FLOOD MITIGATION PROJECTS (FMPs) FACT SHEETS

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alton MDP - West Mile 5 Road and Louisiana Street Alternative 2

FMP ID: 153000001

FMP Description

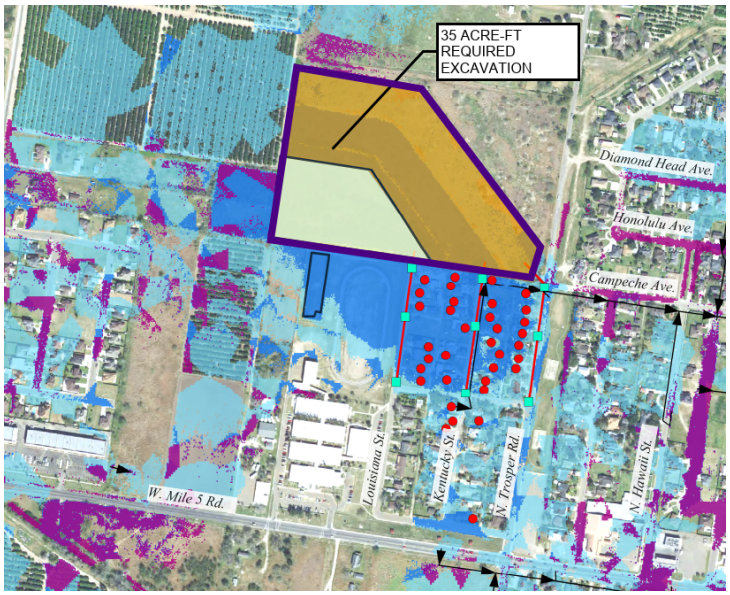
Alternative 2 is designed to remove structures from the 10-year floodplain. Approximately 35 acre-feet of volume is proposed to be excavated. construction consists of 1,940 LF of 36-inch diameter pipe sloped at 0.2% along Louisiana, Kentucky, and Trosper Road out falling directly into the retention pond, 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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110208
HUC 12	**121102080200,**
	121102080300
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$2,152,656	Study Sponsor:	City of Alton
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Alton
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alton MDP - FM 676 South Glasscock Road Alternative 3

FMP ID: 153000002

FMP Description

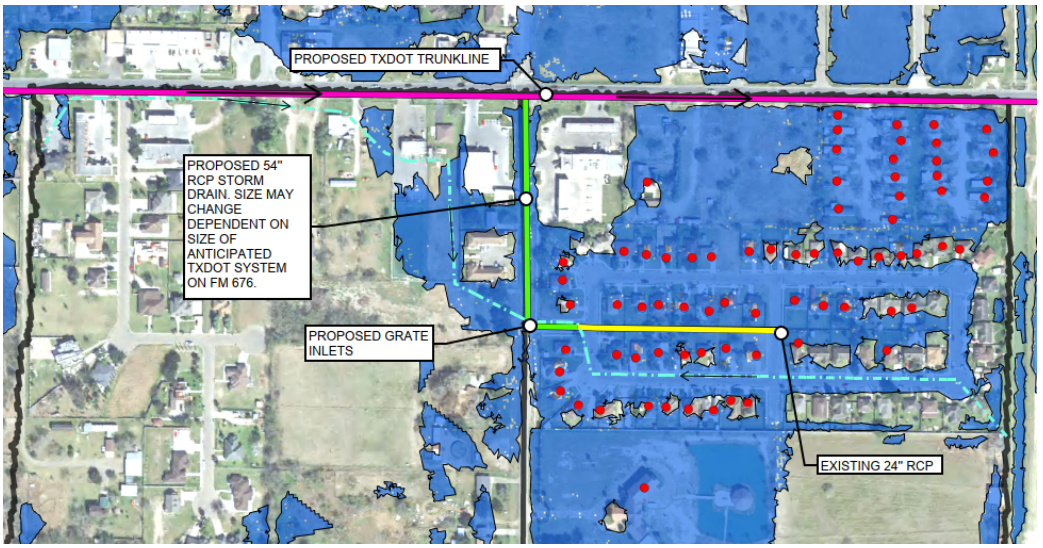
Widening of FM 676 with a proposed storm drain system containing 54" reinforced concrete pipe.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110209**
HUC 12	**121102080200, 121102080300**
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$387,288	Study Sponsor:	City of Alton
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Alton
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alton MDP - North Inspiration Road and West St. Jude Avenue Alternative 2

FMP ID: 153000003

FMP Description

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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

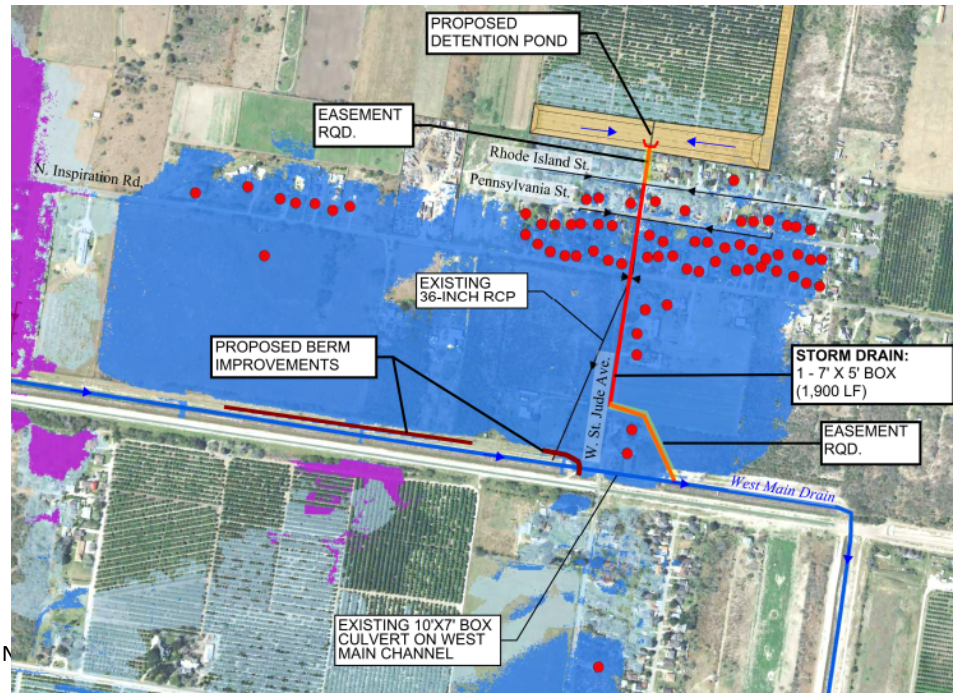
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207, 12110210**

HUC 12 **121102080200, 121102080300**

Study Area (sq. mi.) **N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ N

Population at Risk

Roadways flooded Yes ✓ No ☐ Miles inundated?

Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐

Notes:

Project Costs

Total Cost: $2,817,936 Study Sponsor: City of Alton

Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*

Estimated year to start: Entity with Oversight City of Alton

Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alton MDP - North Stewart Boulevard Alternative 2

FMP ID: 153000004

FMP Description

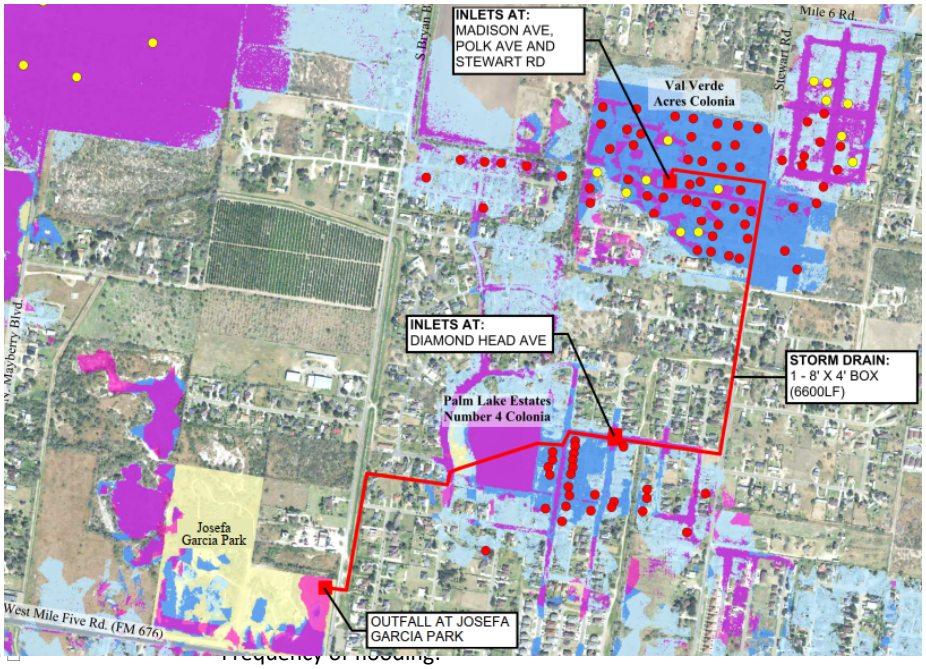
Alternative 2 is designed to remove structures from the 10-year floodplain and more frequent storms. This alternative consists of the construction of 6,600 LF of a single 8' X 4' reinforced concrete box sloped at 0.02% from the Val Verde Acres Subdivision to Josefa Garcia Park.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110211
HUC 12	**121102080200,**
	121102080300
Study Area (sq. mi.)	**0.38**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$8,338,572	Study Sponsor:	City of Alton
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alton MDP - South Stewart Boulevard Alternative 2A

FMP ID: 153000005

FMP Description

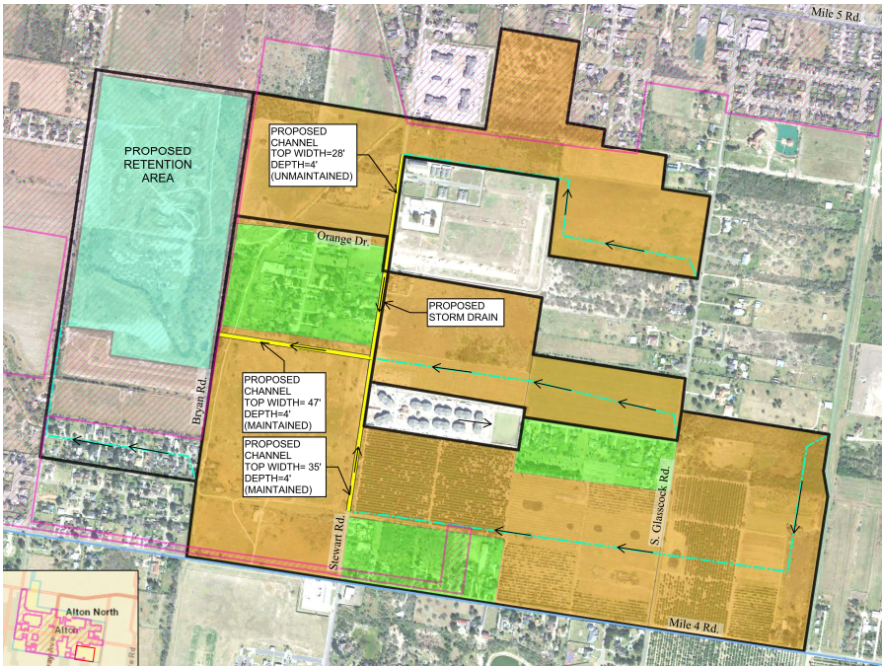
740 LF 6' X 4' Reinforced Concrete Box Culvert starting just south of Orange Dr. and Stewart Rd. 70 acres of land acquisition for regional retention. 3.1 Acres of land for channel conveyance.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110212**
HUC 12	**121102080200, 121102080300**
Study Area (sq. mi.)	**0.81**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$6,296,400	Study Sponsor:	City of Alton
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alton MDP - West Mile 5 and South Glasscock Road Alternative 3

FMP ID: 15300006

FMP Description

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.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110213**
HUC 12	**121102080200, 121102080300**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$1,663,200	Study Sponsor:	City of Alton
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Alton
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ☐ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ✓ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Weslaco Stormwater Improvement Plan -South Texas Boulevard and East 18th Street

FMP ID: 153000007

FMP Description

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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties **Hidalgo**

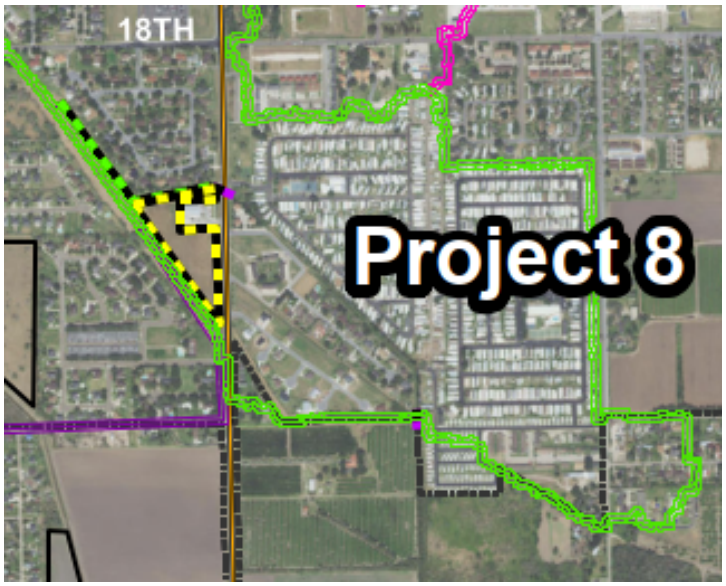
HUC 8 **12110207,**

12110214

HUC 12 **130800020703,**

130800020702

Study Area (sq. mi.) **N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No ☐ Miles inundated?

Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐

Notes:

Project Costs

Total Cost: $1,585,584 Study Sponsor: Weslaco

Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*

Estimated year to start: Entity with Oversight Weslaco

Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ☐ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Downtown Pharr Mitigation Project

FMP ID: 153000008

FMP Description

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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure, Regional Detention

Project Area

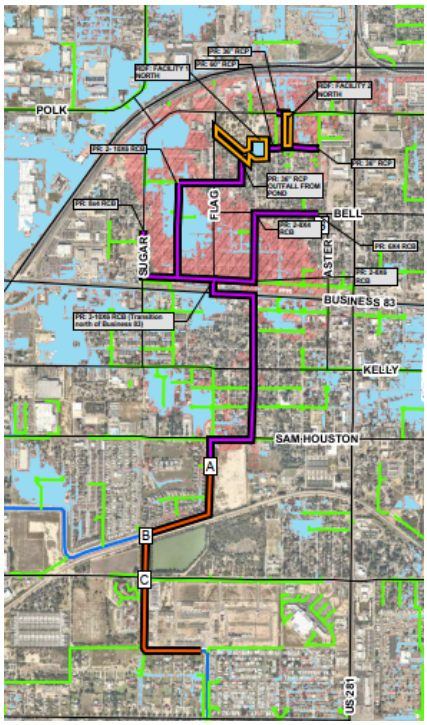
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207, 12110217**

HUC 12 **121102080100, 121102080300, 130900020311**

Study Area (sq. mi.) **N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No ☐ Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $45,241,092
Non-reoccurring Non-capital Cost (include in Total above):
Estimated year to start: 2022
Time to complete? 2024

Study Sponsor: City of Pharr
These are one-time costs for program development, education campaign, and non-engineering study costs.
Entity with Oversight City of Pharr
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

North Pharr Backwater Relief Project

FMP ID: 153000009

FMP Description

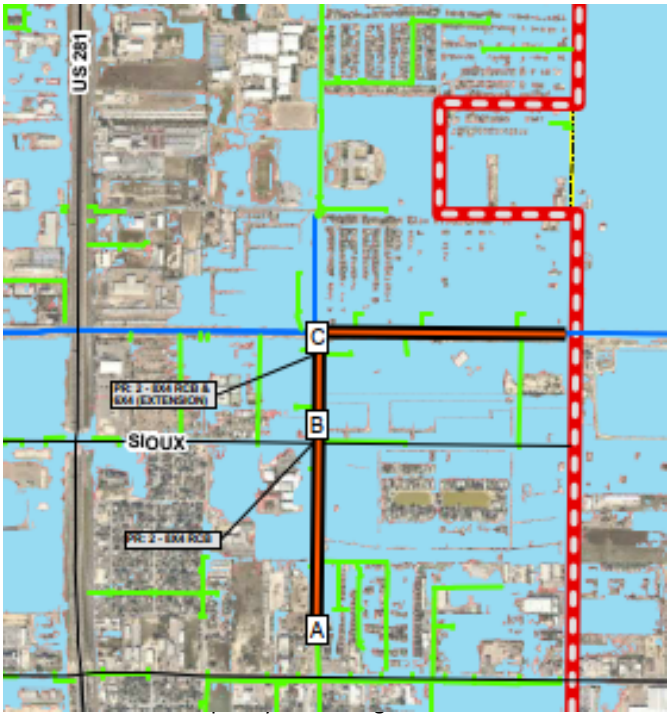
Construct 3400-linear feet of channel improvements on the ditch running from south to north along North Fir Street and 2800-linear feet of channel improvements on the Pharr-McAllen Lateral Ditch up to North I road. Install culvert improvements, 2-8' X 4' RCB, alongside the ditch running parallel to Fir 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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110220**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐		
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$1,628,000	Study Sponsor:	City of Pharr
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:	2022	Entity with Oversight	City of Pharr
Time to complete?	2024	Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

North Pharr Culvert Improvements

FMP ID: 153000010

FMP Description

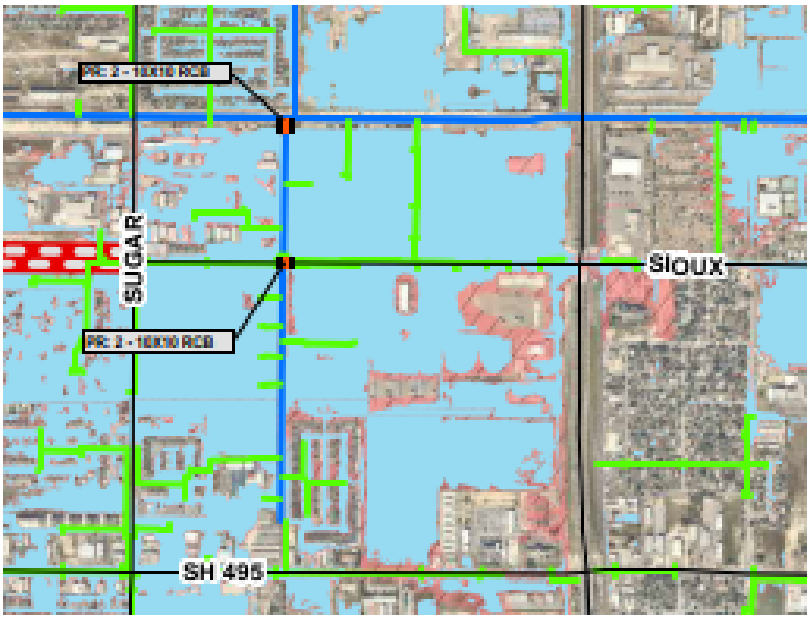
Install culvert improvements, 2-10X10 RCB, alongside the ditch running parallel to N. Erika Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Repave W. Sioux Road.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110221**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$869,000	Study Sponsor:	City of Pharr
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:	2022	Entity with Oversight	City of Pharr
Time to complete?	2024	Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

North Pharr Mitigation Project

FMP ID: 153000011

FMP Description

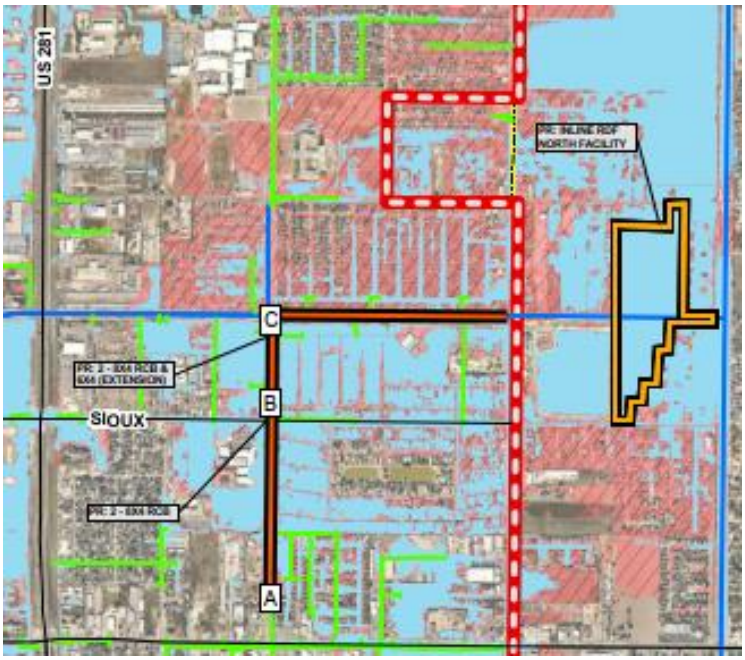
Construct 3400-linear feet of channel improvements on the ditch running from south to north along North Fir Street and 2800-linear feet of channel improvements on the Pharr-McAllen Lateral Ditch up to North I road. Install culvert improvements, 2 – 8' X 4' RCB, alongside the ditch running parallel to 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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110222
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$8,195,000	Study Sponsor:	City of Pharr
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:	2022	Entity with Oversight	City of Pharr
Time to complete?	2024	Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ✓ No ☐

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Southwest Pharr Drainage Mitigation Project

FMP ID: 153000012

FMP Description

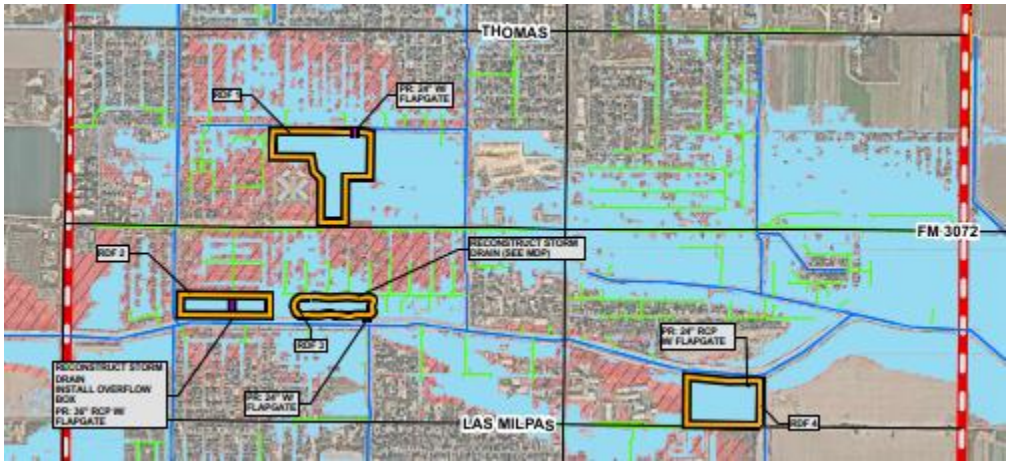
Construct four regional detention facilities (RDF). RDF 1 has a footprint of 19.75-acres and is a lateral detention facility located between Dicker and Thomas Road west of Highway 281 and near Carmen Anaya Elementary. RDF 2 has a footprint of 7.4-acres and located in the western section of Jones Box Park. RDF 3 has a footprint of 5.5-acres and located in the central section of Jones Box Park. Redirect flow from the Los Ranchitos Subdivisions via a reconfigured 36'' RCP into a pilot channel located in the deepest section of the pond. Install 36''RCP and flap gate at the outfall to prevent backflow from the South Floodwater Channel into the subdivisions north of Jones Box Park. RDF 4 is located between Dicker and Las Milpas Road east of Highway 281, south of the South Floodwater Channel, and will require a footprint of 13.8-acres.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure, Regional Detention

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110227**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**0.07**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$5,587,275	Study Sponsor:	City of Pharr
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:	2022	Entity with Oversight	City of Pharr
Time to complete?	2024	Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ✓ No ☐

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Pharr - San Juan Regional Detention Facility

FMP ID: 153000013

FMP Description

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.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Regional Detention

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110224**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$5,148,000	Study Sponsor:	City of Pharr
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:	2022	Entity with Oversight	City of Pharr
Time to complete?	2024	Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Weslaco Stormwater Improvement Plan - Pleasantview Drive and 11th Street

FMP ID: 153000014

FMP Description

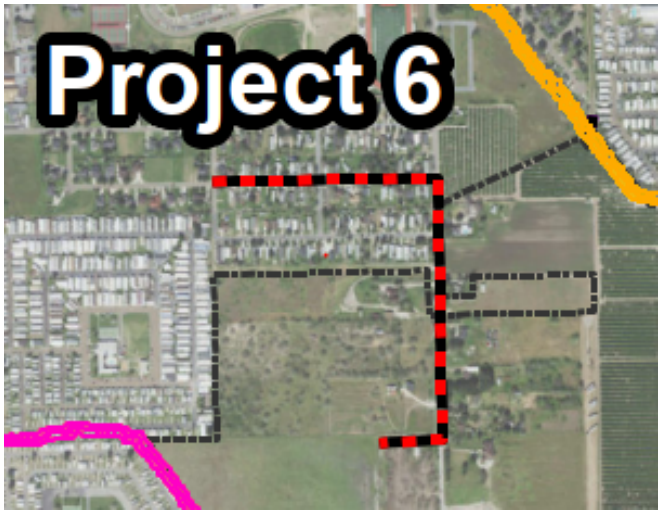
Installation of 3,220 LF of new storm drain system consisting of two – 8' x 4' RCBs along Mile 3 ½.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure, Regional Detention

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110228
HUC 12	**121102080100,**
	121102080300
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$4,775,000	Study Sponsor:	City of Weslaco
Non-reoccurring Non-capital Cost (include in Total above):	*These are one-time costs for program development, education campaign, and non-engineering study costs.*		
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation	Yes ☐ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ☐	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Weslaco Stormwater Improvement Plan - Mile 10 N and Mile 5 ½ W

FMP ID: 153000015

FMP Description

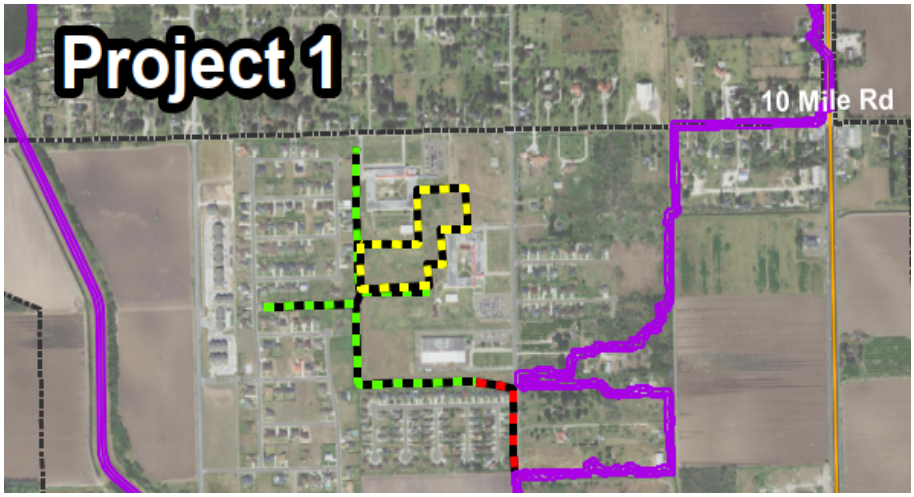
Construction of an 8 acre detention pond, with approximately 4,000 LF of channel widening along the back of the neighborhoods and between the Justice Raul A. Gonzalez Elementary School and Joe Calvillo Jr Career & Technology Education Complex; replacement of existing undersized channel culvert with two – 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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110230**
HUC 12	**121102080100, 121102080300**
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$4,441,008	Study Sponsor:	City of Weslaco
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ☐ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83

FMP ID: 153000016

FMP Description

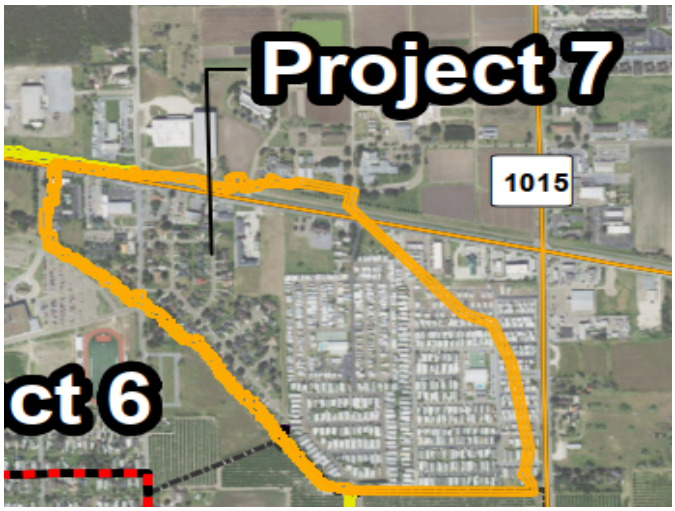
Replacement of 48 – inch culverts at two roadway crossings with 6' x 4' RCBs.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110231
HUC 12	**121102080100,**
	121102080300
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$93,808	Study Sponsor:	City of Weslaco
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Weslaco Stormwater Improvement Plan - Texas Boulevard to Airport Drive, South of Business 83

FMP ID: 153000017

FMP Description

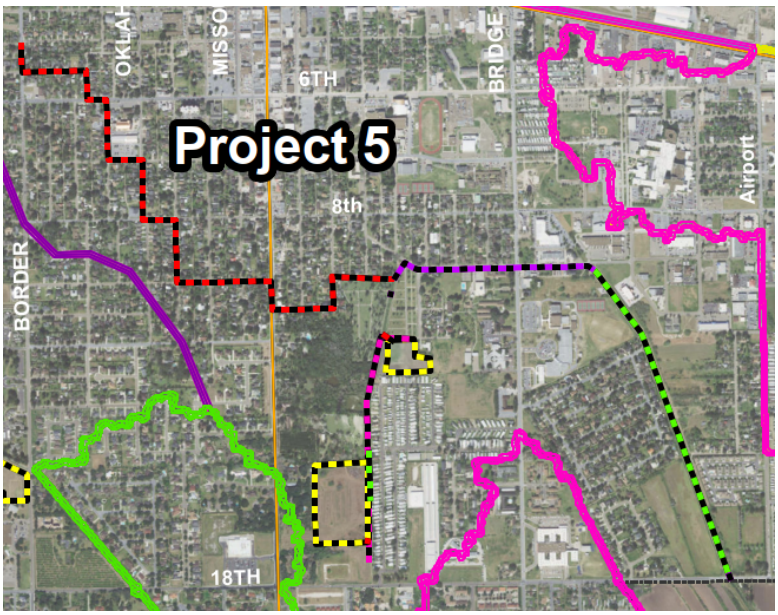
Replacement of 48 – inch culverts at two roadway crossings with 6' x 4' RCBs.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110232
HUC 12	**121102080100,**
	121102080300
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$43,984,512	Study Sponsor:	City of Weslaco
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Weslaco Stormwater Improvement Plan - West Weslaco

FMP ID: 153000018

FMP Description

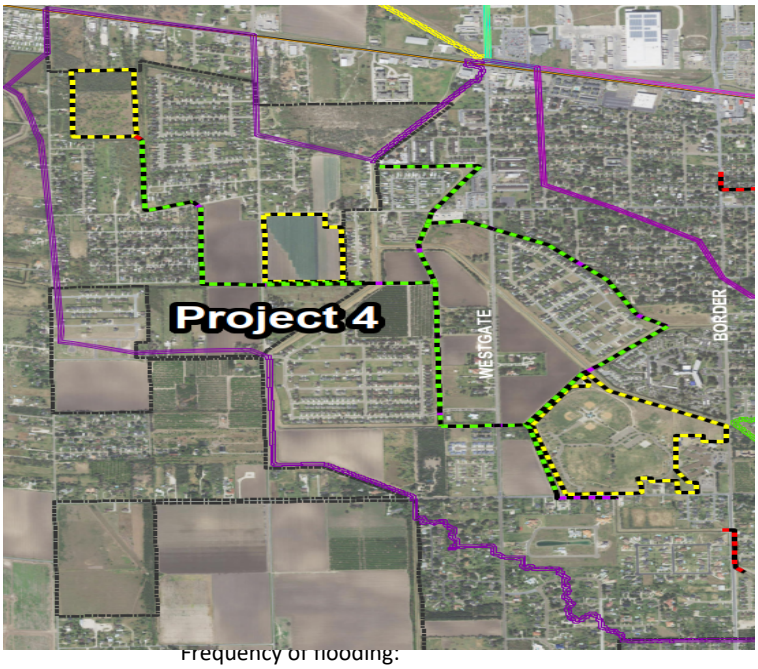
The project is located just west of Border Avenue, between US 83 and Zelma Street. Construction of three detention ponds, 18 acres east of Vaughn Road and Midway Road, 26 acres near West 6th Street and Milano Road and 60 acres at Harlon Block Sports Complex, approximately 17,000 LF of channel widening 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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110233
HUC 12	**121102080100,**
	121102080300
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$37,305,840	Study Sponsor:	City of Weslaco
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Weslaco Stormwater Improvement Plan - Westgate Drive and Sugar Cane Drive

FMP ID: 153000019

FMP Description

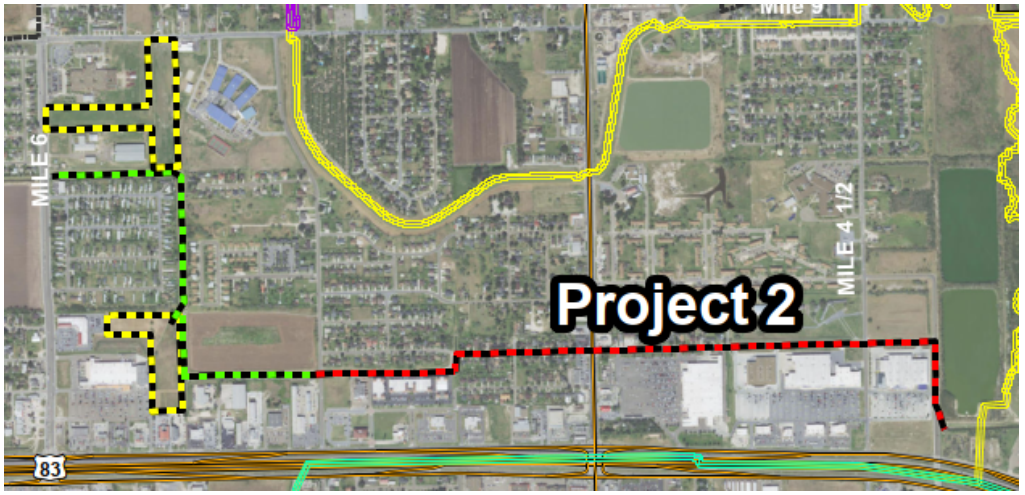
Construction of two detention ponds, 11 acres near Clecker-Heald Elementary School and 8 acres behind the commercial properties north of Interstate 2, approximately 4,500 LF of channel widening connecting the two ponds, addition of a new 42-inch reinforced concrete pipe (RCP) culvert east of Border Avenue, and installation of approximately 5,600 LF of an 8' x 4' RCB storm drain system along West Paisano Lane and East Ballard Street.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110234**
HUC 12	**121102080100, 121102080300**
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$11,099,088	Study Sponsor:	City of Weslaco
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & Ware Rd.

FMP ID: 153000020

FMP Description

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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

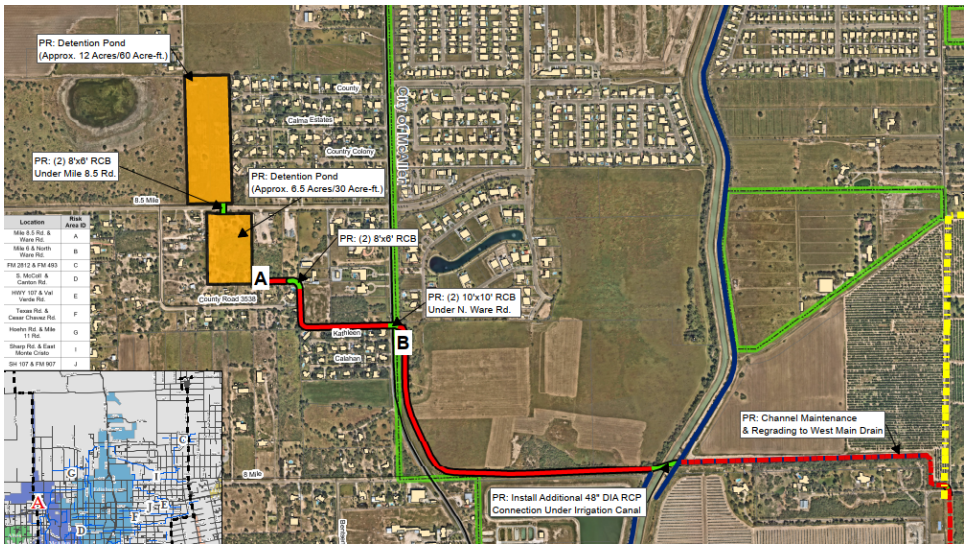
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207, 12110279**

HUC 12 **121102080400, 121102070100, 121102080200**

Study Area (sq. mi.) **N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$19,899,000	Study Sponsor:	Hidalgo County Precinct 4
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Precinct 4
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Precinct 4 MDP - Risk Area B at Mile 6 & North Ware Rd.

FMP ID: 153000021

FMP Description

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.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

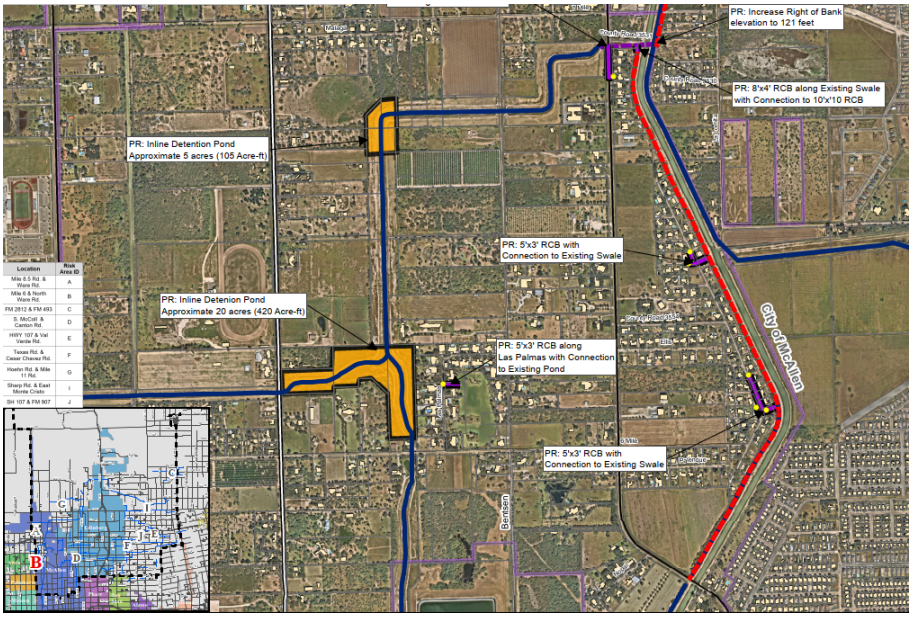
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207, 12110280**

HUC 12 **121102080400, 121102070100, 121102080200, 121102080200**

Study Area (sq. mi.) **N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$27,175,500	Study Sponsor:	Hidalgo County Precinct 4
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Precinct 4
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Precinct 4 MDP - Risk Area C at FM 2812 & FM 493

FMP ID: 153000022

FMP Description

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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

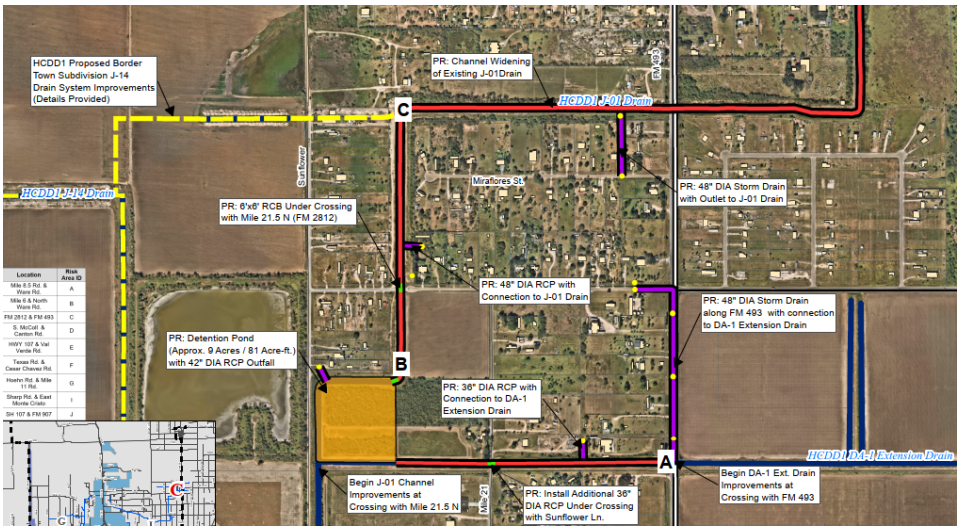
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207, 12110281**

HUC 12 **121102080400, 121102070100, 121102080200, 121102080200**

Study Area (sq. mi.) **N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No ☐ Miles inundated?

Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐

Notes:

Project Costs

Total Cost: $7, 887,000 Study Sponsor: Hidalgo County Precinct 4

Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*

Estimated year to start: Entity with Oversight Hidalgo County Precinct 4

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Precinct 4 MDP - Risk Area D at S. McColl & Canton Rd.

FMP ID: 153000023

FMP Description

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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

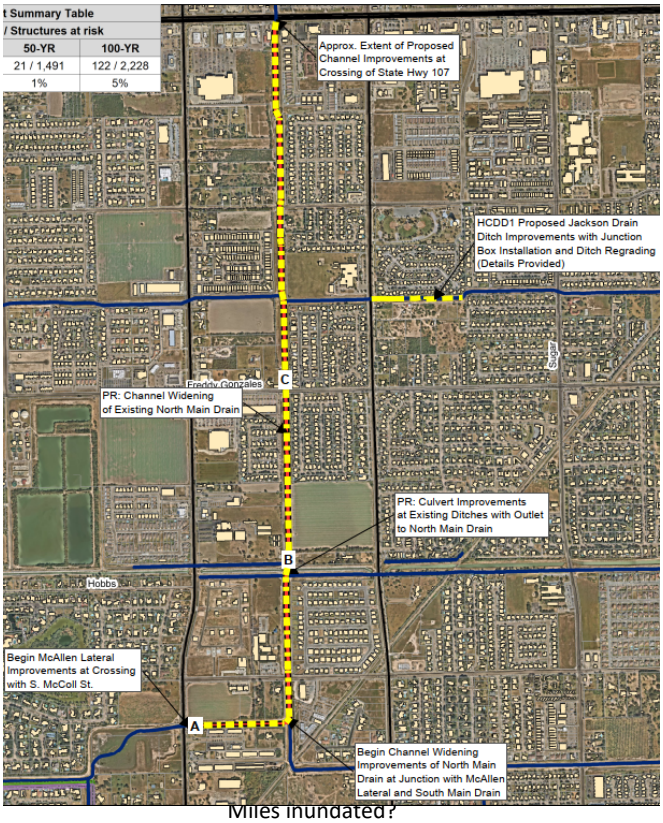
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207, 12110282**

HUC 12 **121102080400, 121102070100, 121102080200, 121102080200**

Study Area (sq. mi.) **N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Population at Risk
Roadways flooded Yes ✓ No ☐
Critical Facilities Impacted Yes ☐ No ☐
Notes:

Miles inundated?
Agricultural Land impacted Yes ☐ No ☐

Project Costs

Total Cost: $6,358,000
Non-reoccurring Non-capital Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Hidalgo County Precinct 4
These are one-time costs for program development, education campaign, and non-engineering study costs.
Entity with Oversight Hidalgo County Precinct 4
Included in a Hazard Mitigation Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Precinct 4 MDP - Risk Area E at Hwy 107 & Val Verde Rd.

FMP ID: 153000024

FMP Description

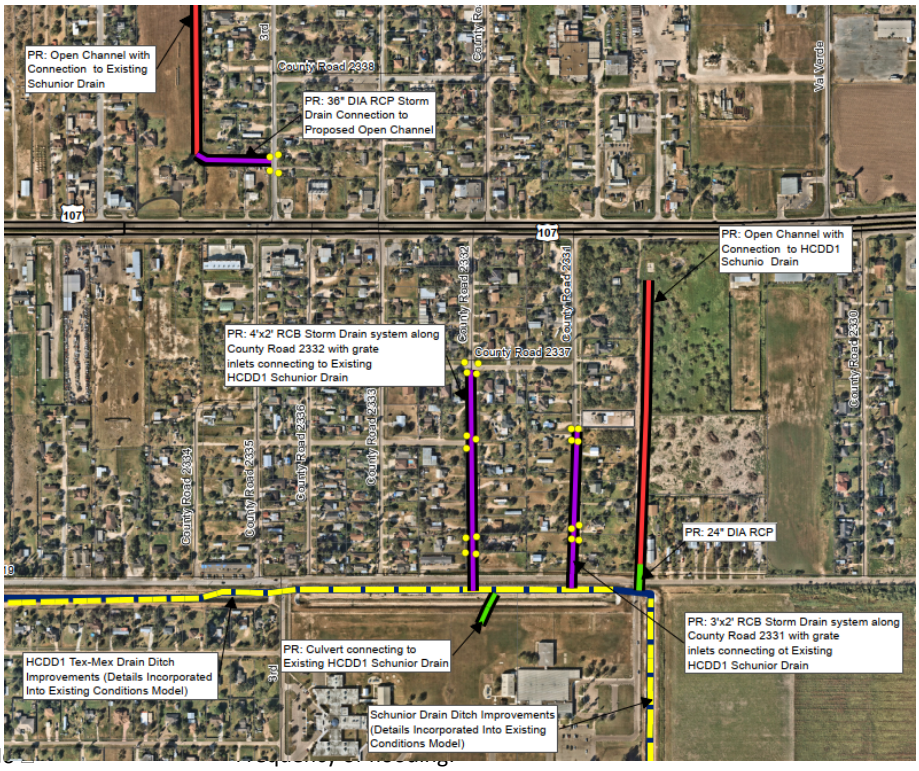
Channel Improvements with approximately 0.3 miles of proposed improvements. Proposed detention pond north of Tex-Mex Rd. and east of S 87th St. has an approximate footprint of 4.25 acres and capacity of 20 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets spaced along every 500' of storm drain with a 4'x2' RCB along S 85th St.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110283
HUC 12	**121102080400,**
	121102070100,
	121102080200,
	121102080200
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	[illegible]	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$4,983,000	Study Sponsor:	Hidalgo County Precinct 4
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Precinct 4
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Precinct 4 MDP - Risk Area F at Texas Rd. & Cesar Chavez Rd.

FMP ID: 153000025

FMP Description

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.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

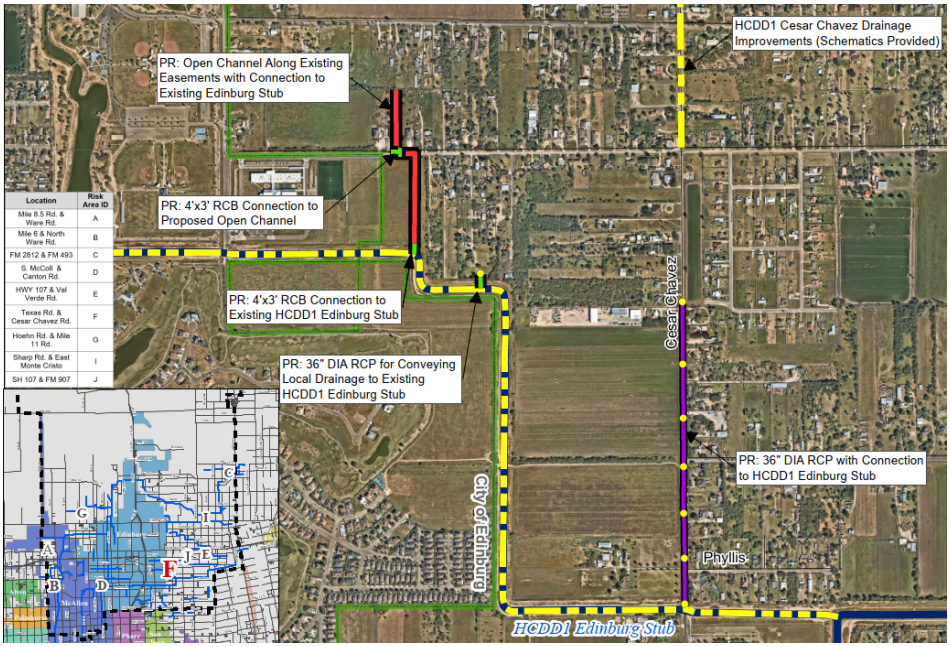
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207, 12110284**

HUC 12 **121102080400, 121102070100, 121102080200, 121102080200**

Study Area (sq. mi.) **N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No ☐ Miles inundated?

Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐

Notes:

Project Costs

Total Cost: $7,920,000 Study Sponsor: Hidalgo County Precinct 4

Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*

Estimated year to start: Entity with Oversight Hidalgo County Precinct 4

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Precinct 4 MDP - Risk Area G at Hoehn Rd. & Mile 11 Rd.

FMP ID: 153000026

FMP Description

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

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

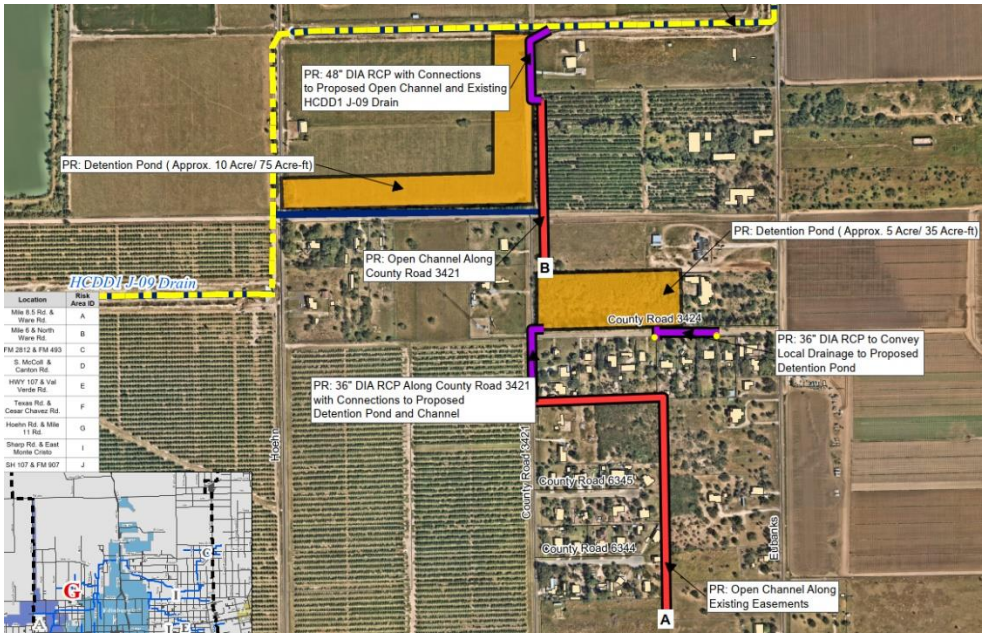
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207, 12110285**

HUC 12 **121102080400, 121102070100, 121102080200, 121102080200**

Study Area (sq. mi.) **N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$6,061,000	Study Sponsor:	Hidalgo County Precinct 4
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Precinct 4
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Precinct 4 MDP - Risk Area I at Sharp Rd. & E Monte Cristo Rd

FMP ID: 153000027

FMP Description

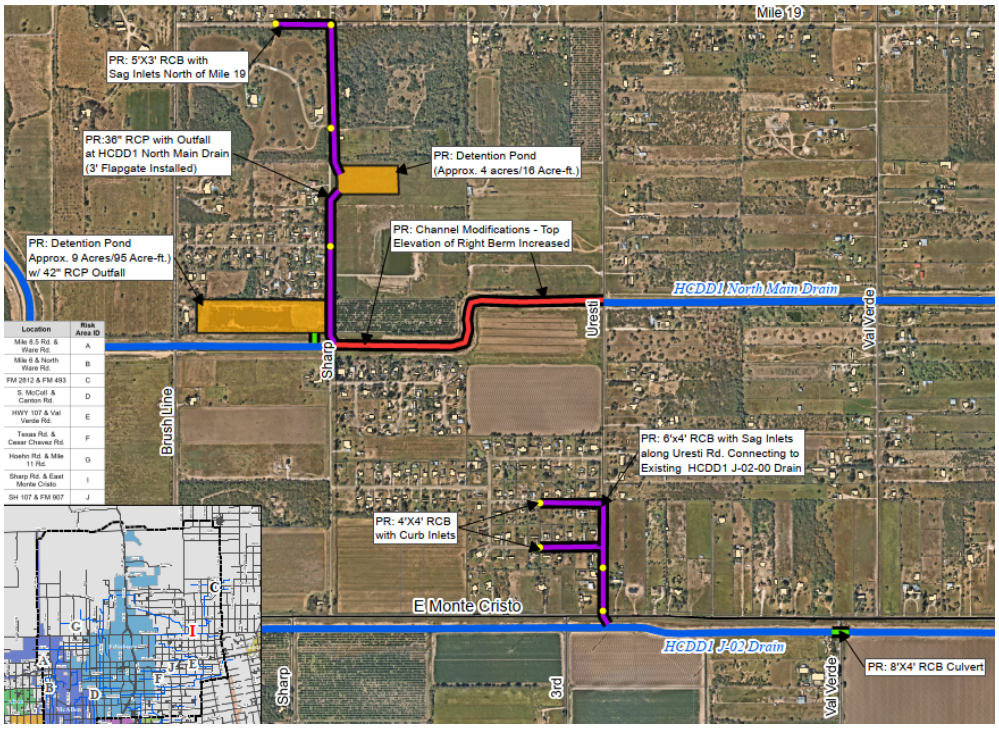
Inlets and proposed storm drain with Approximately 1,100' of 4'x4' RCB storm drain with curb inlets to be installed along Hendrix Dr. and Gaston Cr. with approximately 1,200' of 6'x4' RCB storm with grate and sag inlets along Uresti Rd. with connection to the HCDD1 J-02 Drain. Proposed installation of 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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110286**
HUC 12	**121102080400, 121102070100, 121102080200, 121102080200**
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$5,995,000	Study Sponsor:	Hidalgo County Precinct 4
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Precinct 4

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Precinct 4 MDP - Risk Area J at SH 107 & FM 907

FMP ID: 153000028

FMP Description

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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110287**
HUC 12	**121102080400, 121102070100, 121102080200, 121102080200**
Study Area (sq. mi.)	**N/A**

Insert snip of Location Map here

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$3,608,000	Study Sponsor:	Hidalgo County Precinct 4
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Precinct 4

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 11 Rancho Escondido

FMP ID: 153000029

FMP Description

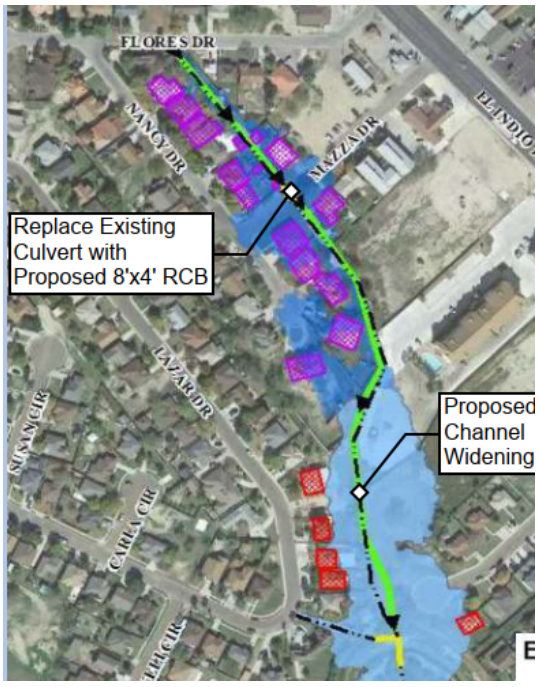
Project includes constructing 10'x2' U-shaped channel from Flores Drive to just south of Microtel Inn Suites, replacing existing culvert under Maza Drive with 1-8'x4 RCB, and installing curb inlet at cul-de-sac on Nancy Drive.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Maverick**
HUC 8	**13080001, 13080002**
HUC 12	**130800020703, 130800020702**
Study Area (sq. mi.)	**0.03**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$911,900	Study Sponsor:	City of Eagle Pass
Non-reoccurring Non-capital Cost (include in Total above):	,	*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 12 Fox Borough Drive

FMP ID: 153000030

FMP Description

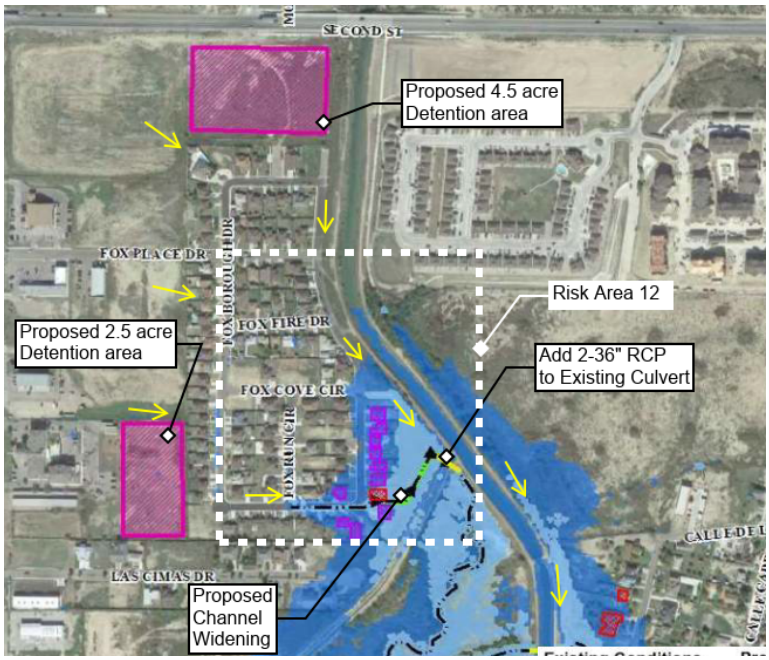
Project includes bypassing flow from inlet at PointLoma Drive and North Point Drive to the detention pond with 1 - 8'x4' RCB and Installing additional curb inlets on N. Point Drive and Silver Oak Circle.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Maverick**
HUC 8	**13080001, 13080002**
HUC 12	**130800020703, 130800020702**
Study Area (sq. mi.)	**0.05**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$1,185,800	Study Sponsor:	City of Eagle Pass
Non-reoccurring Non-capital Cost (include in Total above):	,	*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 13 Celle De Los Santos neighborhood. Additional culvert under irrigation canal.

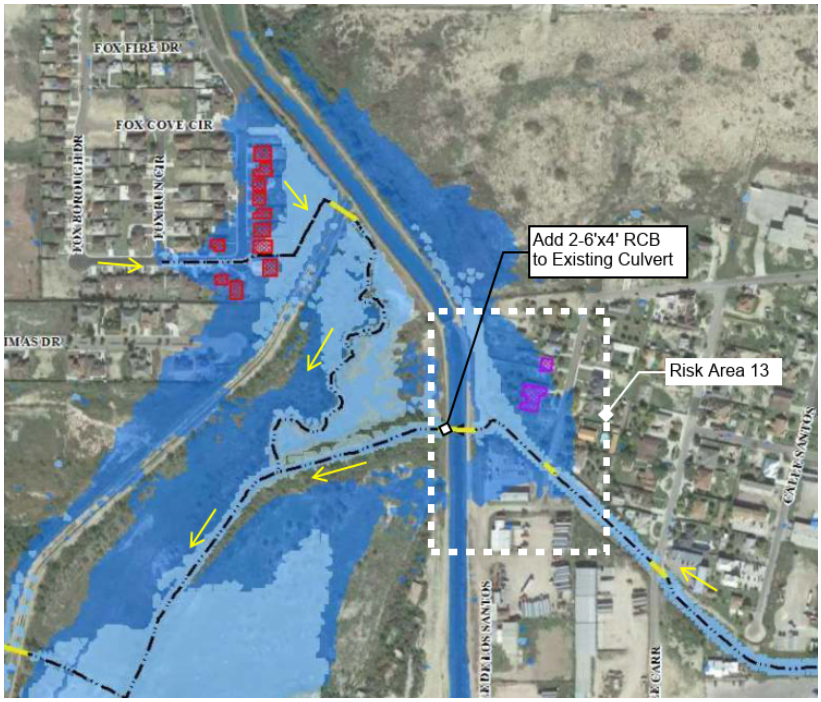
FMP ID: 153000031

FMP Description

Project includes upgrading existing culvert crossing irrigation canal from 2-6'x4' RCB to 4-6'x4' RCB.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure



Project Area

City/ Cities	
County/ Counties	**Maverick**
HUC 8	**13080001,** **13080002**
HUC 12	**130800020703,** **130800020702**
Study Area (sq. mi.)	**0.03**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$181,500	Study Sponsor:	City of Eagle Pass
Non-reoccurring Non-capital Cost (include in Total above):	,	*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 15 Trib 3 Detention at Main Street

FMP ID: 153000032

FMP Description

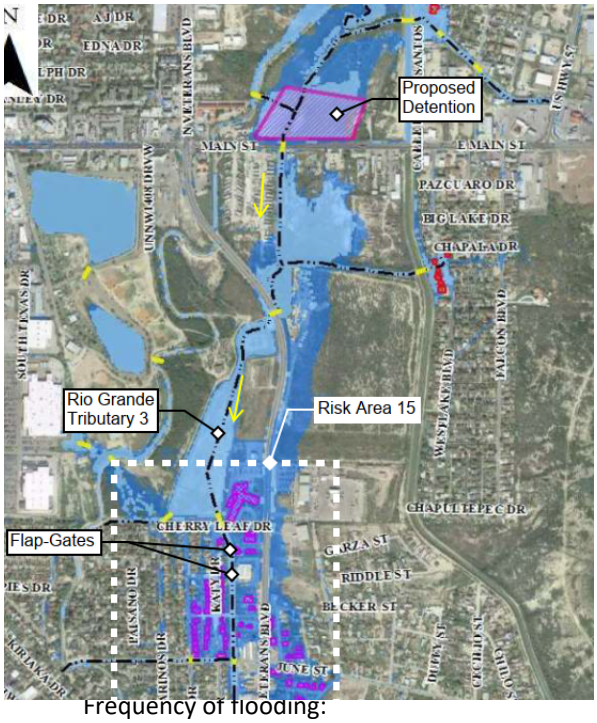
Project includes constructing 10 acre detention pond (29 ac-ft volume) along East Channel north of Highway 277 and installing flap-gates at flume outfalls on Omar Drive and Jana Drive, to prevent more frequent stormwater from backing up into the neighborhood on the west side of the channel.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Maverick**
HUC 8	**13080001,**
	13080002
HUC 12	**130800020703,**
	130800020702
Study Area (sq. mi.)	**0.05**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$828,300	Study Sponsor:	City of Eagle Pass
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 2 Treasure Hills

FMP ID: 153000033

FMP Description

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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Maverick**
HUC 8	**13080001, 13080002**
HUC 12	**130800020703, 130800020702**
Study Area (sq. mi.)	**0.06**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$597,300	Study Sponsor:	City of Eagle Pass
Non-reoccurring Non-capital Cost (include in Total above):	,	*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 3 Arrow Point Boulevard

FMP ID: 153000034

FMP Description

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.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Are

City/ Cities	
County/ Counties	**Maverick**
HUC 8	**13080001, 13080002**
HUC 12	**130800020703, 130800020702**
Study Area (sq. mi.)	**0.02**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$52,800	Study Sponsor:	City of Eagle Pass
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 4 Bibb & Misty Willow storm drain

FMP ID: 153000035

FMP Description

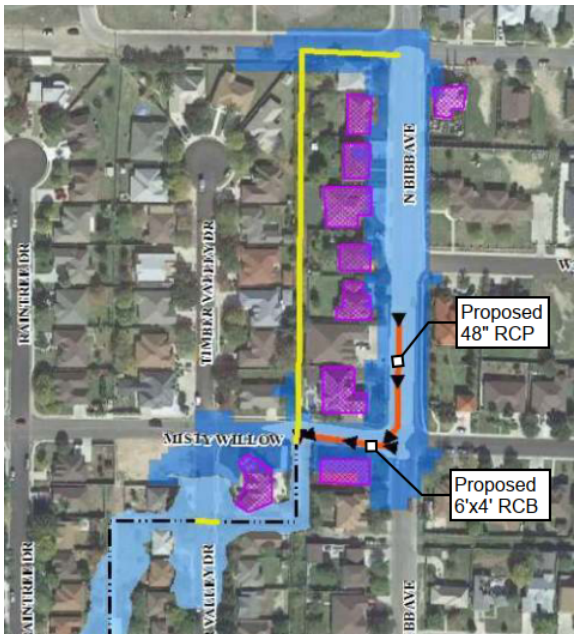
Project includes installing 6'x4' RCB along Misty Willow Drive from N Bibb Avenue to existing channel between N Bibb Avenue and Timber Valley and installing curb inlets on N Bibb Avenue and Misty Willow Drive.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Maverick**
HUC 8	**13080001, 13080002**
HUC 12	**130800020703, 130800020702**
Study Area (sq. mi.)	**0.02**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$316,800	Study Sponsor:	City of Eagle Pass
Non-reoccurring Non-capital Cost (include in Total above):	,	*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 5 Debona Drive

FMP ID: 153000036

FMP Description

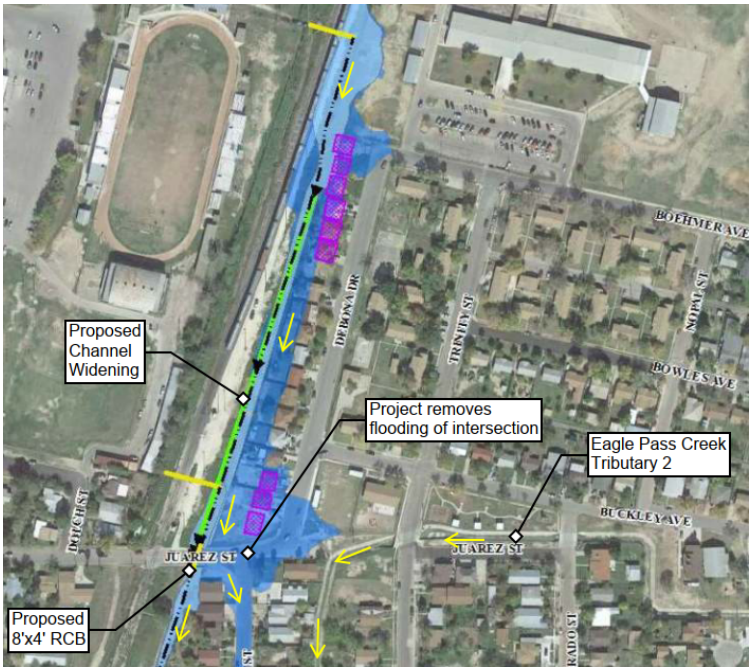
Project includes constructing a 5' deep trapezoidal channel approximately 30 feet wide with 3:1 side slopes and a 5' concrete pilot channel, replacing Juarez Street culvert with 8'x4' box culvert, and realigning existing channel to provide additional distance from homes.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Maverick**
HUC 8	**13080001,**
	13080002
HUC 12	**130800020703,**
	130800020702
Study Area (sq. mi.)	**0.02**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$359,700	Study Sponsor:	City of Eagle Pass
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 6 Trib 2 bypass & detention at Eagle Pass High School fields

FMP ID: 153000037

FMP Description

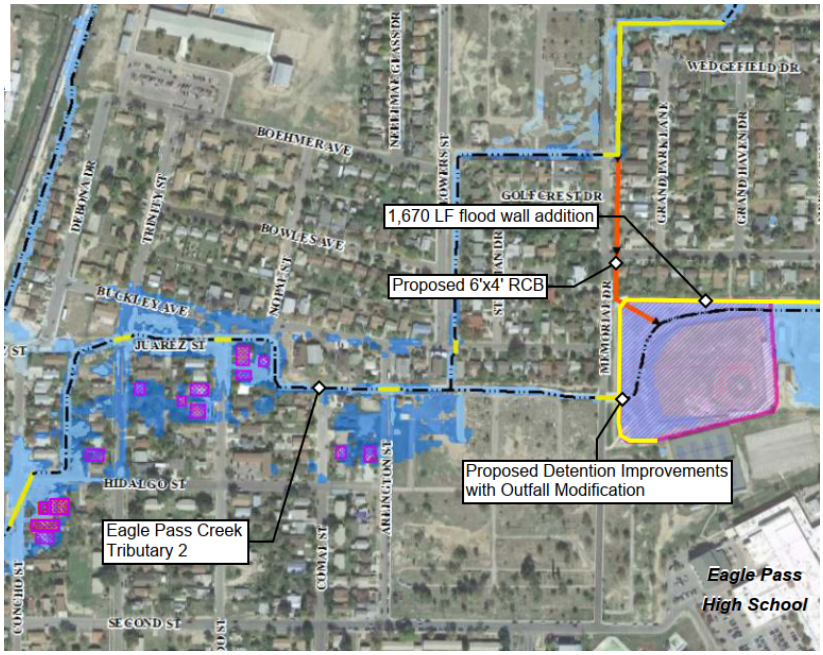
Project includes bypassing flow from Golfcrest Drive to the detention pond with 1-6'x4', RCB Modifying outfall structure from 2-5'x3' RCB to 1-5'x3' RCB, and Lowering existing baseball field by 3 ft to provide an additional 30 ac-ft of storage.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Maverick**
HUC 8	**13080001, 13080002**
HUC 12	**130800020703, 130800020702**
Study Area (sq. mi.)	**0.10**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐
Notes:			

Project Costs

Total Cost:	$957,000	Study Sponsor:	City of Eagle Pass
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐	No ✓	
Does the project have any negative effects, per TWDB guidelines?	Yes ☐	No ☐	Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐	No ☐	Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐	No ☐	Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐	No ✓	
Has all the ROW been acquired?	Yes ☐	No ☐	
Will permits or interlocal agreements be needed for this project?	Yes ☐	No ☐	

Related Goals

- ☐ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Risk Area 8 Tributary 2 channel widening near Alexander Drive

FMP ID: 153000038

FMP Description

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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties **Maverick**

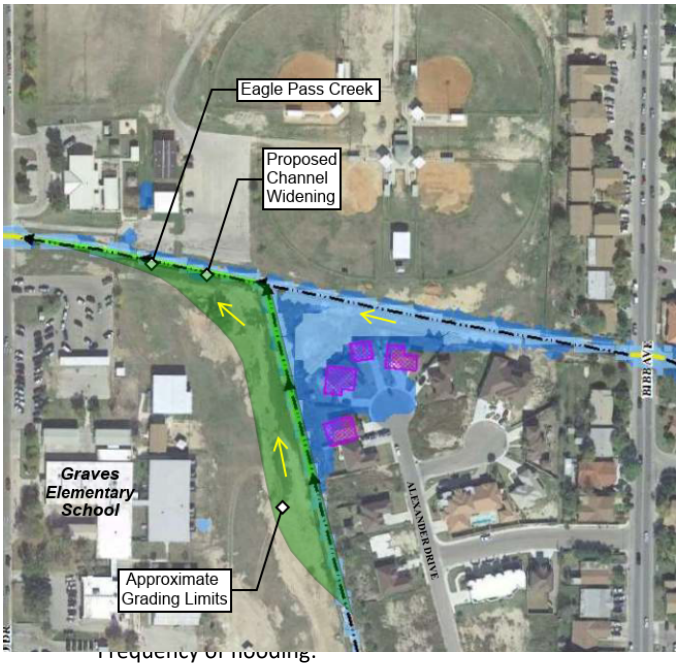
HUC 8 **13080001,**

13080002

HUC 12 **130800020703,**

130800020702

Study Area (sq. mi.) **0.04**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐

Population at Risk

Roadways flooded Yes ✓ No ☐

Critical Facilities Impacted Yes ☐ No ☐

Notes:

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes ☐ No ☐

Project Costs

Total Cost: $80,300

Non-reoccurring Non-capital Cost (include in Total above):

Estimated year to start:

Time to complete?

Funding Dedicated? Yes ☐ No ✓

Study Sponsor: City of Eagle Pass

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight City of Eagle Pass

Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

(Potential) Source of Funding FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alton MDP - North Inspiration Road and West St. Jude Avenue

FMP ID: 153000039

FMP Description

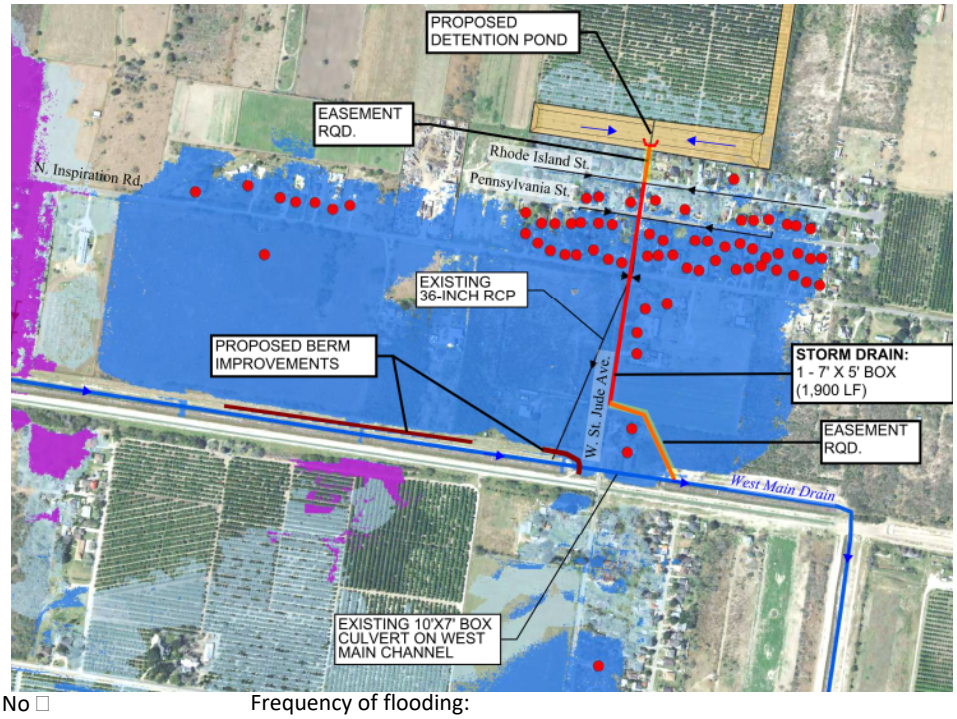
Upsize The Storm Drain Under West St. Jude Avenue. Trunk Line Will Consist Of 1900 Lf Of A Single 7'X5' Rcb Sloped At 0.5% From The Area Just West Of The Neighborhood On W. St. Jude Avenue To The West Main Drain Channel, Downstream (North) Of The Existing 10'X7' Box Culvert. Discharging At An Angle On The Northside Of St. Jude Avenue Will Improve Efficiency Where The Tailwater Of West Main Drain Is Much Lower. Small Detention Pond Will Be Required On The Westside Of The Houses On Rhode Island St To Capture Runoff From The 700 Acres Mentioned Earlier. Berm Improvements Are Recommended Along The West Main Drain Bank. Overall, 72 Existing Structures Will Be Removed From The 25 Yr. Floodplain.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**



Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓	No ☐	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐	No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$2,609,200	Study Sponsor:	City of Alton
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Alton

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-102

FMP ID: 153000040

FMP Description

Project includes expansion of HCDD1 Lull Drain and addition of laterals NM-102-01, NM-102-02, and NM-102-03. Should happen 2023 development ongoing and city will participate to make it happen.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$15,000,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-103

FMP ID: 153000041

FMP Description

Replace culverts on Access Road and Monte Cristo with 10'X6' RCB and relace 36" RCP on Rogers, Utility - Canal and Russell with 8' X 6' RCB for Rogers. 6' x 6' RCB for Utility - Canal and 48" RCP for Russell. Get included in plan

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$17,190,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-105

FMP ID: 153000042

FMP Description

Project includes a lateral ditch with a 10-foot bottom width, 3:1 (H:V) sode slopes, and 8-foot depth, Also, replacing existing crossings at McColl (30-in RCP), Monument Mack (30-in RCP), and Hoehn (18-in RCP) into 5'x5' RCB, 6'x4' RCB and 48-in RCP respectively. Get included in plan.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No ☐ Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $15,850,000 Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start: Entity with Oversight Hidalgo County Drainage District #1
Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-106

FMP ID: 153000043

FMP Description

Project includes extending west with a 10-foot bottom width, 3:1 (H:V) sode slopes, and 8-foot depth as well as replacing existing crossing at McColl (36-in RCP) and Access (36-in RCP) into 2-36-in RCP each. plan

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $3,060,000
Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Hidalgo County Drainage District #1
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-108

FMP ID: 153000044

FMP Description

Replace 10' x 6' RCB with a 48" RCP along Jackson Road crossing to increase conveyance of the ditch system. Plan

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $5,460,000
Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Hidalgo County Drainage District #1
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-109

FMP ID: 153000045

FMP Description

Enlarge 36" RCP along culvert to 48" RCP to increase the conveyance capacity of the ditch system. Include in the plan.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$5,660,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-110

FMP ID: 153000046

FMP Description

Project includes an extension of 8'x4' RCB upstream to increase conveyance across McColl Road. Also, replacing existing crossings at Utility (30-in RCP), Mon Mack (36-in RCP), and Saker (36-in RCP) into 7'x4x RCB, 7'x4' RCB and 2-36-in RCP, respectively.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No ☐ Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $4,560,000 Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start: Entity with Oversight Hidalgo County Drainage District #1
Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-113

FMP ID: 153000047

FMP Description

Replace 5' x 4' RCB along Jackson Road with 2 - 5' X 4' RCB and replace the current 5' X 4' RCB along the Railroad with a new 5' X 4' RCB. On Sugar Road increase the size of the culvert 18" RCB to a 42" RCB. Nothing there include in plan - irrigation district is doing concrete lining and city has not been involved.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$5,440,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-115

FMP ID: 153000048

FMP Description

Project includes replacing existing crossing at Wisconsin (7'x8' RCB), Alberta (8'x9' RCB), Utility (8'x7' RCB), Dove (7'x6' RCB), Violet (6'x5' RCB), Utility (6'x4' RCB), and Utility (6'x4') into 2-7'x8' RCB, 2-8'x9' RCB, 2-8'x7' RCB, 2-7'x6' RCB, 10'x8' RCB, 2-6'x4' RCB and 2-6'x4' RCB, respectively. Include in plan.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No ☐ Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $21,110,000 Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start: Entity with Oversight Hidalgo County Drainage District #1
Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

NM-116

FMP ID: 153000049

FMP Description

Project includes replacing existing crossing at Wisconsin (2-36-in RCP) into 6'x5' RCB.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $7,480,000
Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Hidalgo County Drainage District #1
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Raymondville Drain BP 2

FMP ID: 153000050

FMP Description

Consists of drainage ditch connection to existing channels. Existing channels improvements of approximately 63 miles of drainage improvements include in-line and off-line detention, reservoirs and control structures that stretch from Edinburg Lake to the Laguna Madre.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$15,000,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

North Main Drain III and I BP 4

FMP ID: 153000051

FMP Description

9 miles of channel improvements includes widening the North Main Drain within existing right of way.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$17,190,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

North Main Drain I BP 5

FMP ID: 153000052

FMP Description

5.7 miles of channel improvements includes widening the North Main Drain within existing right of way

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Population at Risk
Roadways flooded Yes ✓ No ☐
Critical Facilities Impacted Yes ☐ No ☐
Notes:

Frequency of flooding:
# of structures inundated
Miles inundated?
Agricultural Land impacted Yes ☐ No ☐

Project Costs

Total Cost: $15,850,000
Non-reoccurring Non-capital Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Hidalgo County Drainage District #1
These are one-time costs for program development, education campaign, and non-engineering study costs.
Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Panchitas outfall structure BP 6

FMP ID: 153000053

FMP Description

Rehab of the outfall structure, including concrete embankment replacement

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edcouch**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No ☐ Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $3,060,000 Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start: Entity with Oversight Hidalgo County Drainage District #1
Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Palmview Lateral BP 7

FMP ID: 153000054

FMP Description

1.3 miles of channel improvements includes widening of the Palmview Lateral within existing right of way.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Palmview**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $5,460,000
Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Hidalgo County Drainage District #1
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Pharr-McAllen Lateral BP 9

FMP ID: 153000055

FMP Description

3 miles of channel improvements, widening lateral within exisitng right of way

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Pharr, McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$5,660,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Weslaco North Lateral BP 10

FMP ID: 153000056

FMP Description

6 miles of channel improvements widening of Weslaco North Lateral within existing right of way.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Weslaco**
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $4,560,000
Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Hidalgo County Drainage District #1
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alternate Rado Drain BP 11

FMP ID: 153000057

FMP Description

2.1 miles of channel improvements includes widening the Alternate Rado Drain within existing right of way.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$5,440,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Mission-McAllen Drain BP 12

FMP ID: 153000058

FMP Description

5.3 miles of channel improvements includes widening the Mission-McAllen drain within exisitng right of way. Install 7955-linear feet of reinforced concrete box culvert improvements from Business 83 Street to the PSJA drain. Install curb inlet capture systems approximately every 500-feet across subdivisions and repave roadways.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Mission, McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$21,110,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Mission Inlet BP 13

FMP ID: 153000059

FMP Description

Channel improvements including widening the pilot channel of the Mission Inlet and improvements at the outfall structure to IBWC Floodway

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Mission**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No ☐ Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $7,480,000 Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start: Entity with Oversight Hidalgo County Drainage District #1
Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

West Main Drain III Extension BP 14

FMP ID: 153000060

FMP Description

14 miles of channel improvements include constructing and wideing the West Main Drain.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $17,480,000
Study Sponsor: Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Hidalgo County Drainage District #1
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

PSJA Drain BP 16

FMP ID: 153000061

FMP Description

2 miles of chanlle improvements includes widening the PSJA Drain within existing Right of Way, from Nolana to I2.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Pharr, San Juan, Alamo**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$1,090,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alamo Expressway Drain Phase 2 BP 21

FMP ID: 153000062

FMP Description

1.9 miles of channel improvements include excavation of the Alamo Expressway Drain and roadway crossing upgrades from I2 to Cesar Chavez Drain.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Alamo**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Population at Risk
Roadways flooded Yes ✓ No ☐
Critical Facilities Impacted Yes ☐ No ☐
Notes:

Frequency of flooding:
# of structures inundated
Miles inundated?
Agricultural Land impacted Yes ☐ No ☐

Project Costs

Total Cost: $1,470,000
Non-reoccurring Non-capital Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Hidalgo County Drainage District #1
These are one-time costs for program development, education campaign, and non-engineering study costs.
Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Parker Drain Widening (Tio Cano Lake Overflow)

FMP ID: 153000063

FMP Description

Parker Drain Widening (Tio Cano Lake Overflow)

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	-
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$ 14,046,600	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Main Drain Widening - switch to Parker Regional Detention Facility

FMP ID: 153000064

FMP Description

Regional Detention Facility to help alleviate runoff

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	-
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$ 6,563,125	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Ovalle Lateral Connectivity

FMP ID: 153000065

FMP Description

Ovalle Lateral Connectivity

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	-
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $ 1,385,938
Study Sponsor: Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Cameron County Drainage District No. 6
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Main Drain regional detention facility

FMP ID: 153000066

FMP Description

Main Drain regional detention facility

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	-
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $3,325,625
Study Sponsor: Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Cameron County Drainage District No. 6
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Floodway Pump Stations (Cantu, Main, Parker, Thompson & Adams Gardens)

FMP ID: 153000067

FMP Description

Floodway Pump Stations (Cantu, Main, Parker, Thompson & Adams Gardens)

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	-
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$2,243,868	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Clark Road Ditch Improvements

FMP ID: 153000068

FMP Description

Clark Road Ditch Improvements

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	-
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $1,352,813
Study Sponsor: Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Cameron County Drainage District No. 6
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Southwest Ditch Widening

FMP ID: 153000069

FMP Description

Southwest Ditch Widening

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	-
County/ Counties	**Cameron**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$1,010,000	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

North McAllen Detention Pond

FMP ID: 153000070

FMP Description

North McAllen Detention Pond

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $62,296,000
Study Sponsor: City of McAllen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight City of McAllen
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Deta Regional Water Management Bond Project 1

FMP ID: 153000071

FMP Description

Regional Continuation of improvements to the 200+ acre off-line detention pond near Mile 17 North and Uncle Peters Road to mitigate flooding up and downsteam of the Main Floodway channel.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Edinburg**
County/ Counties	**Hidalgo**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$15,000,000	Study Sponsor:	Hidalgo County Drainage District #1
Non-reoccurring Non-capital Cost (include in Total above):	*These are one-time costs for program development, education campaign, and non-engineering study costs.*		
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District #1

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Hidalgo County Precinct 1 - Floodway Pumps

FMP ID: 153000072

FMP Description

Repair and replacement of pumps along the floodway at Mile 12 1/3, Mile 14 1/2 and Mile 17 1/2.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $5,000,000
Study Sponsor: Hidalgo County Precinct 1
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Hidalgo County Precinct 1
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

13th Street Regional Detention Facility

FMP ID: 153000073

FMP Description

13th Street Regional Detention Facility

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Harlingen**
County/ Counties	**Cameron**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$22,700,000	Study Sponsor:	Harlingen
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Harlingen
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

3rd Street Regional Detention Facility

FMP ID: 153000074

FMP Description

3rd Street Regional Detention Facility

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Harlingen**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $15,000,000
Study Sponsor: Harlingen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Harlingen
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

System 32 Regional Detention Facility

FMP ID: 153000075

FMP Description

System 32 Regional Detention Facility

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Harlingen**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $1,800,000
Study Sponsor: Harlingen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Harlingen
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Wilson-Morgan Regional Detention Facility

FMP ID: 153000076

FMP Description

Wilson-Morgan Regional Detention Facility

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Harlingen**
County/ Counties	**Cameron**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $8,600,000
Study Sponsor: Harlingen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Harlingen
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Jefferson Regional Detention Facility

FMP ID: 153000077

FMP Description

Jefferson Regional Detention Facility

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Harlingen**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $15,000,000
Study Sponsor: Harlingen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Harlingen
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

West Street 10x10 Box Culvert

FMP ID: 153000078

FMP Description

West Street 10x10 Box Culvert

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Harlingen**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No ☐ Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $22,000,000 Study Sponsor: Harlingen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start: Entity with Oversight Harlingen
Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Joint Use Irrigation Canal No. 1

FMP ID: 153000079

FMP Description

Joint Use Irrigation Canal No. 1

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Harlingen**
County/ Counties	**Cameron**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $15,800,000
Study Sponsor: Harlingen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Harlingen
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

System 23 Storm Sewer Drainage Improvements

FMP ID: 153000080

FMP Description

System 23 Storm Sewer Drainage Improvements

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Harlingen**
County/ Counties	**Cameron**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$1,800,000	Study Sponsor:	Harlingen
Non-reoccurring Non-capital Cost (include in Total above):	*These are one-time costs for program development, education campaign, and non-engineering study costs.*		
Estimated year to start:		Entity with Oversight	Harlingen

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

System 23 Regional Detention Facility

FMP ID: 153000081

FMP Description

System 23 Regional Detention Facility

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Harlingen**
County/ Counties	**Cameron**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $1,800,000
Study Sponsor: Harlingen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight Harlingen
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alt_West_107

FMP ID: 153000082

FMP Description

Alt_West_107

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐
Frequency of flooding:
Population at Risk
# of structures inundated
Roadways flooded Yes ✓ No ☐
Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐
Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $35,336,000
Study Sponsor: McAllen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start:
Entity with Oversight McAllen
Time to complete?
Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alt_RetireeHeaven

FMP ID: 153000083

FMP Description

Alt_RetireeHeaven_S10th

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No ☐ Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $4,799,000 Study Sponsor: McAllen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start: Entity with Oversight McAllen
Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Alt_MilitaryHighway

FMP ID: 153000084

FMP Description

Alt_MilitaryHighway

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency of flooding:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No ☐ Miles inundated?
Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐
Notes:

Project Costs

Total Cost: $8,629,000 Study Sponsor: McAllen
Non-reoccurring Non-capital Cost (include in Total above): *These are one-time costs for program development, education campaign, and non-engineering study costs.*
Estimated year to start: Entity with Oversight McAllen
Time to complete? Included in a Hazard Mitigation Action Plan or other plan? Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Port Isabel to Brownsville FIF - Project 1A North Main Drain and Imapala Ditch

FMP ID: 153000085

FMP Description

Channel, culvert road crossing, and pump station improvements on North Main Drain and Impala Ditch between International Blvd and the Impala Pump Station.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Brownsville**
County/ Counties	**Cameron**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$46,976,000	Study Sponsor:	City of Brownsville
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Brownsville

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Port Isabel to Brownsville FIF - Project 1B North Main Drain and Four Corners

FMP ID: 153000086

FMP Description

Channel and culvert improvements along with one detention pond on North Main Drain between Rockwell Dr and Boca Chica Blvd

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Brownsville**
County/ Counties	**Cameron**
HUC 8	**12110207, 12110258**
HUC 12	**121102080100, 121102080300, 130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$33,318,000	Study Sponsor:	City of Brownsville
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Brownsville

FMP

Flood Mitigation Project
Fact Sheet

Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000087

Port Isabel to Brownsville FIF - Project 2
Cameron County Ditch 1 at Confluence

FMP Description

Five large detention ponds on Cameron County Ditch 1 (CCD1) between Paredes Ln and Ruben Torress Blvd along with improvements to a culvert crossing on the CCD1 tributary.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Brownsville**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$99,275,000	Study Sponsor:	City of Brownsville
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Brownsville
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000088

Port Isabel to Brownsville FIF - Project 3
Cameron County Ditch 1 at Cameron Park

FMP Description

Five extreme event storm sewer and overflow routing improvements for the Cameron Park neighborhood along Avenida Florencia.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Brownsville**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$1,569,000	Study Sponsor:	City of Brownsville
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Brownsville
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000089

Port Isabel to Brownsville FIF - Project 4 Town Resaca at West 5th Street

FMP Description

Storm sewer improvements near Palm Blvd, W 5th Street, Ebony St, and Ramireno Ln. along with a detention pond.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Brownsville**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$34,077,000	Study Sponsor:	City of Brownsville
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Brownsville
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000090

Port Isabel to Brownsville FIF - Project 5
Cameron County Ditch 1 at Golf Center

FMP Description

Channel and roadway crossing improvements on Cameron County Ditch 1 between Pablo Kisel Blvd and Dana Ave. Also incldes improvements to a man-made lake spillway andconversion of the city-owned golf course into a multi-use detention pond.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Brownsville**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$45,497,000	Study Sponsor:	City of Brownsville
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Brownsville
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000091

Port Isabel to Brownsville FIF - Project 6 Los Fresnos at East 10th St.

FMP Description

Four extreme event storm sewer and overflow routing improvements on E 8th, E 9th, and E 10th streets along with a detention pond.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Los Fresnos**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$4,419,000	Study Sponsor:	City of Los Fresnos
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Los Fresnos
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000092

Port Isabel to Brownsville FIF - Project 7
Cameron County Ditch 1 at Hwy 69E

FMP Description

Channel and roadway crossing improvements on Cameron County Ditch 1 between Laredo Rd and Pablo Kisel Blvd

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Brownsville**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$7,691,000	Study Sponsor:	City of Brownsville
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Brownsville
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000093

Port Isabel to Brownsville FIF - Project 9 North Main Drain and Hwy 69E

FMP Description

Detention pond and storm sewer improvements on North Main Drain, west of Price Road and 69E.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Brownsville**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$32,468,000	Study Sponsor:	City of Brownsville
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Brownsville
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000094

Port Isabel to Brownsville FIF - Project 11A Los Fresnos West Ocean Blvd

FMP Description

Channel and culvert crossing improvements along with a detention pond near TX-100 and Orive Blvd

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Los Fresnos**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$29,326,000	Study Sponsor:	City of Los Fresnos
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Los Fresnos
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000095

Port Isabel to Brownsville FIF - Project 11B Los Fresnos West Ocean Blvd

FMP Description

Channel and culvert crossing improvements along with a detention pond near TX-100 and Evergreen St

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Los Fresnos**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$16,965,000	Study Sponsor:	City of Los Fresnos
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Los Fresnos
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000096

Port Isabel to Brownsville FIF - Project 12
Town Resaca at Washington Park

FMP Description

Storm sewer improvements on E Madison St, E 7th St, and E Jackson St

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Brownsville**
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$8,685,000	Study Sponsor:	City of Brownsville
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Brownsville
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000097

Cameron County Drainage District No. 5 Enhanced Flood Warning System

FMP Description

Upgrade 10 existing river gauges (dual radar/ pressure trans.) & tipping bucket. Install 7 new stream gauges. 5 of the seven new would have tipping buckets and 2 would have weighing rain gauges

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$180,000	Study Sponsor:	Cameron County Drainage District No. 5
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 5
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000098

Delta Storm_La Villa Improvements

FMP Description

Improvements to the culvert crossings in Edcouch and Elsa, channel widening and improvements, and addition of retention facilities.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$13,100,000	Study Sponsor:	Hidalgo County Drainage District No. 1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District No. 1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000099

Delta Storm_Edcouch Elsa Improvements

FMP Description

Channel widening and detention facilities in Edcouch and Elsa

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$10,560,000	Study Sponsor:	Hidalgo County Drainage District No. 1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District No. 1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000100

Northeast Pharr Mitigation Project

FMP Description

Install 7955-linear feet of reinforced concrete box culvert improvements from Business 83 Street to the PSJA drain. Install curb inlet capture systems approximately every 500-feet across subdivisions and repave roadways.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Pharr**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$15,550,200	Study Sponsor:	City of Pharr
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Pharr
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000101

Olmito Townsite Flood Mitigation Project

FMP Description

Install storm sewer improvements across US77 to connect to outfall ditch to the east of the Olmito Townsite.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Cameron**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$5,605,079	Study Sponsor:	Cameron County
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000102

Alton MDP - North Stewart Boulevard Alternative 1

FMP Description

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 Subdiv

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Alton**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$23,000,000	Study Sponsor:	City of Alton
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Alton
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated?	Yes ☐ No ✓	Action Plan or other plan? (Potential) Source of Funding	FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000103

Drain C-Right Culvert Improvements

FMP Description

This alternative proposes to add 3 – 72" pipes to the 54" pipe existing along Paso Real Highway (formerly Helen Moore Road) from south of the railroad to north of Business 77. Rather than use multiple pipes a single 10'x10' box culvert is proposed with 3 – 72" CMPs under the railroad track.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Cameron**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$8,437,502	Study Sponsor:	Cameron County Drainage District No. 3
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 3
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Drain F-23 Culvert Improvements

FMP ID: 153000104

FMP Description

Replace existing 48" RCP at Williams Road and 36" RCP at Irene Street with 6'x6' RCB. See 2010 ESPEY 6.2.7 Alternative 7. page 41

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Cameron**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$3,070,137	Study Sponsor:	Cameron County Drainage District No. 3
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 3
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Drain D Channel Improvements

FMP ID: 153000105

FMP Description

Drain D Channel Improvements

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Cameron**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$3,885,584	Study Sponsor:	Cameron County Drainage District No. 3
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 3
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Zacate Creek Channel Improvements

FMP ID: 153000106

FMP Description

Zacate Creek Channel Improvements.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**Laredo**
County/ Counties	**Webb**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$700,000	Study Sponsor:	City of Laredo
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Laredo
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

McAllen MDP - Study 1 Monte Cristo Hoen Rd Subdivision

FMP ID: 153000107

FMP Description

McAllen MDP - Study 1 Monte Cristo Hoen Rd Subdivision

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$4,799,000	Study Sponsor:	City of McAllen
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of McAllen
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000108

McAllen MDP - Study 2 Shary Rd and 6MI Intersection

FMP Description

McAllen MDP - Study 2 Shary Rd and 6MI Imtersection

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$8,629,000	Study Sponsor:	City of McAllen
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of McAllen
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐

FMP

Flood Mitigation Project
Fact Sheet

Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000109

McAllen MDP - Study 3 SH107 East

FMP Description

McAllen MDP - Study 3 SH107 East

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$15,550,200	Study Sponsor:	City of McAllen
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of McAllen
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000110

McAllen MDP - Study 4 Bentsen Rd

FMP Description

McAllen MDP - Study 4 Betnsen Rd

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities	**McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$4,560,000	Study Sponsor:	City of McAllen
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of McAllen
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

FMP ID: 153000111

Drain J01

FMP Description

The Drain J01 FMP aims to replace the present 24 in RCP with 48 in RCP to divert. The 36 in RCP will be removed/plugged

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**McAllen**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$603,663.00	Study Sponsor:	Hidalgo County Drainage District No. 1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District No. 1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

2023 Bond Project 24 - F-13 F02

FMP ID: 153000112

FMP Description

This project is approximately 4.7 miles of channel improvements includes widening ditches F-13 and F-02 within existing right of way, from Hwy 281 to Floodway Levee.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Hidalgo**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$1,460,000.00	Study Sponsor:	Hidalgo County Drainage District No. 1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District No. 1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

2018 Bond Project 34 South Lateral

FMP ID: 153000113

FMP Description

This project proposes three detention pond on the both side of East Las Milpas Rd. The proposed project also includes channel widening. The project cost is approximately $4,538,85 2which resulted in a benefit cost ratio of 0.5.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Las Milpas**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$4,538,852.00	Study Sponsor:	Hidalgo County Drainage District No. 1
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Hidalgo County Drainage District No. 1
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Downtown Pharr Alternative

FMP ID: 153000114

FMP Description

The proposed improvements include channel widening, benching, clearing, longitudinal grading and will require limited grading outside of the existing R.O.W.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	**Pharr**
County/ Counties	**Hidalgo**
HUC 8	**12110207,** **12110258**
HUC 12	**121102080100,** **121102080300,** **130900020311**
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$22,210,000.00	Study Sponsor:	City of Pharr
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	City of Pharr
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Floodway Pump Stations (Main)

FMP ID: 153000115

FMP Description

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Cameron**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$2,360,700.00	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Floodway Pump Stations (Parker)

FMP ID: 153000116

FMP Description

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Cameron**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$2,360,700.00	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Floodway Pump Stations (Thompson)

FMP ID: 153000117

FMP Description

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Cameron**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$2,360,700.00	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes ☐ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes ☐ No ☐ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes ☐ No ☐ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes ☐ No ☐ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes ☐ No ✓
Has all the ROW been acquired?	Yes ☐ No ☐
Will permits or interlocal agreements be needed for this project?	Yes ☐ No ☐

Related Goals

- ✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- ☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- ☐ Increase the # of communities participating in the National Flood Insurance Program
- ☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- ☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- ☐ Increase participation in the regional flood planning process
- ☐ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- ☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- ☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- ☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- ☐ Increase the # of entities that adopt higher than NFIP-minimum standards
- ☐ Develop and maintain an operational stormwater asset management plan
- ☐ Increase the # of flood gauges (rainfall/stream) in the region
- ☐ Increase the # of entities that have multi-year drainage CIP list
- ☐ Increase the # 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
- ☐ Increase use of nature-based flood risk reduction projects
- ☐ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- ☐ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- ☐ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- ☐ 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

RFPG Recommended

Yes ☐ No ✓

Region 15 Lower Rio Grande Regional Flood Planning Group

FMP

Flood Mitigation Project
Fact Sheet

Floodway Pump Stations (Adams Gardens)

FMP ID: 153000118

FMP Description

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- ☐ No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ☐ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities	
County/ Counties	**Cameron**
HUC 8	**12110207,**
	12110258
HUC 12	**121102080100,**
	121102080300,
	130900020311
Study Area (sq. mi.)	**N/A**

Emergency Need

Yes ✓ No ☐

Known Flood Risk

History of Flooding?	Yes ✓ No ☐	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No ☐	Miles inundated?	
Critical Facilities Impacted	Yes ☐ No ☐	Agricultural Land impacted	Yes ☐ No ☐

Notes:

Project Costs

Total Cost:	$2,360,700.00	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital Cost (include in Total above):		*These are one-time costs for program development, education campaign, and non-engineering study costs.*	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes ✓ No ☐
Funding Dedicated?	Yes ☐ No ✓	(Potential) Source of Funding	FIF, local

FMP

Flood Mitigation Project
Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

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RFPG Recommended

Yes ☐ No ✓