chance)	Critical facilities removed from 100yr (1% annual chance)	Number of low water crossings removed from 100yr (1% annual chance)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk	Estimated active farm & ranch land removed from 100yr	Estimated reduction in injuries (if available)	Estimated reduction in fatalities (if available)					
152000001		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000002		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000003		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000004		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000005		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000006		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000007		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000008		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000009		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000010		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000011		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000012		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000013		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000014		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000015		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000016		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000017		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000018		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000019		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000020		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000021		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000022		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000023		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000024		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000025		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000026		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No

TABLE 14: POTENTIALLY FEASIBLE FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Noncapital Cost (\$)	Potential Funding Sources and Amount	Flood Risk										
																	Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	
152000027	Edcouch #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edcouch	Edcouch	yes	\$ 2,000	\$ 1,000	Jurisdiction Budget	0	0	0	218	186	1004	0	0	0	0	13
152000028	Edcouch #7-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15,000009, 15000010, 15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edcouch	Edcouch	yes	\$ 25,000	\$ 1,000	Jurisdiction Budget	0	0	0	218	186	1004	0	0	0	0	13
152000029	Edinburg #1-1.2	Develop a Reverse 9-1-1 System	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edinburg	Edinburg	yes	\$ 250,000	\$ 1,000	Federal, State, & Local	0	0	0	9111	7818	83415	15	1	0	0	377
152000030	Edinburg #7-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edinburg	Edinburg	yes	\$ 1,000	\$ 1,000	Jurisdiction Budget	0	0	0	9111	7818	83415	15	1	0	0	377
152000031	Edinburg #9-1.2	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edinburg	Edinburg	yes	\$ 31,000	\$ 1,000	Jurisdiction Budget	0	0	0	9111	7818	83415	15	1	0	0	377
152000032	Hidalgo #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110207, 12110213			Education and Outreach	0	Urban	Hidalgo	Hidalgo	yes	\$ 5,000	\$ 1,000	N/A	0	0	0	960	795	6523	2	0	0	0	63
152000033	Hidalgo County #11-1.2	Develop a An Inspection, Maintenance, And Enforcement Program To Ensure Continued Structural Integrity of Dams And Levees.	15000021, 15000022	Hidalgo	12110207, 12110231			Regulatory and Guidance	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 10,000	\$ 1,000	Jurisdiction Budget, Grants	0	0	0	68003	54857	374698	62	16	0	0	3345
152000034	Hidalgo County #12-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110207, 12110233			Flood Measurement and Warning	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 100,000	\$ 1,000	FEMA, Department Budget	0	0	0	68003	54857	374698	62	16	0	0	3345
152000035	Hidalgo County #14-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110207, 12110236			Flood Measurement and Warning	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 100,000	\$ 1,000	Department Budget	0	0	0	68003	54857	374698	62	16	0	0	3345
152000036	Hidalgo County #2-2.1	Incorporate Assessments of Hazards, Including Hurricane, Flood, Wild Land Fires, And Severe Storms, Into Site Selection And Design For New Buildings And When Siting Or Leasing County Facilities	15000019, 15000020	Hidalgo	12110207, 12110213			Flood Measurement and Warning	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 25,000	\$ 1,000	Annual Dept. Budget	0	0	0	68003	54857	374698	62	16	0	0	3345
152000037	Hidalgo County #3-1.2	Enhance The Appropriate Websites To Provide Convenient Access To Most Current Hazard Maps.	15000013, 15000014, 15000037, 15000038	Hidalgo	12110207, 12110217			Education and Outreach	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 50,000	\$ 1,000	Annual Dept. Budget And External Funding	0	0	0	68003	54857	374698	62	16	0	0	3345
152000038	La Villa #6-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Education and Outreach	0	Urban	La Villa	La Villa	yes	\$ 1,000	\$ 1,000	N/A	0	0	0	351	291	2114	2	0	0	0	16
152000039	La Villa #8-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	La Villa	La Villa	yes	\$ 31,000	\$ 1,000	Jurisdiction Budget	0	0	0	351	291	2114	2	0	0	0	16
152000040	McAllen #11-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	McAllen	McAllen	yes	\$ 1,000	\$ 1,000	Jurisdiction Budget	0	0	0	10318	8859	63135	12	0	0	0	516
152000041	McAllen #1-2.1	Develop Emergency Notification Awareness System For Traveling Public Via Transportation System In The Event of Severe Weather In McAllen	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	McAllen	McAllen	yes	\$ 500,000	\$ 1,000	Grants, Matching City Funds	0	0	0	10318	8859	63135	12	0	0	0	516
152000042	McAllen #1-2.1	Develop a plan to provide A Means of Disseminating Emergency Information To The Citizens of McAllen	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	McAllen	McAllen	yes	\$ 500,000	\$ 1,000	Grants, Matching City Funds	0	0	0	10318	8859	63135	12	0	0	0	516
152000043	Mercedes #11-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Mercedes	Mercedes	yes	\$ 25,000	\$ 1,000	Jurisdiction Budget	0	0	0	1091	686	4326	1	0	0	0	65
152000044	Mercedes #9-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Other	0	Urban	Mercedes	Mercedes	yes	\$ 1,000	\$ 1,000	Jurisdiction Budget	0	0	0	1091	686	4326	1	0	0	0	65
152000045	Mission #1-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Mission	Mission	yes	\$ 31,000	\$ 1,000	City of Mission	0	0	0	5153	4376	22771	6	0	0	0	187
152000046	Mission #7-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Mission	Mission	yes	\$ 8,500	\$ 1,000	City of Mission	0	0	0	5153	4376	22771	6	0	0	0	187
152000047	Palmview #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Education and Outreach	0	Urban	Palmview	Palmview	yes	\$ 1,000	\$ 1,000	N/A	0	0	0	799	633	4240	4	0	0	0	63
152000048	Palmview #7-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Palmview	Palmview	yes	\$ 31,000	\$ 1,000	Jurisdiction Budget	0	0	0	799	633	4240	4	0	0	0	63
152000049	Pharr #10-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Pharr	Pharr	yes	\$ 5,000	\$ 1,000	Jurisdiction Budget	0	0	0	4875	3940	20216	2	0	0	0	233
152000050	Pharr #8-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Pharr	Pharr	yes	\$ 1,000	\$ 1,000	Jurisdiction Budget	0	0	0	4875	3940	20216	2	0	0	0	233
152000051	Alamo # 4-1.2	Develop a plan to Provide Traffic Control And Evacuation Assistance During Emergency Situations	15000005, 15000006	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Alamo	Alamo	yes	\$ 10,000	\$ 1,000	Identify Grants; Police Department Budget	0	0	0	2756	2203	13746	4	0	0	0	127

TABLE 14: POTENTIALLY FEASIBLE FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Considerat ion of Nature- based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
	Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed from 100yr (1% annual chance) Flood risk	Number of structures removed from 500yr (0.2% annual chance) Flood risk	Residential structures removed from 100yr (1% annual chance) Flood risk	Estimated Population removed from 100yr (1% annual chance)	Critical facilities removed from 100yr (1% annual chance)	Number of low water crossings removed from 100yr (1% annual chance)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk	Estimated active farm & ranch land removed from 100yr	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)					
152000027		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000028		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000029		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000030		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000031		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000032		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000033		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000034		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000035		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000036		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000037		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000038		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000039		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000040		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000041		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000042		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000043		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000044		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000045		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000046		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000047		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000048		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000049		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000050		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No
152000051		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No

Appendix B

Table 15:

Potential Flood Management Evaluations Identified by RFPG

TABLE 15: FLOOD MANAGEMENT EVALUATIONS RECOMMENDED BY RFPG

Table 15: Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	RFPG Recommendation (Y/N)	Reason for Recommendation
15100001	Brooks County	Develop Flood risk maps for the county of Brooks	1500019, 1500020	Brooks	12110207			Flood Risk Modeling/ Mapping	685.7		Brooks County	Brooks County	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100002	Bayview Action #6	Upgrade three roadway bridges and one footbridge including structural improvements and stabilization to reduce damages caused by flooding and high winds	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Bayview	Bayview	Yes	\$ 369,600.00	Yes	Meets TWDB & RFPG criteria for FMEs
15100003	City of Brownsville Action #1	Upgrade and increase culverts at specific locations in City in order to adequately convey storm water. Selected locations including Boca Chica Blvd. area, International Blvd., North Main drainage ditch	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Brownsville	Brownsville	Yes	\$ 396,000.00	No	Need more information to determine need and whether it meets TWDB and RFPG criteria for FME. Brownsville has current Category 1 FIF study.
15100004	City of Brownsville Action #16	Construct a weir to prevent flood risk from the overflow of canals located on the North side of Brownsville	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Brownsville	Brownsville	Yes	\$ 39,073.35	No	Need more information to determine need and whether it meets TWDB and RFPG criteria for FME. Brownsville has current Category 1 FIF study.
15100005	City of Brownsville Action #17	Construct and/or expand culverts on rural roads and main stream outfalls. Locations include: 1) Central Ave to Martinelle; 2) Robindale to Old Place ; 3) Dana 802 to High Emerson ; 4) Pablo Kisel from Morrison to Alton Gloor	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Brownsville	Brownsville	Yes	\$ 99,000.00	No	Need more information to determine need and whether it meets TWDB and RFPG criteria for FME. Brownsville has current Category 1 FIF study.
15100006	City of Brownsville Action #24	Improve drainage and replace or upgrade gutters at City Plaza buildings	1500007, 1500008	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1	Urban/Local, Riverine	Brownsville	Brownsville	Yes	\$ 19,800.00	No	Need more information to determine need and whether it meets TWDB and RFPG criteria for FME. Brownsville has current Category 1 FIF study.
15100007	Indian Lake Action #1	Elevate and harden S Resaca Shore Drive bridge to reduce risk of damages and maintaining critical access route	1500005, 1500006	Cameron	12110208	121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.21	Urban/local, Riverine	Indian Lakes	Indian Lakes	Yes	\$ 92,400.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100008	Indian Lake Action #12	Upgrade/Elevate Henderson Road bridge over Resaca to remove from potential floodway, reduce the risk of damages, and maintain critical access route	1500005, 1500006	Cameron	12110208	121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.16	Urban/local, Riverine	Indian Lakes	Indian Lakes	Yes	\$ 184,800.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100009	Indian Lake Action #17	Upgrade shoulders and provide turnouts along Henderson Road to support evacuation route	1500005, 1500006	Cameron	12110208	121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.78	Urban/local, Riverine	Indian Lakes	Indian Lakes	Yes	\$ 9,240.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100010	Indian Lake Action #18	Harden critical facilities, to include the Town Hall/Police Station, to reduce or eliminate wind, hail, and flood damage and ensure continuity of emergency services	1500009, 1500010	Cameron	12110208	121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.5	Urban/local, Riverine	Indian Lakes	Indian Lakes	Yes	\$ 27,720.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100011	Laguna Vista Action #1	Drainage improvements Basin "B": Install upgraded drainage system for 80 acre residential area. Current system is inadequate to carry storm water runoff	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 924,000.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
15100012	Laguna Vista Action #10	Drainage Improvements: Harden and reinforce head wall along the Laguna Madre bay off Beach Boulevard	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.41	Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 924,000.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100013	Laguna Vista Action #11	Drainage Improvements: Upgrade 48" drainage pipe located at 1004 Beach Blvd to increase capacity and reduce risk of flood damages	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01	Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 92,400.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100014	Laguna Vista Action #12	Drainage Improvements: Relocate and upgrade existing 36" drainage pipe located at 1026 Beach Blvd to increase capacity and reduce risk of flood damages	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01	Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 92,400.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100015	Laguna Vista Action #19	Harden Town Hall with wind, hail, and flood mitigation measures to reduce damages and ensure continuity of services	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 18,480.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100016	Laguna Vista Action #2	Drainage improvements Basin "C": Install upgraded drainage system for 60 acre residential area. Current system is inadequate to carry storm water runoff.	1500005, 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 924,000.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME. Further discussions with City may combine similar FMEs to city-wide study.

TABLE 15: FLOOD MANAGEMENT EVALUATIONS RECOMMENDED BY RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	RFPG Recommendation (Y/N)	Reason for Recommendation
15100017	Laguna Vista Action #3	Drainage improvements Basin "D": Install upgraded drainage system west side of State Highway 510 for 80 acre residential area. Current system is inadequate to carry storm water runoff.	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	1.87	Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 924,000.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100018	Laguna Vista Action #4	Drainage improvements Basin "E": Install upgraded drainage system off Saunders Street and State Highway 510 that drains acreage south of Fernandez Street and north of Morris Street	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 924,000.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100019	Laguna Vista Action #5	Drainage improvements Basin "F": Install drainage system at the most southwestern part of the Town limits, bounded by State Highway 100 and State Highway 510.	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.18	Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 924,000.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100020	Laguna Vista Action #6	Drainage improvements SH 100: Regrade the existing drainage ditch that parallels State Highway 100 to increase capacity and reduce risk of flooding	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	13.5	Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 369,600.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100021	Laguna Vista Action #7	Drainage improvements: Upgrade the drainage system on the intersection of Broadway and Palo Blanco to increase capacity and reduce risk of flooding	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01	Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 369,600.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100022	Laguna Vista Action #8	Drainage Improvements: Upgrade the drainage system on Holley Beach to increase capacity and reduce risk of flooding	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	3.99	Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 369,600.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME. Further discussions with City may combine similar FMEs to city-wide study.
15100023	Laguna Vista Action #9	Drainage Improvements: Upgrade and harden drainage structure on Town-owned marina to increase capacity and reduce risk of damages	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.51	Urban/local, Riverine	Laguna Vista	Laguna Vista	Yes	\$ 554,400.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME. Further discussions with City may combine similar FMEs to city-wide study.
15100024	Los Fresno's Action #13	Upgrade culverts and install drainage improvements at various locations to increase capacity and reduce risk of flood damages. Purchase trailer mounted water trash pump to reduce or eliminate flooding. Drainage Improvement locations: Drainage Ditch South of Highway 100 causes flooding on East Fifth Street, East Sixth Street, East Seventh Street, East Eighth Street, East Ninth Street and East Tenth Street. South Nogal Street Causes Flooding on West First Street, West Second Street, West Third Street, Valle Alto Street & Bougainvillea Street, Jacqueline Street & North Canal Street Drain Pipe Collapse, Olmo Street from West Eighth Street to West Tenth Street, Holly Lane Drain Under Canal, Pasto Drive at California Road Drain Under Canal, and Resaca Escondido Drain Pipe Collapse. The following Resaca Crossings are Too Low: Henderson Road East Side, Henderson Road West Side, and Whipple Road West Side.	1500005 , 1500006	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study	1.4	Urban/local, Riverine	Los Fresnos	Los Fresnos	Yes	\$ 1,848,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100025	Los Fresnos Action #14	Elevate or acquire and demolish flood-prone structures	1500031, 1500032	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Los Fresnos	Los Fresnos	Yes	\$ 184,800.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
15100026	Los Fresnos Action #31	Deepen drainage area in Resaca Escondido and Falcon Lake to increase storm water retention capacity	1500007 , 1500008	Cameron	12110208	121102080800, 121102080900		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/local, Riverine	Los Fresnos	Los Fresnos	Yes	\$ 184,800.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
15100027	Port Isabel Action #19	Elevate and widen coastal roads as well as evacuation routes to reduce risk of flood damages and maintain emergency access	1500005 , 1500006	Cameron	12110208	121102081000, 121102081000		Flood Mitigation Alternatives Analysis/ Feasibility Study	2.72	Urban/local, Riverine	Port Isabel	Port Isabel	Yes	\$ 554,400.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100028	Port Isabel Action #22	Build breakwater or similar shoreline protection for harbor	1500001 , 1500002	Cameron	12110208	121102081000, 121102081000		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.47	Urban/local, Riverine	Port Isabel	Port Isabel	Yes	\$ 1,108,800.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.

TABLE 15: FLOOD MANAGEMENT EVALUATIONS RECOMMENDED BY RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	RFPG Recommendation (Y/N)	Reason for Recommendation
15100029	Primera Action #2	Construct a large retention/detention pond in the northwest part of town to hold water during heavy rain events	1500007, 1500008, 1500005, 1500006	Cameron	12110208	1211020807000		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1	Urban/local, Riverine	Primera	Primera	Yes	\$ 92,400.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100030	South Padre Island #6	Upgrade undersized culverts throughout the Island to increase capacity and reduce flood risk	1500005, 1500006	Cameron	12110208	1.21102E+11		Flood Mitigation Alternatives Analysis/ Feasibility Study	4.62	Urban/local, Riverine	South Padre Island	South Padre Island	Yes	\$ 1,848,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100031	Dimmit County	Develop Flood risk maps for the county of Dimmit and develop CIP	15000019, 15000020	Dimmit	12110207			Flood Risk Modeling/ Mapping	172.15		Dimmit	Dimmit	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100032	Edwards County	Develop Flood risk maps for the county of Edwards and develop CIP	15000019, 15000020	Edwards	12110207			Flood Risk Modeling/ Mapping	138.8		Edwards	Edwards	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100033	FM 491 and Mile 3	Local Drainage Improvements- County Road 1771	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.81		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 60,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100034	Pump Station H & Sump	Pump Station H & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.31		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 217,500.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100035	Pump Station I & Sump	Pump Station I & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	3.73		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 388,500.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100036	Pump Station J & Sump	Pump Station J & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	6.23		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 310,500.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100037	Pump Station K	Pump Station K	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 165,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100038	Pump Station L	Pump Station L	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.3		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 165,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100039	Lott Rd & Soderquist	Local Drainage Improvements- North of Lott Road and East of Soderquist Rd.	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.27		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 190,500.00	Yes	Evacuation route and access to critical facilities are impacted. Meets TWDB & RFPG criteria for FMEs. Further discussions with City may combine similar FMEs to city-wide study.
15100040	Mile 2 E & Expy 83	Local Drainage Improvements- North of Interstate 2 and West of Mile 2 1/2	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.43		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 215,250.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100041	TX 88 & W Sugar Cane Dr Improvements	Channel Improvements- Ditch 17B2A1, Ditch 17B2A1 Detention West, Local Drainage Improvements (North of W Sugar Cane West of Ditch17B2A1), Ditch 17B2A1 Detention East, and Local Drainage Improvements (North of W Sugar Cane East of Ditch17B2A1)	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	3.1		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 375,900.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100042	Mile 11 N & Mile 6 W Improvements	Channel Improvements- Ditch 17B2A1A, Channel Improvements- Ditch 77,7T1, Local Drainage Improvements- West of Ditch17B2A1A, and Ditch 17B2A1 Detention West	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.74		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 570,300.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100043	Clark Rd & Mile 1 E Improvements	Channel Improvements- Ditch 19,19B,19H,23; Local Drainage Improvements-Los Laureles; Local Detention-Los Laureles; Local Drainage Improvements-Clark road and Mile 1 Road; and Bypass Channel and Sump Area for Pump Station	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	12.3		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 1,526,550.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100044	International & E Mile 5 N Improvements	Channel Improvements just upstream of Ditch 35B; Culvert Improvements; Detention North of Llano Grande Lake Just West of 3 Mile Rd; 2- 130,000 GPM Pumps; Channel Improvements Ditch 34, 34B, 34BExt; Regional Detention; Bypass channel from Ditch 34; and Culvert Improvements-Ditch 34 Passing International Blvd.	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.71		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 1,093,500.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100045	S Alamo and Rancho Blanco	Local Drainage Improvements-Storm Drain and Detention North of Rancho Blanco and east of S. Alamo Road	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.03		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 525,750.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100046	FM 1423 and Main Grove	Local Drainage Improvements- Main Street, North Street	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.12		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 107,100.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100047	FM 1423 and Nolana	Local Drainage Improvements--Storm Drain and Detention South of Earling Road West of Val Verde Street	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.38		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 321,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.

TABLE 15: FLOOD MANAGEMENT EVALUATIONS RECOMMENDED BY RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	RFPG Recommendation (Y/N)	Reason for Recommendation
15100048	N Tower	Local Drainage Improvements-Storm Drain North of Minnesota Road	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.73		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 201,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100049	Dillon and Roosevelt	Local Drainage Improvements-Just North of E Roosevelt Rd	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.68		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 216,600.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100050	Canton and Dillon	Local Drainage Improvements-Along Canton Road and adjacent neighborhoods	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	1.1		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 454,050.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100051	FM 1925 and Mile 4	Local Drainage Improvements-Along Bernal Court	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.16		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 143,550.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100052	Pump Station A & Sump A	Pump Station A & Sump A	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 213,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100053	Pump Station B & Sump B	Pump Station B & Sump B	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study			Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 244,500.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100054	Pumps & Sumps	Remove gate and improve embankment	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study			Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 9,000.00	No	
15100055	Pump Station D	Pump Station D	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	4.67		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 165,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100056	Pump Station E & Sump	Pump Station E & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	3.45		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 124,500.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100057	Pump Station F & Sump	Pump Station F & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	12.4		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 480,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100058	Pump Station G & Sump	Pump Station G & Sump	15000019, 15000020	Hidalgo	12110207			Flood Mitigation Alternatives Analysis/ Feasibility Study	2.71		Hidalgo County Drainage District #1	Hidalgo County Drainage District #1	Yes	\$ 271,500.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100059	City of Sullivan City	Develop Flood risk maps for the city of Sullivan City and develop CIP	15000019, 15000020	Hidalgo	12110207			Flood Risk Modeling/ Mapping	3.6		City of Sullivan City	City of Sullivan City	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100060	Alton MDP - West Mile 5 Road and Louisiana Street Alternative 2	Alternative 2 is designed to remove structures from the 10-year floodplain. Approximately 35 acre-feet of volume is proposed to be excavated. construction consists of 1,940 LF of 36-inch diameter pipe sloped at 0.2% along Louisiana, Kentucky, and Troser Road out falling directly into the retention pond, 3 headwalls and approximately 9 inlets. Additional inlets and smaller pipe may be needed to catch low lying areas that pond between the houses or regrading with swales to take runoff to the street.	15000007, 15000008, 15000005, 15000006	Hidalgo	12110207, 12110208	121102080200, 121102080300		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1	Urban/local, Riverine	City of Alton	City of Alton	Yes	\$ 322,898.40	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100061	Alton MDP - FM 676 South Glasscock Road Alternative 3	Widening of FM 676 with a proposed storm drain system containing 54" reinforced concrete pipe.	15000005, 15000006	Hidalgo	12110207, 12110209	121102080200, 121102080300		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.13	Urban/local, Riverine	City of Alton	City of Alton	Yes	\$ 58,093.20	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100062	Alton MDP - North Inspiration Road and West St. Jude Avenue Alternative 2	Alternative 2, is designed to remove structures from the 25-year floodplain and more frequent storms. This alternative consists of upsizing the storm drain under West St. Jude Avenue. The trunk line will consist of 1,900 LF of a single 7' X 5' reinforced concrete box sloped at 0.5% from the area just west of the neighborhood on W. St. Jude Avenue to the West Main Drain Channel, downstream (north) of the existing 10' X 7' box culvert.	15000005, 15000006	Hidalgo	12110207, 12110210	121102080200, 121102080300		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.16	Urban/local, Riverine	City of Alton	City of Alton	Yes	\$ 422,690.40	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100063	Alton MDP - West Mile 5 and South Glasscock Road Alternative 3	Alternative 3 is simply the buyout and removal of 23 properties on the north side of Buchanan from the 10-year floodplain. Once structures are removed, the vacant land can be excavated and used as a park/regional retention pond.	15000031, 15000032	Hidalgo	12110207, 12110213	121102080200, 121102080300		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.23	Urban/local, Riverine	City of Alton	City of Alton	Yes	\$ 249,480.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100064	Weslaco Stormwater Improvement Plan - Pleasantview Drive and 11th Street	Installation of 3,220 LF of new storm drain system consisting of two - 8' x 4' RCBs along Mile 3 ½.	15000005, 15000006	Hidalgo	12110207, 12110228	121102080100, 121102080300		Preliminary Engineering	0.22	Urban/local, Riverine	City of Weslaco	City of Weslaco	Yes	\$ 819,390.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.

TABLE 15: FLOOD MANAGEMENT EVALUATIONS RECOMMENDED BY RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	RFPG Recommendation (Y/N)	Reason for Recommendation
15100065	Weslaco Stormwater Improvement Plan - Mile 10 N and Mile 5 ½ W	Construction of an 8 acre detention pond, with approximately 4,000 LF of channel widening along the back of the neighborhoods and between the Justice Raul A. Gonzalez Elementary School and Joe Calvillo Jr Career & Technology Education Complex; replacement of existing undersized channel culvert with two – 8’ x 5’ reinforced concrete boxes (RCBs), and adding two – 8’ x 5’ RCBs to connect the existing drainage ditches to the drain channel system on the east.	1500007, 1500008	Hidalgo	12110207, 12110230	121102080100, 121102080300		Preliminary Engineering	0.4	Urban/local, Riverine	City of Weslaco	City of Weslaco	Yes	\$ 666,151.20	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100066	Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83	Replacement of 48 – inch culverts at two roadway crossings with 6’ x 4’ RCBs.	1500005, 1500006	Hidalgo	12110207, 12110231	121102080100, 121102080300		Preliminary Engineering	0.39	Urban/local, Riverine	City of Weslaco	City of Weslaco	Yes	\$ 14,071.20	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100067	Weslaco Stormwater Improvement Plan - Texas Boulevard to Airport Drive, South of Business 83	Construction of two detention ponds, 10 acres near Texas Boulevard and 18th Street and 3 acres south of Dawson Street, a berm, approximately 5,400 LF of channel widening and extension, and installation of an 8’ x 4’ RCB storm drain system near Border Ave. to Bridge Ave.	1500007, 1500008, 1500005, 1500006	Hidalgo	12110207, 12110232	121102080100, 121102080300		Preliminary Engineering	1.34	Urban/local, Riverine	City of Weslaco	City of Weslaco	Yes	\$ 6,597,676.80	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100068	Weslaco Stormwater Improvement Plan - West Weslaco	The project is located just west of Border Avenue, between US 83 and Zelma Street. Construction of three detention ponds, 18 acres east of Vaughn Road and Midway Road, 26 acres near West 6th Street and Milano Road and 60 acres at Harlon Block Sports Complex, approximately 17,000 LF of channel widening connecting the ponds, and installation of approximately 4500 LF of large (8’ x 4’, 8’ x 5’, 8’ x 6’) RCB storm drain system to improve conveyance along the channels to the ponds.	1500007, 1500008, 1500005, 1500006	Hidalgo	12110207, 12110233	121102080100, 121102080300		Preliminary Engineering	2	Urban/local, Riverine	City of Weslaco	City of Weslaco	Yes	\$ 5,595,876.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100069	Weslaco Stormwater Improvement Plan - Westgate Drive and Sugar Cane Drive	Construction of two detention ponds, 11 acres near Clecker-Heald Elementary School and 8 acres behind the commercial properties north of Interstate 2, approximately 4,500 LF of channel widening connecting the two ponds, addition of a new 42-inch reinforced concrete pipe (RCP) culvert east of Border Avenue, and installation of approximately 5,600 LF of an 8’ x 4’ RCB storm drain system along West Paisano Lane and East Ballard Street.	1500007, 1500008, 1500005, 1500006	Hidalgo	12110207, 12110234	121102080100, 121102080300		Preliminary Engineering	1.58	Urban/local, Riverine	City of Weslaco	City of Weslaco	Yes	\$ 1,664,863.20	No	Need more information to determine if it is connected to a Category 2 FIF project.
15100070	Enhance Drainage Systems In Hidalgo	Add Additional Storm Sewer Line From 5Th Street/Azalea To Texano East To Eight Street. Install 24” Cement Pipe To Help Drainage	1500000, 1500000	Hidalgo	12110207, 12110248	121102080100, 121102080300, 130900020311		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.03	Urban/Local, Riverine	Hidalgo	Hidalgo	Yes	\$ 214,500.00	No	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100071	Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & Ware Rd.	Approximately 1 mile of proposed channel improvements. Proposed culverts. Proposed Detention Ponds with pond north of Mile 8.5 Rd. to collect runoff from the west and has an approximate footprint of 12 acres and storage capacity of 60 acre-ft and will outfall south towards the pond south of Mile 8.5 Rd.	1500007, 1500008, 1500005, 1500006	Hidalgo	12110207, 12110279	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.79	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	\$ 2,984,850.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100072	Precinct 4 MDP - Risk Area B at Mile 6 & North Ware Rd.	Regional Detention Facilities with a pond footprint of 25 acres along the Existing HCDD1 West Main Drain. Storm Drain and Local Drainage Improvements. Channel maintenance.	1500007, 1500008, 1500005, 1500006	Hidalgo	12110207, 12110280	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.15	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	\$ 4,076,325.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100073	Precinct 4 MDP - Risk Area C at FM 2812 & FM 493	Channel Improvements (Widening & Regrading) to Existing J-01 Drain with approximately 1.5 miles of proposed improvements. Channel Improvements (Channel Maintenance & Flowline Regrading) to Existing DA-1 Ext. Drain with approximately 0.4 miles of proposed improvements. Proposed detention pond will have an approximate footprint of 9 acres and storage capacity of 90 acre-ft. Grate inlets & proposed storm drain channel maintenance & debris removal.	1500007, 1500008, 1500005, 1500006	Hidalgo	12110207, 12110281	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	3.23	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	\$ 1,183,050.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100074	Precinct 4 MDP - Risk Area D at S. McColl & Canton Rd.	Channel Improvements (Widening & Regrading) to Existing McAllen Lateral & North Main Drain with approximately 2.25 miles of proposed improvements from S McColl St. to State Highway 107. Crossings at W Canton Rd., W Freddy Gonzalez Dr., and W Sprague St. were all evaluated up to the 25-year design storm criteria for upsizing evaluation.	1500005, 1500006	Hidalgo	12110207, 12110282	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	1.4	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	\$ 953,700.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100075	Precinct 4 MDP - Risk Area E at Hwy 107 & Val Verde Rd.	Channel Improvements with approximately 0.3 miles of proposed improvements. Proposed detention pond north of Tex-Mex Rd. and east of S 87th St. has an approximate footprint of 4.25 acres and capacity of 20 acre-ft. Grate Inlets and Proposed Storm Drain 5’x5’ grate inlets spaced along every 500’ of storm drain with a 4’x2’ RCB along S 85th St.	1500007, 1500008, 1500005, 1500006	Hidalgo	12110207, 12110283	121102080400, 121102070100, 121102080200, 121102080200		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	\$ 747,450.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100076	Precinct 4 MDP - Risk Area F at Texas Rd. & Cesar Chavez Rd.	Channel Improvements with approximately 0.6 miles of proposed improvements. Grate Inlets and Proposed Storm Drain with grate inlets in sag spaced along every 500’ tying into a 42” RCP along Cesar Chavez Road starting at just south of Texas Rd to the Curry Drain. Culvert Improvements with connections between the proposed open channels and existing HCDD1 Edinburg Stub will require the installation of 4’x3’ RCBs.	1500005, 1500006	Hidalgo	12110207, 12110284	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.56	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	\$ 1,188,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.

TABLE 15: FLOOD MANAGEMENT EVALUATIONS RECOMMENDED BY RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	RFPG Recommendation (Y/N)	Reason for Recommendation
15100077	Precinct 4 MDP - Risk Area G at Hoehn Rd. & Mile 11 Rd.	Channel Improvements with approximately 0.75 miles of proposed improvements. Proposed Pond north of County Road 3424 and west of County Road 3421 has an approximate footprint of 5 acres and capacity of 35 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets will be located at the southwest corner of Eubanks and County Road 3424 with a connection to a 42" DIA RCP storm drain. Proposed culverts.	1500005 , 1500006	Hidalgo	12110207, 12110285	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.79	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	\$ 909,150.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100078	Precinct 4 MDP - Risk Area I at Sharp Rd. & E Monte Cristo Rd	Inlets and proposed storm drain with Approximately 1,100' of 4'x4' RCB storm drain with curb inlets to be installed along Hendrix Dr. and Gaston Cr. with approximately 1,200' of 6'x4' RCB storm with grate and sag inlets along Uresti Rd. with connection to the HCDD1 J-02 Drain. Proposed installation of grate and sag inlets along Mile 19 Rd. (Phase Two) and proposed installation of grate and sag inlets along Sharp Rd. (Phase Two). Proposed Culverts Improvements (Phase One). Proposed detention pond with 9 acre footprint. Channel maintenance.	1500005 , 1500006	Hidalgo	12110207, 12110286	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.73	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	\$ 899,250.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100079	Precinct 4 MDP - Risk Area J at SH107 & FM 907	Channel Improvements (Widening & Regrading) to Existing HCDD1 "Y" drain with approximately 0.75 miles of proposed channel improvements beginning at Fresno Dr. and ending at E Curry Rd. Proposed Drainage Grate Inlets approximately 3,800' of storm drain to provide local drainage improvements north and west of existing HCDD1 "Y" Drain in two separate systems. Proposed culverts improvements. Proposed detention pond with a 2.7 acre footprint.	1500005 , 1500006	Hidalgo	12110207, 12110287	121102080400, 121102070100, 121102080200, 121102080200		Preliminary Engineering	0.15	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	Yes	\$ 541,200.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100080	Mercedes Project Area 111	Provide channel and culvert improvements for the outlined ditches. (Mercedes Ditch 19, 19A, Anaquitas Drain)		Hidalgo				Flood Mitigation Alternatives Analysis/ Feasibility Study			Hidalgo County Drainage District No. 1	Hidalgo County Drainage District No. 1	Yes	\$ 1,150,500.00	No	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100081	East Mercedes Project Area 112a	Provide channel and culvert improvements for the outlined ditches. (Mercedes Ditch 23 North of IH 2)		Hidalgo				Flood Mitigation Alternatives Analysis/ Feasibility Study			Hidalgo County Drainage District No. 1	Hidalgo County Drainage District No. 1	Yes	\$ 454,050.00	No	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100082	Jim Hogg County	Develop Flood risk maps for the county of Jim Hogg and develop CIP	15000019, 15000020	Jim Hogg	12110207			Flood Risk Modeling/ Mapping	870.56		Jim Hogg County	Jim Hogg County	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100083	Kenedy County	Develop Flood risk maps for the county of Kenedy and develop CIP	15000019, 15000020	Kenedy	12110207			Flood Risk Modeling/ Mapping	1478.25		Kenedy County	Kenedy County	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100084	Fort Clark MUD	Develop Flood risk maps for Fort Clark MUD and develop CIP	15000019, 15000020	Kinney	12110207			Flood Risk Modeling/ Mapping	4.21		Fort Clark MUD	Fort Clark MUD	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100085	Kinney County	Develop Flood risk maps for the county of Kinney and develop CIP	15000019, 15000020	Kinney	12110207			Flood Risk Modeling/ Mapping	751.29		Kinney County	Kinney County	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100086	Risk Area 11 Rancho Escondido	Project includes constructing 10'x2' U-shaped channel from Flores Drive to just south of Microtel Inn Suites, replacing existing culvert under Mazza Drive with 1-8'x4' RCB, and installing curb inlet at cul-de-sac on Nancy Drive.	1500005 , 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.03	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 136,785.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100087	Risk Area 12 Fox Borough Drive	Project includes bypassing flow from inlet at Point Loma Drive and North Point Drive to the detention pond with 1 - 8'x4' RCB and installing additional curb inlets on N. Point Drive and Silver Oak Circle.	1500005 , 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.05	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 177,870.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100088	Risk Area 13 Celle De Los Santos neighborhood. Additional culvert under irrigation canal.	Project includes upgrading existing culvert crossing irrigation canal from 2-6'x4' RCB to 4-6'x4' RCB.	1500005 , 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.03	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 27,225.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100089	Risk Area 15 Trib 3 Detention at Main Street	Project includes constructing 10 acre detention pond (29 ac-ft volume) along East Channel north of Highway 277 and installing flap-gates at flume outfalls on Omar Drive and Jana Drive, to prevent more frequent stormwater from backing up into the neighborhood on the west side of the channel.	1500005 , 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.05	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 124,245.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100090	Risk Area 2 Treasure Hills	Project includes constructing a 4' deep trapezoidal concrete channel with 8' bottom width and 2:1 side slopes, from detention pond outfall to existing culverts.	1500005 , 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.06	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 89,595.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100091	Risk Area 3 Arrow Point Boulevard	Project includes constructing small retaining wall at downstream of flume outfall to force flow towards Stone Way and constructing a 2' wide and 6" deep concrete flume from existing flume outfall to Stone Way.	1500005 , 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.02	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 7,920.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100092	Risk Area 4 Bibb & Misty Willow storm drain	Project includes installing 6'x4' RCB along Misty Willow Drive from N Bibb Avenue to existing channel between N Bibb Avenue and Timber Valley and installing curb inlets on N Bibb Avenue and Misty Willow Drive.	1500005 , 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.02	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 47,520.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100093	Risk Area 5 Debona Drive	Project includes constructing a 5' deep trapezoidal channel approximately 30 feet wide with 3:1 side slopes and a 5' concrete pilot channel, replacing Juarez Street culvert with 8'x4' box culvert, and realigning existing channel to provide additional distance from homes.	1500005 , 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.02	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 53,955.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100094	Risk Area 6 Trib 2 bypass & detention at Eagle Pass High School fields	Project includes bypassing flow from Golfcrest Drive to the detention pond with 1-6'x4', RCB Modifying outfall structure from 2-5'x3' RCB to 1-5'x3' RCB, and Lowering existing baseball field by 3 ft to provide an additional 30 ac-ft of storage.	1500007, 1500008	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.1	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 143,550.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.

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FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	RFPG Recommendation (Y/N)	Reason for Recommendation
15100095	Risk Area 8 Tributary 2 channel widening near Alexander Drive	Project includes constructing a 3' deep trapezoidal channel with a 76' bottom width with 4:1 side slopes from Graves Elementary School to the confluence of existing channels and constructing a 4' deep trapezoidal channel with a 11' bottom width with 4:1 side slopes from confluence of existing channels to existing culvert at Kelson Drive.	1500005, 1500006	Maverick	13080001, 13080002	130800020703, 130800020702		Preliminary Engineering	0.04	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	Yes	\$ 12,045.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
15100096	Maverick County	Develop Flood risk maps for the county of Maverick and develop CIP	15000019, 15000020	Maverick	12110207			Flood Risk Modeling/ Mapping	768.49		Maverick County	Maverick County	Yes	\$ 500,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100097	Starr County	Develop Flood risk maps for the county of Starr and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	1232.38		Starr County	Starr County	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100098	Starr County Drainage District	Develop Flood risk maps for the Starr County Drainage District and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	1232.34		Starr County Drainage District	Starr County Drainage District	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100099	City of La Grulla	Develop Flood risk maps for the city of La Grulla and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	0.94		City of La Grulla	City of La Grulla	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100100	City of Roma	Develop Flood risk maps for the city of Roma and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	5.98		City of Roma	City of Roma	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100101	City of Escobares	Develop Flood risk maps for the city of Escobares and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	2.73		City of Escobares	City of Escobares	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100102	City of Rio Grande City	Develop Flood risk maps for the city of Rio Grande City and develop CIP	15000019, 15000020	Starr	12110207			Flood Risk Modeling/ Mapping	11.38		City of Rio Grande City	City of Rio Grande City	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
15100103	Rgc Public Works, Escobares City, And Starr Public Works Roadway Improvements	Improve Roadways, By Widening And Raising, And Create Drainage Culverts Or Bridges. (Morenos Creek And Garceno Creek)(Kelsey Creek, Rio Grande City)	1500005, 1500006	Starr	12110207, 13090001, 12110207	121102070100, 130900011301, 130900011302, 130900011304, 130900011202, 130900011203, 130900011204, 130900011401, 130900011402, 130800031007, 130800031011, 130900011102, 130900011103, 130900011108, 130900011110, 130900011403, 130900011501, 130900011502, 130900011601, 130900011603, 130900011604, 130900011605, 130900011606, 130900011607, 130900011701, 130900011702, 130900011703, 130900011704, 130900011705, 130900011706, 130900011107, 130900011109, 130900011112		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/Local, Riverine	Starr County	Starr County	Yes	\$ 528,000.00	Yes	Meets TWDB & RFPG criteria for FMEs
15100104	City of Del Rio	Develop Flood risk maps for the city of Del Rio and develop CIP	15000019, 15000020	Val Verde	12110207			Flood Risk Modeling/ Mapping	20.44		City of Del Rio	City of Del Rio	Yes	\$ 250,000.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
15100105	City of Del Rio Project 1	Calaveras Creek Railroad Avenue Road/Culvert Improvement	1500005, 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.02	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 32,670.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME. Projects appear to come from a Master Drainage Study.
15100106	City of Del Rio Project 10	San Felipe Creek W. 10th St. Storm sewer	1500005, 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 187,440.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
15100107	City of Del Rio Project 11	Cinegas Creek Wildcat Drive Road/Culvert Improvement	1500005, 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.16	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 30,030.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
15100108	City of Del Rio Project 12	Cantu Branch Kings Way - Site 1 Road/Culvert Improvement	1500005, 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 49,335.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
15100109	City of Del Rio Project 13	Cantu Branch Margaret Lane Road/Culvert Improvement	1500005, 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 19,800.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME

TABLE 15: FLOOD MANAGEMENT EVALUATIONS RECOMMENDED BY RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	RFPG Recommendation (Y/N)	Reason for Recommendation
151000110	City of Del Rio Project 14	Cantu Branch Amistad Blvd Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 37,290.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000111	City of Del Rio Project 15	Cantu Branch Kings Way - Site 2 Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 47,685.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000112	City of Del Rio Project 16	Cantu Branch Kings Way - Site 3 Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 32,010.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000113	City of Del Rio Project 17	Cantu Branch Amistad - Site 2a Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 73,920.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000114	City of Del Rio Project 18	Cantu Branch Amistad - Site 2b Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 37,290.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000115	City of Del Rio Project 19	Cantu Branch Kings Way/Amistad Blvd Storm sewer Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.61	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 55,440.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000116	City of Del Rio Project 2	Calaveras Creek Plaza / W. Viesca St. Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.1	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 23,760.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000117	City of Del Rio Project 3	Calaveras Creek Bowie Street Road/Culvert Improvement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.18	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 20,460.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000118	City of Del Rio Project 4	Calaveras Creek Vitela St Off Channel Detention	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.02	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 56,925.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000119	City of Del Rio Project 5	San Felipe Creek SFWF A Regional Detention	1500007, 1500008	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 520,740.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000120	City of Del Rio Project 6	San Felipe Creek RSWF B Regional Detention	1500007, 1500008	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study		Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 3,054,810.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME

TABLE 15: FLOOD MANAGEMENT EVALUATIONS RECOMMENDED BY RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watershed Name	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	RFPG Recommendation (Y/N)	Reason for Recommendation
151000121	City of Del Rio Project 7	San Felipe Creek Johnson Street Bridge Replacement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 68,310.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000122	City of Del Rio Project 8	San Felipe Creek Canal Street Bridge Replacement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	\$ 164,010.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000123	City of Del Rio Project 9	San Felipe Creek Academy Street Bridge Replacement	1500005 , 1500006	Val Verde	13080001	130403020405, 130800010203, 130800010204, 130800010205, 130800010207, 130800010208, 130800010303, 130800010304, 130800010305, 130800010306, 130800010404, 130800010405, 130800010406, 130800010407		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.01	Urban/Local, Riverine	City of Del Rio	City of Del Rio	Yes	FALSE	No	Need more information to determine if it meets TWDB and RFPG criteria for FME
151000124	Val Verde County	Develop Flood risk maps for the county of Val Verde and develop CIP	15000019, 15000020	Val Verde	12110207			Flood Risk Modeling/ Mapping	349.71		Val Verde County	Val Verde	Yes	\$ 500,000.00	Yes	Meets TWDB & RFPG criteria for FMEs
151000125	Webb County Drainage District #1	Develop Flood risk maps for the Webb County Drainage District #1 and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	9.12		Webb County Drainage District #1	Webb	Yes	\$ 1,000,000.00	Yes	Meets TWDB & RFPG criteria for FMEs
151000126	City of Laredo	Develop Flood risk maps for the city of Laredo and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	107.79		City of Laredo	City of Laredo	Yes	\$ 1,000,000.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME. Not a high priority gap and Laredo may have a recent Master Drainage plan.
151000127	City of Rio Bravo	Develop Flood risk maps for the city of Rio Bravo and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	0.66		City of Rio Bravo	City of Rio Bravo	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
151000128	City of El Cenizo	Develop Flood risk maps for the city of El Cenizo and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	0.53		City of El Cenizo	City of El Cenizo	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
151000129	City of Laredo Project 4	Zacate Creek Flood Plain Study to improve the 1980 flood plain map for Zacate Creek	15000019, 15000020	Webb	13080002			Flood Mitigation Alternatives Analysis/ Feasibility Study			City of Laredo	City of Laredo	Yes	\$ 150,000.00	No	Need more information to determine if it meets TWDB and RFPG criteria for FME. Looks like it came from a Master Drainage Plan.
151000130	City of Laredo Project 6	Vidaurri Avenue Roadway Drainage Improvements to prevent future drainage in the area. Street improvements from Scott Street to Jefferson Street.	1500005 , 1500006	Webb	13080002	130800022405, 130800022610, 130800022611, 130800022612, 130800022801, 130800022802, 130800022804, 130800022805, 130800022809, 130800030208, 130800022806		Flood Mitigation Alternatives Analysis/ Feasibility Study	0.7	Urban/Local, Riverine	City of Laredo	City of Laredo	Yes	\$ 330,000.00	Yes	Project needs further study to determine if it can meet TWDB & RFPG criteria for an FMP in the future. Potential to impact access routes to critical infrastructure.
151000131	Webb County	Develop Flood risk maps for the county of Webb and develop CIP	15000019, 15000020	Webb	12110207			Flood Risk Modeling/ Mapping	1654.59		Webb County	Webb County	Yes	\$ 1,000,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
151000132	Zapata County	Develop Flood risk maps for the county of Zapata and develop CIP	15000019, 15000020	Zapata	12110207			Flood Risk Modeling/ Mapping	150.03		Zapata County	Zapata County	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.
151000133	San Ygnacio MUD	Develop Flood risk maps for San Ygnacio MUD and develop CIP	15000019, 15000020	Zapata	12110207			Flood Risk Modeling/ Mapping			San Ygnacio MUD	San Ygnacio MUD	Yes	\$ 250,000.00	Yes	Meets TWDB & RFPG criteria for FMEs. Identified as a mapping gap.

Appendix B

Table 16:

Potentially Feasible Flood Mitigation Projects Identified by RFPG

TABLE 16: POTENTIALLY FEASIBLE FLOOD MITIGATION PROJECTS RECOMMENDED BY RFPG

Table 16: Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watershed Name	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Reoccurring Noncapital Cost (\$)	Potential Funding Sources and Amount	Cost/Structure removed	Percent Nature-based Solution (By cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	RFPG Recommendation (Y/N)	Reason for Recommendation
153000001	Alton MDP - West Mile 5 Road and Louisiana Street Alternative 2	Alternative 2 is designed to remove structures from the 10-year floodplain. Approximately 35 acre-feet of volume is proposed to be excavated. construction consists of 1,940 LF of 36-inch diameter pipe sloped at 0.2% along Louisiana, Kentucky, and Trosper Road out falling directly into the retention pond, 3 headwalls and approximately 9 inlets. Additional inlets and smaller pipe may be needed to catch low lying areas that pond between the houses or regrading with swales to take runoff to the street.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110208	15000075,15000146	Infrastructure	3.87	Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 2,153,000.00	\$ -			0	Yes	0	No	0	0	No	BCR is less than 1	
153000002	Alton MDP - FM 676 South Glasscock Road Alternative 3	Widening of FM 676 with a proposed storm drain system containing 54" reinforced concrete pipe.		Hidalgo	12110207, 12110209		Infrastructure		Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 387,000.00	\$ -								1.99	No	Need more information to determine no negative effects and BCR	
153000003	Alton MDP - North Inspiration Road and West St. Jude Avenue Alternative 2	Alternative 2, is designed to remove structures from the 25-year floodplain and more frequent storms. This alternative consists of upsizing the storm drain under West St Jude Avenue. The trunk line will consist of 1,900 LF of a single 7' X 5' reinforced concrete box sloped at 0.5% from the area just west of the neighborhood on W. St. Jude Avenue to the West Main Drain Channel, downstream (north) of the existing 10' X 7' box culvert.	15000005, 15000006	Hidalgo	12110207, 12110210	15000075	Infrastructure	0.16	Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 2,818,000.00	\$ -			0	Yes	0	No	0	0.1	No	BCR is less than 3	
153000004	Alton MDP - North Stewart Boulevard Alternative 2	Alternative 2 is designed to remove structures from the 10-year floodplain and more frequent storms. This alternative consists of the construction of 6,600 LF of a single 8' X 4' reinforced concrete box sloped at 0.02% from the Val Verde Acres Subdivision to Josefa Garcia Park.		Hidalgo	12110207, 12110211		Infrastructure		Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 8,339,000.00	\$ -								0.06		Need more information to determine no negative effects and BCR	
153000005	Alton MDP - South Stewart Boulevard Alternative 2A	740 LF 6' X 4' Reinforced Concrete Box Culvert starting just south of Orange Dr. and Stewart Rd. 70 acres of land acquisition for regional retention. 3.1 Acres of land for channel conveyance	15000005, 15000006	Hidalgo	12110207, 12110212	15000075	Infrastructure	0.13	Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 6,296,000.00	\$ -			0	Yes	0	No	0		No	Need more information to determine no negative effects and BCR	
153000006	Alton MDP - West Mile 5 and South Glasscock Road Alternative 3	Alternative 3 is simply the buyout and removal of 23 properties on the north side of Buchanan from the 10-year floodplain. Once structures are removed, the vacant land can be excavated and used as a park/regional retention pond.	15000005, 15000006	Hidalgo	12110207, 12110213	15000075	Infrastructure	0.23	Urban/local, Riverine	City of Alton	City of Alton	yes	\$ 1,663,000.00	\$ -			0	Yes	0	No	0	0.08	No	BCR is less than 6	
153000007	Weslaco Stormwater Improvement Plan -South Texas Boulevard and East 18th Street	Construction of a 5 acre detention pond along Texas Boulevard, with approximately 1,400 LF of channel widening along the back of the neighborhood, the replacement of a 30 - inch culvert crossing the irrigation canal with an 8' x 4' RCB, and replacement of a 24 - inch culvert crossing FM 88 with an 8' x 4' RCB.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110214	15000119	Infrastructure	0.41	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 1,586,000.00	\$ -			0	Yes	0	No	0		No	Solutions are not for 1% ACE LOS	
153000008	Downtown Pharr Mitigation Project	Construct 5500-linear feet of channel improvements on the Pharr South Drain downstream of Sam Houston Street to just north of Inspiration Street. Install 7280-linear feet of reinforced concrete box culvert improvements toward the Pharr South Drain from Egly and North Hibiscus Street. Install curb inlet capture systems approximately every 500-feet to capture local drainage across subdivisions and repave roadways. Construct two (2) Regional Detention Facilities. Facility 1 at North Camelia Street (Max Depth = 5.5-feet) will require 5.5 acre-feet of excavation and is owned by the City of Pharr. Facility 2 at Audrey Street (max Depth = 9.5-feet) will require 42 acre-feet of excavation and will require acquisition.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110217	15000119,15000146	Infrastructure, Regional Detention	1.22	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 45,241,000.00	\$ -			0	Yes	0	No	0	0.49	No	BCR is less than 1	
153000009	North Pharr Backwater Relief Project	Construct 3400-linear feet of channel improvements on the ditch running from south to north along North Fir Street and 2800-linear feet of channel improvements on the Pharr-McAllen Lateral Ditch up to North I road. Install culvert improvements, 2-8' X 4' RCB, alongside the ditch running parallel to Fir Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Extend existing culverts at crossings. Repave W. Sioux Road.	15000005, 15000006	Hidalgo	12110207, 12110220	15000146	Infrastructure	0.51	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 1,628,000.00	\$ -			0	Yes	0	No	0	3.21	No	It is part of North Pharr Mitigation Project	
153000010	North Pharr Culvert Improvements	Install culvert improvements, 2-10X10 RCB, alongside the ditch running parallel to N. Erika Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Repave W. Sioux Road.	15000005, 15000006	Hidalgo	12110207, 12110221	15000146	Infrastructure	0.57	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 869,000.00	\$ -			0	Yes	0	No	0	4.24	No	It is part of North Pharr Mitigation Project	
153000011	North Pharr Mitigation Project	Construct 3400-linear feet of channel improvements on the ditch running from south to north along North Fir Street and 2800-linear feet of channel improvements on the Pharr-McAllen Lateral Ditch up to North I road. Install culvert improvements, 2 - 8' X 4' RCB, alongside the ditch running parallel to Fir Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Construct an inline Regional Detention Facility (RDF) along the Pharr-McAllen drain within the City Limits of San Juan. The pond will require a footprint of 35-acres.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110222	15000146	Infrastructure	0.72	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 8,195,000.00	\$ -			0	No	0	No	0	6.49	Yes	It complies with TWDB criteria for FMPs	
153000012	Pharr - San Juan Regional Detention Facility	Construct an inline Regional Detention Facility (RDF) along the Pharr-McAllen drain within the City Limits of San Juan. The pond will require a footprint of 35 acres, 300 acre-feet of storage volume, have a maximum depth of approximately of 14 feet, and require some property acquisition.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110224	15000119	Regional Detention	2.61	Urban/local, Riverine	City of Pharr	City of Pharr	yes	\$ 5,587,000.00	\$ -	\$ 12,668.93		0	No	0	No	0	1.31	Yes	It complies with TWDB criteria for FMPs	
153000013	Weslaco Stormwater Improvement Plan - Pleasantview Drive and 11th Street	Installation of 3,220 LF of new storm drain system consisting of two - 8' x 4' RCBs along Mile 3 1/2.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110228	15000119,15000146	Infrastructure	0.86	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 5,463,000.00	\$ -			0	Yes	0	No	0	8.72	No	It is part of North Pharr Mitigation Project	
153000014	Weslaco Stormwater Improvement Plan - Los Torritos Street and North Kansas Avenue	Construction of a 30 acre pond at Mayor Pablo Peña Park, replacement of the existing 48-inch and 60-inch storm drain system with 2 - 8' x 6' RCBs along Plaza Street and Agostadero Street, approximately 1,500 LF of channel widening along the length of the pond, and the addition of a new storm drain system consisting of three - 8' x 6' RCBs along Los Torritos Street to near Texas Boulevard.	15000005, 15000006	Hidalgo	12110207, 12110229	15000119,15000146	Infrastructure	1.15	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 24,112,000.00	\$ -			0	Yes	0	No	0		No	Solutions are not for 1% ACE LOS	
153000015	Weslaco Stormwater Improvement Plan - Mile 10 N and Mile 5 1/2 W	Construction of an 8 acre detention pond, with approximately 4,000 LF of channel widening along the back of the neighborhoods and between the Justice Raul A. Gonzalez Elementary School and Joe Calvillo Jr Career & Technology Education Complex; replacement of existing undersized channel culvert with two - 8' x 5' reinforced concrete boxes (RCBs), and adding two - 8' x 5' RCBs to connect the existing drainage ditches to the drain channel system on the east.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110230	15000146	Infrastructure	1.21	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 4,441,000.00	\$ -			0	Yes	0	No	0		No	Solutions are not for 1% ACE LOS	
153000016	Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83	Replacement of 48 - inch culverts at two roadway crossings with 6' x 4' RCBs.	15000005, 15000006	Hidalgo	12110207, 12110231	15000119,15000146	Infrastructure	0.16	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 94,000.00	\$ -			0	Yes	0	No	0		No	Solutions are not for 1% ACE LOS	
153000017	Weslaco Stormwater Improvement Plan - Texas Boulevard to Airport Drive, South of Business 83	Construction of two detention ponds, 10 acres near Texas Boulevard and 18th Street and 3 acres south of Dawson Street, a berm, approximately 5,400 LF of channel widening and extension, and installation of an 8' x 4' RCB storm drain system near Border Ave. to Bridge Ave.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110232	15000119,15000146	Infrastructure	2.45	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 43,985,000.00	\$ -			0	Yes	0	No	0		No	Solutions are not for 1% ACE LOS	

TABLE 16: POTENTIALLY FEASIBLE FLOOD MITIGATION PROJECTS RECOMMENDED BY RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watershed Name	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Recurring Noncapital Cost (\$)	Potential Funding Sources and Amount	Cost/Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	RFPG Recommendation (Y/N)	Reason for Recommendation
15300018	Weslaco Stormwater Improvement Plan - West Weslaco	The project is located just west of Border Avenue, between US 83 and Zelma Street. Construction of three detention ponds, 18 acres east of Vaughn Road and Midway Road, 26 acres near West 6th Street and Milano Road and 60 acres at Harlon Block Sports Complex, approximately 17,000 LF of channel widening connecting the ponds, and installation of approximately 4500 LF of large (8' x 4', 8' x 5', 8' x 6') RCB storm drain system to improve conveyance along the channels to the ponds.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110233	15000119,15000146	Infrastructure	2.25	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 37,306,000.00	\$ -			0	Yes	0	No	0		No	Solutions are not for 1% ACE LOS	
15300019	Weslaco Stormwater Improvement Plan - Westgate Drive and Sugar Cane Drive	Construction of two detention ponds, 11 acres near Clecker-Heald Elementary School and 8 acres behind the commercial properties north of Interstate 2, approximately 4,500 LF of channel widening connecting the two ponds, addition of a new 42-inch reinforced concrete pipe (RCP) culvert east of Border Avenue, and installation of approximately 5,600 LF of an 8' x 4' RCB storm drain system along West Paisano Lane and East Ballard Street.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110234	15000146	Infrastructure	1.98	Urban/local, Riverine	City of Weslaco	City of Weslaco	yes	\$ 11,099,000.00	\$ -			0	Yes	0	No	0		No	Solutions are not for 1% ACE LOS	
15300020	Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & Ware Rd.	Approximately 1 mile of proposed channel improvements. Proposed culverts. Proposed Detention Ponds with pond north of Mile 8.5 Rd. to collect runoff from the west and has an approximate footprint of 12 acres and storage capacity of 60 acre-ft and will outfall south towards the pond south of Mile 8.5 Rd.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110279	15000075	Infrastructure	0.79	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 19,899,000.00	\$ -			0	Yes	0	No	0	1.7	No	Need more information to determine no negative effects and BCR LOS	
15300021	Precinct 4 MDP - Risk Area B at Mile 6 & North Ware Rd.	Regional Detention Facilities with a pond footprint of 25 acres along the Existing HCDD1 West Main Drain. Storm Drain and Local Drainage Improvements. Channel maintenance.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110280	15000075,15000146	Infrastructure	2.57	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 27,176,000.00	\$ -			0	Yes	0	No	0	1.3	No	Need more information to determine no negative effects and BCR LOS	
15300022	Precinct 4 MDP - Risk Area C at FM 2812 & FM 493	Channel Improvements (Widening & Regrading) to Existing J-01 Drain with approximately 1.5 miles of proposed improvements. Channel Improvements (Channel Maintenance & Flowline Regrading) to Existing DA-1 Ext. Drain with approximately 0.4 miles of proposed improvements. Proposed detention pond will have an approximate footprint of 9 acres and storage capacity of 90 acre-ft. Gate inlets & proposed storm drain channel maintenance & debris removal.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110281	15000096,15000146	Infrastructure	16.08	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 7,887,000.00	\$ -			0	Yes	0	No	0	0.4	No	Need more information to determine no negative effects and BCR LOS	
15300023	Precinct 4 MDP - Risk Area D at S. McColl & Canton Rd.	Channel Improvements (Widening & Regrading) to Existing McAllen Lateral & North Main Drain with approximately 2.25 miles of proposed improvements from S McColl St. to State Highway 107. Crossings at W Canton Rd., W Freddy Gonzalez Dr., and W Sprague St. were all evaluated up to the 25-year design storm criteria for up sizing evaluation.	15000005, 15000006	Hidalgo	12110207, 12110282	15000146	Infrastructure	1.40	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 6,358,000.00	\$ -			0	Yes	0	No	0	1.4	No	Need more information to determine no negative effects and BCR LOS	
15300024	Precinct 4 MDP - Risk Area E at Hwy 107 & Val Verde Rd.	Channel Improvements with approximately 0.3 miles of proposed improvements. Proposed detention pond north of Tex-Mex Rd. and east of S 87th St. has an approximate footprint of 4.25 acres and capacity of 20 acre-ft. Gate inlets and Proposed Storm Drain 5'x5' gate inlets spaced along every 500' of storm drain with a 4'x2' RCB along S 85th St.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110283	15000146	Infrastructure	0.09	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 4,983,000.00	\$ -			0	Yes	0	No	0	1.3	No	Need more information to determine no negative effects and BCR LOS	
15300025	Precinct 4 MDP - Risk Area F at Texas Rd. & Cesar Chavez Rd.	Channel Improvements with approximately 0.6 miles of proposed improvements. Gate Inlets and Proposed Storm Drain with gate inlets in sag spaced along every 500' tying into a 42" RCP along Cesar Chavez Road starting at just south of Texas Rd to the Curry Drain. Culvert Improvements with connections between the proposed open channels and existing HCDD1 Edinburg Stub will require the installation of 4'x3' RCBs.	15000005, 15000006	Hidalgo	12110207, 12110284	15000146	Infrastructure	0.56	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 7,920,000.00	\$ -			0	Yes	0	No	0	2.45	No	Need more information to determine no negative effects and BCR LOS	
15300026	Precinct 4 MDP - Risk Area G at Hoehn Rd. & Mile 11 Rd.	Channel Improvements with approximately 0.75 miles of proposed improvements. Proposed Pond north of County Road 3424 and west of County Road 3421 has an approximate footprint of 5 acres and capacity of 35 acre-ft. Gate Inlets and Proposed Storm Drain 5'x5' gate inlets will be located at the southwest corner of Eubanks and County Road 3424 with a connection to a 42" DIA RCP storm drain. Proposed culverts.	15000005, 15000006, 15000007, 15000008	Hidalgo	12110207, 12110285	15000075	Infrastructure	0.79	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 6,061,000.00	\$ -			0	Yes	0	No	0	0.5	No	Need more information to determine no negative effects and BCR LOS	
15300027	Precinct 4 MDP - Risk Area I at Sharp Rd. & E Monte Cristo Rd.	Inlets and proposed storm drain with Approximately 1,100' of 4'x4' RCB storm drain with curb inlets to be installed along Hendrix Dr. and Gaston Cr. with approximately 1,200' of 6'x4' RCB storm with grate and sag inlets along Uresti Rd. with connection to the HCDD1 J-02 Drain. Proposed installation of grate and sag inlets along Mile 19 Rd. (Phase Two) and proposed installation of grate and sag inlets along Sharp Rd. (Phase Two). Proposed Culverts Improvements (Phase One). Proposed detention pond with 9 acre footprint. Channel maintenance.	15000005, 15000006	Hidalgo	12110207, 12110286	15000096	Infrastructure	0.73	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 5,995,000.00	\$ -			0	Yes	0	No	0	0.63	No	Need more information to determine no negative effects and BCR LOS	
15300028	Precinct 4 MDP - Risk Area J at SH107 & FM 907	Channel Improvements (Widening & Regrading) to Existing HCDD1 "Y" drain with approximately 0.75 miles of proposed channel improvements beginning at Fresno Dr. and ending at E Curry Rd. Proposed Drainage Gate Inlets approximately 3,800' of storm drain to provide local drainage improvements north and west of existing HCDD1 "Y" Drain in two separate systems. Proposed culverts improvements. Proposed detention pond with a 2.7 acre footprint.	15000005, 15000006	Hidalgo	12110207, 12110287	15000146	Infrastructure	0.15	Urban/local, Riverine	Hidalgo County Precinct 4	Hidalgo County Precinct 4	yes	\$ 3,608,000.00	\$ -			0	Yes	0	No	0	1.07	No	Need more information to determine no negative effects and BCR LOS	
15300029	Risk Area 11 Rancho Escondido	Project includes constructing 10'x2' U-shaped channel from Flores Drive to just south of Microtel Inn Suites, replacing existing culvert under Maza Drive with 1-8'x4 RCB, and installing curb inlet at cul-de-sac on Nancy Drive.	15000005, 15000006, 15000007, 15000008	Maverick	13080001, 13080002	15000150	Infrastructure	0.05	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 912,000.00	\$ -			0	Yes	0	No	0	0.31	No	Need more information to determine no negative effects and BCR LOS	
15300030	Risk Area 12 Fox Borough Drive	Project includes bypassing flow from inlet at PointLoma Drive and North Point Drive to the detention pond with 1 - 8'x4' RCB and installing additional curb inlets on N. Point Drive and Silver Oak Circle.	15000005, 15000006, 15000007, 15000008	Maverick	13080001, 13080002	15000150	Infrastructure	0.04	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 1,186,000.00	\$ -			0	Yes	0	No	0	0	No	Need more information to determine no negative effects and BCR LOS	
15300031	Risk Area 13 Celle De Los Santos neighborhood. Additional culvert under irrigation canal.	Project includes upgrading existing culvert crossing irrigation canal from 2-6'x4' RCB to 4-6'x4' RCB.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.13	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 182,000.00	\$ -			0	Yes	0	No	0	0.24	No	Need more information to determine no negative effects and BCR LOS	
15300032	Risk Area 15 Trib 3 Detention at Main Street	Project includes constructing 10 acre detention pond (29 ac-ft volume) along East Channel north of Highway 277 and installing flap-gates at flume outfalls on Omar Drive and Jana Drive, to prevent more frequent stormwater from backing up into the neighborhood on the west side of the channel.	15000005, 15000006, 15000007, 15000008	Maverick	13080001, 13080002	15000150	Infrastructure	1.24	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 828,000.00	\$ -			0	Yes	0	No	0	1.62	No	Need more information to determine no negative effects and BCR LOS	
15300033	Risk Area 2 Treasure Hills	Project includes constructing a 4' deep trapezoidal concrete channel with 8' bottom width and 2:1 side slopes, from detention pond outfall to existing culverts.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	1.07	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 597,000.00	\$ -			0	Yes	0	No	0	0.41	No	Need more information to determine no negative effects and BCR LOS	
15300034	Risk Area 3 Arrow Point Boulevard	Project includes constructing small retaining wall at downstream of flume outfall to force flow towards Stone Way and constructing a 2' wide and 6" deep concrete flume from existing flume outfall to Stone Way.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.59	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 53,000.00	\$ -			0	Yes	0	No	0	0.3	No	Need more information to determine no negative effects and BCR LOS	
15300035	Risk Area 4 Bibb & Misty Willow storm drain	Project includes installing 6'x4' RCB along Misty Willow Drive from N Bibb Avenue to existing channel between N Bibb Avenue and Timber Valley and installing curb inlets on N Bibb Avenue and Misty Willow Drive.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.06	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 317,000.00	\$ -			0	Yes	0	No	0	0.63	No	Need more information to determine no negative effects and BCR LOS	

TABLE 16: POTENTIALLY FEASIBLE FLOOD MITIGATION PROJECTS RECOMMENDED BY RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watershed Name	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Reoccurring Noncapital Cost (\$)	Potential Funding Sources and Amount	Cost/Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	RFPG Recommendation (Y/N)	Reason for Recommendation
153000036	Risk Area 5 Debona Drive	Project includes constructing a 5' deep trapezoidal channel approximately 30 feet wide with 3:1 side slopes and a 5' concrete pilot channel, replacing Juarez Street culvert with 8'x4' box culvert, and realigning existing channel to provide additional distance from homes.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.10	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 360,000.00	\$ -			0	Yes	0	No	0	0.49	No	Need more information to determine no negative effects and BCR LOS	
153000037	Risk Area 6 Trib 2 bypass & detention at Eagle Pass High School fields	Project includes bypassing flow from Golfcrest Drive to the detention pond with 1-6'x4', RCB Modifying outfall structure from 2-5'x3' RCB to 1-5'x3' RCB, and Lowering existing baseball field by 3 ft to provide an additional 30 ac-ft of storage.	15000005, 15000006, 15000007, 15000008	Maverick	13080001, 13080002	15000150	Infrastructure	0.10	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 957,000.00	\$ -			0	Yes	0	No	0		No	Need more information to determine no negative effects and BCR LOS	
153000038	Risk Area 8 Tributary 2 channel widening near Alexander Drive	Project includes constructing a 3' deep trapezoidal channel with a 76' bottom width with 4:1 side slopes from Graves Elementary School to the confluence of existing channels and constructing a 4' deep trapezoidal channel with a 11' bottom width with 4:1 side slopes from confluence of existing channels to existing culvert at Kelso Drive.	15000005, 15000006	Maverick	13080001, 13080002	15000150	Infrastructure	0.60	Urban/local, Riverine	City of Eagle Pass	City of Eagle Pass	yes	\$ 80,000.00	\$ -			0	Yes	0	No	0		No	Need more information to determine no negative effects and BCR LOS	

Appendix B

Table 17:

Potentially Feasible Flood Management Strategies Identified by RFPG

TABLE 17: POTENTIALLY FEASIBLE FLOOD MANAGEMENT STRATEGIES RECOMMENDED BY RFPG

Table 17: Potentially Feasible Flood Management Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Recurring Noncapital Cost (\$)	Potential Funding Sources and Amount	Cost/Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
15200001	Bayview Action #19	Upgrade the Town's website to include local information on hazards, risks, mitigation, protective actions, and applicable ordinances	15,000009, 15000010, 15000013, 15000014, 15000015, 15000016	Cameron	12110208			Flood Measurement and Warning	0	Urban	Bayview	Bayview	yes	\$ 10,000	\$ 1,000	HMGP; Local funding	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200002	Bayview Action #7	Approve and Adopt FEMA Flood Insurance Rate Maps	15000019, 15000020	Cameron	12110208			Regulatory and Guidance	0	Urban	Bayview	Bayview	yes	\$ 1,000	\$ 1,000	local Funding	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200003	Bayview Action #8	Develop cooperative agreement with state and county to address flood risk to roadways leading in and out of town – outside of jurisdictional boundaries	15000005, 15000006	Cameron	12110208			Regulatory and Guidance	0	Urban	Bayview	Bayview	yes	\$ 1,000	\$ 1,000	local Funding	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200004	Bayview Action #9	Participate in the National Flood Insurance Program	15000023, 15000024	Cameron	12110208			Regulatory and Guidance	0	Urban	Bayview	Bayview	yes	\$ 1,000	\$ 1,000	local Funding	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200005	Indian Lake Action #2	Educate property owners about residential mitigation measures for all natural hazards such as the need to elevate structures, implementing residential mitigation measures, install retaining walls, and avoid building in high hazard areas	15000037, 15000038	Cameron	12110208			Education and Outreach	0	Urban	Bayview	Bayview	yes	\$ 1,000	\$ 1,000	General Fund; HMGP	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200006	Brownsville PUB Action #8	Develop program to annually remove buildup of silt in area Resacas that become cutoff from the river and contribute to flooding during severe flood or hurricane event	15000005, 15000006	Cameron	12110208			Regulatory and Guidance	0	Urban	Brownsville	Brownsville	yes	\$ 20,000	\$ 1,000	grants	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200007	City of Brownsville Action #2	Join the Community Rating System program to reduce risk and flood insurance premiums to residents	15000027, 15000028	Cameron	12110208			Regulatory and Guidance	0	Urban	Brownsville	Brownsville	yes	\$ 100,000	\$ 1,000	Local Revenue, Storm water fee	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200008	Indian Lake Action #11	Adopt revised floodplain ordinance to include model ordinance language and higher NFIP standards such as freeboard	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Indian Lakes	Indian Lakes	yes	\$ 1,000	\$ 1,000	General Fund; HMGP	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200009	Indian Lake Action #9	Prepare and advertise local evacuation plan and procedures	15000013, 15000014	Cameron	12110208			Education and Outreach	0	Urban	Indian Lakes	Indian Lakes	yes	\$ 1,000	\$ 1,000	General Fund; HMGP; FEMA AFG	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200010	Port Isabel Action #10	Prepare local evacuation plan	15000013, 15000014	Cameron	12110208			Education and Outreach	0	Urban	Port Isabel	Port Isabel	yes	\$ 1,000	\$ 1,000	HMGP; General Fund; AFG	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200011	Port Isabel Action #11	Update floodplain management ordinances to include higher standards required to join the CRS program; Join the CRS program upon adoption of ordinance	15000025, 15000026, 15000027, 15000038	Cameron	12110208			Regulatory and Guidance	0	Urban	Port Isabel	Port Isabel	yes	\$ 1,000	\$ 1,000	HMGP; General Funds	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200012	Port Isabel Action #12	Adopt NFIP model ordinance with higher floodplain standards	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Port Isabel	Port Isabel	yes	\$ 1,000	\$ 1,000	HMGP; General Funds	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200013	Port Isabel Action #21	Develop a plan to use the internet and social media to warn citizens of disasters and extreme weather on a regular basis as well as how to prepare for such events and mitigate damages	15000013, 15000014	Cameron	12110208			Flood Measurement and Warning	0	Urban	Port Isabel	Port Isabel	yes	\$ 1,000	\$ 1,000	HMGP; General Funds	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200014	Port Isabel Action #25	Develop an early warning system for residents to notify of natural disasters	15000009, 15000010	Cameron	12110208			Flood Measurement and Warning	0	Urban	Port Isabel	Port Isabel	yes	\$ 100,000	\$ 1,000	HMGP; General Funds	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200015	Primera Action #1	Amend subdivision ordinances to require retention or detention ponds in any new subdivision	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Port Isabel	Port Isabel	yes	\$ 5,000	\$ 1,000	Local Funds	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200016	Primera Action #10	Adopt higher floodplain standards such as freeboard and cumulative substantial damage	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Primera	Primera	yes	\$ 5,000	\$ 1,000	Local Funds; HMGP	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200017	Primera Action #8	Develop an early warning system to new areas of the jurisdiction to alert residents of impending severe weather	15000009, 15000010	Cameron	12110208			Flood Measurement and Warning	0	Urban	Primera	Primera	yes	\$ 75,000	\$ 1,000	Local Funds; HMGP	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200018	Rancho Viejo Action #3	Adopt the International Building Code (IBC) and International Residential Code (IRC); revise and update regulatory floodplain maps; adopt higher standards in floodplain ordinances including freeboard, no-rise in the floodplain, cumulative substantial damage, etc.	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Primera	Primera	yes	\$ 5,000	\$ 1,000	Local Funds; HMGP	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200019	Rancho Viejo Action #11	Update website with maps and information including StormReady data and links; Mail educational brochures to residents in hazard-prone areas on mitigation measures to reduce damages	15000009, 15000010, 15000015, 15000016	Cameron	12110208			Education and Outreach	0	Urban	Rancho Viejo	Rancho Viejo	yes	\$ 5,000	\$ 1,000	Local Funds; HMGP	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200020	Rio Hondo Action #4	Adopt ASCE24-05 Flood Resistant Design and Construction to reduce flooding caused by Storm Surge	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	Rancho Viejo	Rancho Viejo	yes	\$ 2,000,000	\$ 1,000	USDA; City Funds; HMGP	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200021	San Benito Action #13	Adopt higher standards into the flood damage prevention ordinance to limit floodplain development and provide higher protection to structures in the floodplain	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	San Benito	San Benito	yes	\$ 10,000	\$ 1,000	CDBG; EDC; Pre-Disaster Mitigation Grant Program	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200022	South Padre Island #13	Adopt higher floodplain standards in local floodplain ordinance	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	South Padre Island	South Padre Island	yes	\$ 5,000	\$ 1,000	HMGP; Local Funds	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200023	South Padre Island #3	Adoption erosion control ordinance and prohibit development in high-hazard areas	15000025, 15000026	Cameron	12110208			Regulatory and Guidance	0	Urban	South Padre Island	South Padre Island	yes	\$ 5,000	\$ 1,000	HMGP; Local Funds	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.

TABLE 17: POTENTIALLY FEASIBLE FLOOD MANAGEMENT STRATEGIES RECOMMENDED BY RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Reoccurring Noncapital Cost (\$)	Potential Funding Sources and Amount	Cost/Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
15200024	Alamo # 4-1.1	Develop plan to create A Working Evacuation List For Emergency Situations. Prioritize Flood Prone Areas	15000005, 15000006	Hidalgo	12110208			Regulatory and Guidance	0	Urban	Alamo	Alamo	yes	\$ 1,000	\$ 1,000	Identify Grants; Police Department Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200025	Alamo #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Alamo	Alamo	yes	\$ 2,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200026	Edcouch #3-1.1	Complete Activities Required To Be A Nfip Participating Community	15000023, 15000024	Hidalgo	12110208			Regulatory and Guidance	0	Urban	Edcouch	Edcouch	yes	\$ 5,000	\$ 1,000	FEMA	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200027	Edcouch #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edcouch	Edcouch	yes	\$ 2,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200028	Edcouch #7-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15,000009, 15000010, 15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edcouch	Edcouch	yes	\$ 25,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200029	Edinburg #1-1.2	Develop a Reverse 9-1-1 System	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edinburg	Edinburg	yes	\$ 250,000	\$ 1,000	Federal, State, & Local	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200030	Edinburg #7-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edinburg	Edinburg	yes	\$ 1,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200031	Edinburg #9-1.2	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Edinburg	Edinburg	yes	\$ 31,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200032	Hidalgo #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110207, 12110213			Education and Outreach	0	Urban	Hidalgo	Hidalgo	yes	\$ 5,000	\$ 1,000	N/A	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200033	Hidalgo County #11-1.2	Develop a An Inspection, Maintenance, And Enforcement Program To Ensure Continued Structural Integrity of Dams And Levees.	15000021, 15000022	Hidalgo	12110207, 12110231			Regulatory and Guidance	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 10,000	\$ 1,000	Jurisdiction Budget, Grants	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200034	Hidalgo County #12-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110207, 12110233			Flood Measurement and Warning	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 100,000	\$ 1,000	FEMA, Department Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200035	Hidalgo County #14-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110207, 12110236			Flood Measurement and Warning	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 100,000	\$ 1,000	Department Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200036	Hidalgo County #2-2.1	Incorporate Assessments of Hazards, Including Hurricane, Flood, Wild Land Fires, And Severe Storms, Into Site Selection And Design For New Buildings And When Siting Or Leasing County Facilities	15000019, 15000020	Hidalgo	12110207, 12110213			Flood Measurement and Warning	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 25,000	\$ 1,000	Annual Dept. Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200037	Hidalgo County #3-1.2	Enhance The Appropriate Websites To Provide Convenient Access To Most Current Hazard Maps.	15000013, 15000014, 15000037, 15000038	Hidalgo	12110207, 12110217			Education and Outreach	0	Urban	Hidalgo County	Hidalgo County	yes	\$ 50,000	\$ 1,000	Annual Dept. Budget And External Funding	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200038	La Villa #6-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Education and Outreach	0	Urban	La Villa	La Villa	yes	\$ 1,000	\$ 1,000	N/A	0	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.	
15200039	La Villa #8-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	La Villa	La Villa	yes	\$ 31,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200040	McAllen #11-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	McAllen	McAllen	yes	\$ 1,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200041	McAllen #1-2.1	Develop Emergency Notification Awareness System For Traveling Public Via Transportation System In The Event of Severe Weather In McAllen	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	McAllen	McAllen	yes	\$ 500,000	\$ 1,000	Grants, Matching City Funds	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200042	McAllen #1-2.1	Develop a plan to provide A Means of Disseminating Emergency Information To The Citizens of McAllen	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	McAllen	McAllen	yes	\$ 500,000	\$ 1,000	Grants, Matching City Funds	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200043	Mercedes #11-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Mercedes	Mercedes	yes	\$ 25,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200044	Mercedes #9-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Other	0	Urban	Mercedes	Mercedes	yes	\$ 1,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200045	Mission #1-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Mission	Mission	yes	\$ 31,000	\$ 1,000	City of Mission	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200046	Mission #7-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Mission	Mission	yes	\$ 9,000	\$ 1,000	City of Mission	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200047	Palmview #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Education and Outreach	0	Urban	Palmview	Palmview	yes	\$ 1,000	\$ 1,000	N/A	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200048	Palmview #7-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Palmview	Palmview	yes	\$ 31,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200049	Pharr #10-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Pharr	Pharr	yes	\$ 5,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.

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15200050	Pharr #8-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Pharr	Pharr	yes	\$ 1,000	\$ 1,000	Jurisdiction Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.
15200051	Alamo # 4-1.2	Develop a plan to Provide Traffic Control And Evacuation Assistance During Emergency Situations	15000005, 15000006	Hidalgo	12110208			Flood Measurement and Warning	0	Urban	Alamo	Alamo	yes	\$ 10,000	\$ 1,000	Identify Grants; Police Department Budget	0	No	No	No	No	No	Yes	Strategy complies with the RFPG & TWDB criteria for FMSs.



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