

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

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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: • Revaluation 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	121101030501, 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/bioretenion 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

TABLE 2: SUMMARY OF PROPOSED OR ONGOING FLOOD MITIGATION PROJECTS

Existing Project ID	RFGP No.	RFGP 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
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
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	121101030501, 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	Local Funds	2023	Unknown

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Existing Project ID	RFGP No.	RFGP 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
15000033	15	Lower Rio Grande	City of Laredo Project 2	Drainage Improvements at Bibliotech at Ana Maria Lozano	Webb	13080002, 13080003	121101030501, 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, 121101030301, 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	Local Funds	2023	Unknown
15000034	15	Lower Rio Grande	City of Laredo Project 3	Flores St. Drainage and Utility Improvements	Webb	13080002, 13080003	121101030301, 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

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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	121101030501, 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
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	\$7,000,000	Yes	CWSRF	2023	Unknown

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15000042	15	Lower Rio Grande	Hidalgo Drain (Pct2)_2018 Bond Project 13	Upgrade Existing Culvert Structures, Cleaning, Regrading, 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
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

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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
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

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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	\$1,485,000	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	\$7,392,016	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	\$7,983,000	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
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	\$1,690,300	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

TABLE 2: SUMMARY OF PROPOSED OR ONGOING FLOOD MITIGATION PROJECTS

Existing Project ID	RFG No.	RFG 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
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	\$7,000,000	Yes	CWSRF	2023	Unknown