





### 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

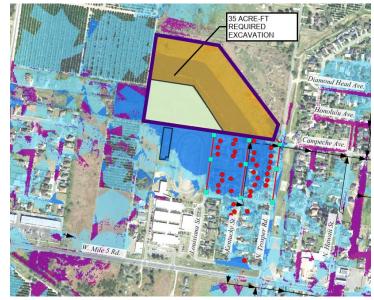
HUC 8 12110207,

12110208

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) N/A



### **Emergency Need**

Yes ✓ No 🗆

### **Known Flood Risk**

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

Notes:

Yes ✓ No □ Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes □ No □

Notes:

### **Project Costs**

Total Cost: \$2,152,656 Study Sponsor: City of Alton

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

Estimated year to start: Entity with Oversight City of Alton

Time to complete? City of Alton

Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

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





### Have the flood risk and flood reduction impacts been evaluated?

Hav	ve 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 ✓
Do	es the project reduce flood risk for the 100-Yr flood event?		Yes □ No □ Unknown ✓
Do	es the Project provide a Water Supply Benefit?		Yes □ No ✓
Has	s all the ROW been acquired?		Yes □ No □
Wil	I permits or interlocal agreements be needed for this project?		Yes □ No □
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		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
□ <b>✓</b>	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 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 acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		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 the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

### **RFPG Recommended**

Yes □ No ✓





### 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

### PROPOSED 54" RCP STORM DRAIN, SIZE MAY CHANGE DEPENDENT ON SIZE OF ANTICIPATED TXDOT SYSTEM ON FM 676. PROPOSED GRATE INLETS PROPOSED GRATE INLETS

### **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  $\square$  No  $\square$  Agricultural Land impacted Yes  $\square$  No  $\square$ 

Notes:

above):

### **Project Costs**

Total Cost: \$387,288 Study Sponsor: City of Alton

Non-reoccurring Non-capital Cost (include in Total 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? Entity with Oversight City of Alton Included in a Hazard Mitigation Yes ✓ No □





Action Plan or other plan?
Funding Dedicated?

Yes □ No ✓ (Potential) Source of Funding FIF, local

i unu	ing Dedicated: 165 🗆 100 🕶 (i oteritial	, 500	arce of Funding Till, local
Hav	e the flood risk and flood reduction imp	oac	ts 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 a	all the ROW been acquired?		Yes □ No □
Will	permits or interlocal agreements be needed for this project?		Yes □ No □
Rela	ited Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical		Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate		region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs Increase the coverage of available flood hazard data by		CIP list Increase the # of entities that integrate National Weather
	completing studies with identified construction projects to	Ш	Service and USGS Texas Water Science Center (TXWSC)
;	address flooding hazards		flood warning system information into their local
	Increase participation in the regional flood planning process		capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water		Develop a regionally coordinated warning and emergency
	reuse applications or as part of a floodplain management program		response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical		Increase the amount of publicly owned land in the region
1	flood risk areas that is reused for a beneficial public use		that can be utilized for future regional stormwater
	Increase outreach and education activities, specifically		infrastructure Increase the proficiency of floodplain managers by
†	targeting municipal floodplain managers, hosted by Region		increasing the # of them that are certified as Certified
•	15 RFPG and available on the website		Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and		Increase participation in the Community Rating System by
	billboards to communicate flood warnings, evacuation		encouraging Region 15 floodplain management programs
	routes, and shelter locations Reduce the # of structures that have been subject to		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance
	repeated flooding events through property buyouts		penalties; and who regulate development in the future
			conditions floodplain

### **RFPG Recommended**

Yes □ No ✓





### 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.)
- 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,

> > 12110210

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) N/A

### PROPOSED DETENTION POND PROPOSED BERM 1,900 LF)

### **Emergency Need**

Yes ✓ No 🗆

### Known Flood Risk

History of Flooding? Yes Population at Risk Roadways flooded

Critical Facilities Impacted Notes:

No □ Yes ✓ Yes 🗆 No □ Agricultural Land impacted

Miles inundated?

Yes □ No □

### **Project Costs**

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

Funding Dedicated?

\$2,817,936

Yes □ No ✓

City of Alton Study Sponsor:

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

engineering study costs.

**Entity with Oversight** City of Alton Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

(Potential) Source of Funding FIF, local





### Have the flood risk and flood reduction impacts been evaluated?

Hav	ve the flood risk and flood reduction impacts been evaluated?		Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?			Yes □ No □ Unknown ✓
Do	es the project have a Benefit Cost Ratio greater than 1?		Yes □ No □ Unknown ✓
Do	es the project reduce flood risk for the 100-Yr flood event?		Yes □ No □ Unknown ✓
Do	es the Project provide a Water Supply Benefit?		Yes □ No ✓
Has	s all the ROW been acquired?		Yes □ No □
Wil	I permits or interlocal agreements be needed for this project?		Yes □ No □
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities		Develop and maintain an operational stormwater asset
	within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		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 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 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 acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		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 the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
OFI	OG Recommended		

Yes □ No ✓





### 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.)
- 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,

12110211

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) 0.38

# 

### **Emergency Need**

Yes ✓ No □

### **Known Flood Risk**

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

No □

No □

No □

Agricultural Land impacted

Yes □

No □

### **Project Costs**

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



Yes □ No ✓



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





### 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

# PROPOSED CHANNEL TOP WIDTH-28 DOWNANTANED OWNANTANED CHANNEL TOP WIDTH-28 DOWNANTANED CHANNEL TOP WIDTH-28 DOWNANTANED CHANNEL TOP WIDTH-28 DOWNANTANED CHANNEL TOP WIDTH-37 DEPTH-47 DEPTH-47 DEPTH-47 DEPTH-48 D

### **Emergency Need**

Yes ✓ No 🗆

### **Known Flood Risk**

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □

Wiles inundated

Yes □ No □

Notes:

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes □ No □

No □

Notes:

### **Project Costs**

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



RFPG Recommended

Yes □ No ✓



### Flood Mitigation Project Fact Sheet

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





### 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?

Population at Risk

Roadways flooded

Yes ✓ No □

Frequency of flooding:

# of structures inundated

Miles inundated?

Yes □ No □

Agricultural Land impacted Yes □ No □

Declark Co.

Notes:

**Project Costs** 

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

Estimated year to start: Time to complete?

\$1,663,200

Study Sponsor: City of Alton

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

Entity with Oversight City of Alton Included in a Hazard Mitigation Yes ✓ No □



RFPG Recommended

Yes □ No ✓



### Flood Mitigation Project Fact Sheet

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





### 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.)
- 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,

> > 12110214

HUC 12 130800020703,

130800020702

Study Area (sq. mi.)

FIF, local

### **Emergency Need**

Yes ✓ No 🗆

### Known Flood Risk

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

### Project Costs

Notes:

**Total Cost:** \$1,585,584 Study Sponsor: Weslaco Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. Estimated year to start: Entity with Oversight Weslaco Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan? (Potential) Source of Funding

**Funding Dedicated?** Yes □ No ✓



Yes □ No ✓



### 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 guideline	s? 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, evac	·
routes, during and after a flooding event  Reduce the # of newly constructed vulnerable critical facility	standards  ies Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain	management plan
<ul> <li>Increase the # of communities participating in the National Insurance Program</li> </ul>	Flood   Increase the # of flood gauges (rainfall/stream) in the region
<ul> <li>Decrease the average age of FEMA Flood Insurance Rate M used to define SFHAs</li> </ul>	aps   Increase the # of entities that have multi-year drainage CIP list
<ul> <li>Increase the coverage of available flood hazard data by cor studies with identified construction projects to address flood hazards</li> </ul>	
☐ Increase participation in the regional flood planning process	s Increase use of nature-based flood risk reduction projects
<ul> <li>Provide regional detention that could be used for water rel applications or as part of a floodplain management program</li> </ul>	
☐ Increase acreage of publicly protected open space in critical	Il flood   Increase the amount of publicly owned land in the region that
risk areas that is reused for a beneficial public use  Increase outreach and education activities, specifically targ	can be utilized for future regional stormwater infrastructure eting   Increase the proficiency of floodplain managers by increasing
municipal floodplain managers, hosted by Region 15 RFPG	
available on the website	(CFM) with the Texas Floodplain Management Association
<ul> <li>Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation rous shelter locations</li> </ul>	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
<ul> <li>Reduce the # of structures that have been subject to repea flooding events through property buyouts</li> </ul>	
RFPG Recommended	





### **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.)
  - 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,

12110217

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

# POLK POLK BELL SAMHOUSTON A SAMHOUSTON

# of structures inundated Miles inundated?

Action Plan or other plan?

Agricultural Land impacted Yes □ No □

### **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:

### **Project Costs**

**Total Cost:** \$45,241,092 Study Sponsor: City of Pharr These are one-time costs for program development, education campaign, and non-Non-reoccurring Non-capital engineering study costs. Cost (include in Total above): Estimated year to start: 2022 **Entity with Oversight** City of Pharr Time to complete? 2024 Included in a Hazard Mitigation Yes ✓ No □



Yes □ No ✓



**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? Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown ✓ Yes □ No □ Unknown ✓ Does the project have a Benefit Cost Ratio greater than 1? 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 Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to shelter locations incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended





### 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? No □ Population at Risk

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:

# of structures inundated Miles inundated? Agricultural Land impacted Yes □ No □

### Project Costs

**Total Cost:** \$1,628,000 Study Sponsor: City of Pharr

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

Estimated year to start: 2022

City of Pharr **Entity with Oversight** Time to complete? Included in a Hazard Mitigation 2024 Yes ✓ No □ Action Plan or other plan?

(Potential) Source of Funding Funding Dedicated? Yes □ No ✓ 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	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	<ul> <li>Develop and maintain an operational stormwater asset management plan</li> </ul>
☐ Increase the # of communities participating in the National Flood Insurance Program	☐ Increase the # of flood gauges (rainfall/stream) in the region
<ul> <li>Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs</li> </ul>	☐ Increase the # of entities that have multi-year drainage CIP list
Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	<ul> <li>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</li> </ul>
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
<ul> <li>Provide regional detention that could be used for water reuse applications or as part of a floodplain management program</li> </ul>	<ul> <li>Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger</li> </ul>
<ul> <li>Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use</li> </ul>	<ul> <li>Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure</li> </ul>
<ul> <li>Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and</li> </ul>	<ul> <li>Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers</li> </ul>
available on the website	(CFM) with the Texas Floodplain Management Association
<ul> <li>Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations</li> </ul>	<ul> <li>Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated draining foct to implement future EMEs</li> </ul>
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
REPG Recommended	

### RFPG Recommended

Yes □ No ✓





### 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
These are one-time costs for program development, education campaign, and

capital Cost (include in Total non-engineering study costs.

above):

Estimated year to start: 2022 Entity with Oversight City of Pharr Time to complete? 2024 Included in a Hazard Mitigation Yes ✓ No □



RFPG Recommended

Yes □ No ✓



### Flood Mitigation Project Fact Sheet

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





### 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

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### **Emergency Need**

Yes ✓ No 🗆

### **Known Flood Risk**

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

Notes:

Yes ✓ No□

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted

Yes □ No□

Notes:

### **Project Costs**

**Total Cost:** \$8,195,000 Study Sponsor: City of Pharr Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): 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 🗆 Action Plan or other plan?



RFPG Recommended

Yes ✓ No 🗆



**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? Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown ✓ Yes □ No □ Unknown ✓ Does the project have a Benefit Cost Ratio greater than 1? 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 Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to shelter locations incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain





### 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,

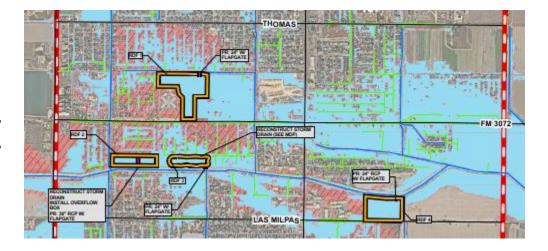
12110227

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) 0.07



### **Emergency Need**

Yes ✓ No 🗆

### Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes □ No □

Notes:

### **Project Costs**

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



Yes ✓ No 🗆



Fact Sheet

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

			·
Hav	ve the flood risk and flood reduction impacts k	oee	n evaluated?
Hav	re the flood risk and flood reduction impacts been evaluated?		Yes □ No ✓
Doe	es the project have any negative effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Doe	es the project have a Benefit Cost Ratio greater than 1?		Yes □ No □ Unknown ✓
Doe	es the project reduce flood risk for the 100-Yr flood event?		Yes □ No □ Unknown ✓
Doe	es the Project provide a Water Supply Benefit?		Yes □ No ✓
Has	all the ROW been acquired?		Yes □ No □
Wil	permits or interlocal agreements be needed for this project?		Yes □ No □
R△l	ated Goals		
<b>√</b>	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		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 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 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 acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and		(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
	shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





### 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

### SIOUX

### **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:			

Yes □ No ✓

### **Project Costs**

Funding Dedicated?

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

(Potential) Source of Funding



Yes □ No ✓



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





### 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**

Estimated year to start: Time to complete?

Total Cost: \$4,775,000 Study Sponsor: City of Weslaco
Non-reoccurring Noncapital Cost (include in Total above): \$4,775,000 Study Sponsor: City of Weslaco

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

Entity with Oversight City of Weslaco Included in a Hazard Mitigation Yes \( \text{No} \)





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

### RFPG Recommended

routes, and shelter locations

billboards to communicate flood warnings, evacuation

Reduce the # of structures that have been subject to

repeated flooding events through property buyouts

Yes □ No ✓

encouraging Region 15 floodplain management programs

to incorporate dedicated drainage fees to implement

penalties; and who regulate development in the future

future FMEs and FMPs; incorporate noncompliance

conditions floodplain





### 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.)
- 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

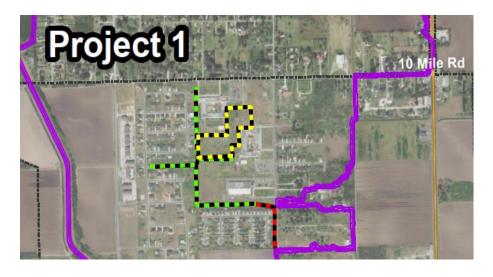
> HUC 8 12110207,

> > 12110230

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A



### **Emergency Need**

Yes ✓ No 🗆

### Known Flood Risk

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

### Project Costs

Total Cost: \$4,441,008 Study Sponsor: City of Weslaco Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. **Entity with Oversight** City of Weslaco Estimated year to start: Time to complete?

Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

(Potential) Source of Funding Funding Dedicated? Yes □ No ✓ 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	□ Increase the # of entities that adopt higher than NFIP-minimum
routes, during and after a flooding event  Reduce the # of newly constructed vulnerable critical facilities	standards  Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain	management plan
<ul> <li>Increase the # of communities participating in the National Flood Insurance Program</li> </ul>	☐ Increase the # of flood gauges (rainfall/stream) in the region
<ul> <li>Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs</li> </ul>	☐ Increase the # of entities that have multi-year drainage CIP list
<ul> <li>Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding</li> </ul>	<ul> <li>Increase the # of entities that integrate National Weather</li> <li>Service and USGS Texas Water Science Center (TXWSC) flood</li> </ul>
hazards	warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
<ul> <li>Provide regional detention that could be used for water reuse applications or as part of a floodplain management program</li> </ul>	<ul> <li>Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide</li> </ul>
applications of as part of a nocapian management program	timely warning of impending flood danger
<ul> <li>Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use</li> </ul>	<ul> <li>Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure</li> </ul>
<ul> <li>Increase outreach and education activities, specifically targeting</li> </ul>	Increase the proficiency of floodplain managers by increasing
municipal floodplain managers, hosted by Region 15 RFPG and	the # of them that are certified as Certified Floodplain Managers
available on the website  Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association  Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations	incorporate dedicated drainage fees to implement future FMEs
<ul> <li>Reduce the # of structures that have been subject to repeated flooding events through property buyouts</li> </ul>	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
DEDC Pocommonded	

### KFPG Recommended

Yes □ No ✓





### 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.)

### **Emergency Need**

Yes ✓ No 🗆

### **Known Flood Risk**

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

Notes:

### **Project Costs**

**Total Cost:** \$93,808 Study Sponsor: City of Weslaco

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

Yes □ No □

Entity with Oversight City of Weslaco Included in a Hazard Mitigation Yes ✓ No □

capital Cost (include in Total above): Estimated year to start: Time to complete?

Non-reoccurring Non-



Yes □ No ✓



### Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes  $\ \square$  No  $\checkmark$  (Potential) Source of Funding FIF, local

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





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

FMP ID: 153000017

No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)

### **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.)
  - 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? Frequency of flooding: No □ Population at Risk # of structures inundated Roadways flooded Miles inundated? Yes ✓ No □ Agricultural Land impacted Critical Facilities Impacted Yes □ No □ Yes □ No □ Notes:

### **Project Costs**

**Total Cost:** \$43,984,512 City of Weslaco Study Sponsor: Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above): Estimated year to start: Entity with Oversight City of Weslaco Time to complete? Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

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



Yes □ No ✓



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

### Page 2 of 2





### 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.)
- 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,

> > 12110233

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A



### **Emergency Need**

Yes ✓ No □

### Known Flood Risk

History of Flooding?

Population at Risk Roadways flooded

Critical Facilities Impacted

Notes:

No □

No □

Yes □ No □

# of structures inundated Miles inundated?

Agricultural Land impacted

Yes □ No □

### Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

**Funding Dedicated?** 

\$37,305,840

Yes □ No ✓

Study Sponsor:

City of Weslaco

City of Weslaco

Yes ✓ No □

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

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





## 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

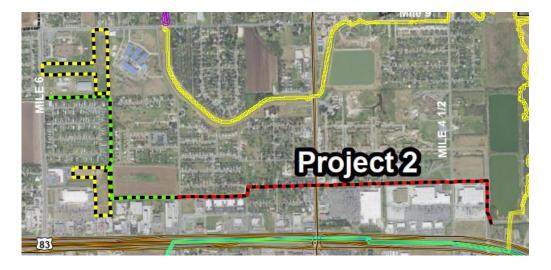
> HUC 8 12110207,

> > 12110234

121102080100, HUC 12

121102080300

Study Area (sq. mi.) N/A



## **Emergency Need**

Yes ✓ No 🗆

### Known Flood Risk

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

## **Project Costs**

Total Cost: \$11,099,088 Study Sponsor: City of Weslaco Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. **Entity with Oversight** City of Weslaco Estimated year to start: Time to complete?

Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

(Potential) Source of Funding Funding Dedicated? Yes □ No ✓ 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	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	<ul> <li>Develop and maintain an operational stormwater asset</li> </ul>
within the existing and future 100-YR floodplain  Increase the # of communities participating in the National Flood Insurance Program	management plan  Increase the # of flood gauges (rainfall/stream) in the region
<ul> <li>Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs</li> </ul>	☐ Increase the # of entities that have multi-year drainage CIP list
<ul> <li>Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards</li> </ul>	<ul> <li>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</li> </ul>
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
<ul> <li>Provide regional detention that could be used for water reuse applications or as part of a floodplain management program</li> </ul>	<ul> <li>Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger</li> </ul>
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	<ul> <li>Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure</li> </ul>
☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website  ☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and	(CFM) with the Texas Floodplain Management Association  ☐ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
<ul> <li>shelter locations</li> <li>Reduce the # of structures that have been subject to repeated flooding events through property buyouts</li> </ul>	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	, , , , , , , , , , , , , , , , , , , ,





## Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & FN 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?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Ves ✓ No □

No □

Agricultural Land impacted

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted

Yes □ No □

Notes:

## **Project Costs**

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





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





## 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.)
- 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,

> > 12110280

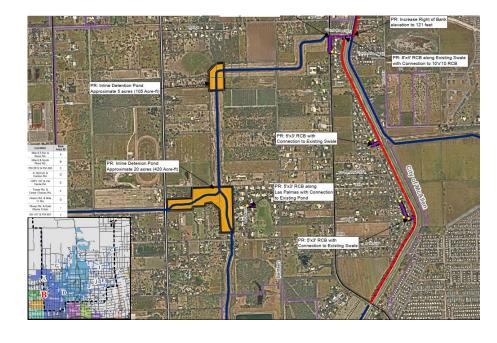
HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A



## **Emergency Need**

Yes ✓ No 🗆

## Known Flood Risk

History of Flooding? 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:** Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

\$27,175,500 Hidalgo County Precinct 4 Study Sponsor:

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 □

Action Plan or other plan?





**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? Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown ✓ Yes □ No □ Unknown ✓ Does the project have a Benefit Cost Ratio greater than 1? 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 Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to shelter locations incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended





## 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.)
- 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,

> > 12110281

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

## **Emergency Need**

Yes ✓ No 🗆

## Known Flood Risk

History of Flooding? 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:** Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start:

\$7,887,000 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





			•	act or loc
Time to complete?			Hazard Mitigation Yes ✓ No □ an or other plan?	
Funding Dedicated?	Yes □ No ✓		Source of Funding FIF, local	
Have the flood risk and flo Have the flood risk and flood reduction		•	n evaluated? Yes □ No ✓	
Does the project have any negative ef	fects, per TWDB guideline	s?	Yes □ No □ Unknown ✓	
Does the project have a Benefit Cost F	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 Sup	ply 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				
<ul> <li>Increase community access route routes, during and after a floodir</li> </ul>		uation 🗆	Increase the # of entities that adopt higher than NFIP standards	-minimum
Reduce the # of newly constructed within the existing and future 10	ed vulnerable critical facili 0-YR floodplain		Develop and maintain an operational stormwater ass management plan	
<ul> <li>Increase the # of communities pa Insurance Program</li> </ul>	articipating in the National	Flood	Increase the # of flood gauges (rainfall/stream) in the	region
<ul> <li>Decrease the average age of FEN used to define SFHAs</li> </ul>	1A Flood Insurance Rate M	laps 🗆	Increase the # of entities that have multi-year drainage	ge CIP list
<ul> <li>Increase the coverage of available studies with identified construction hazards</li> </ul>			Increase the # of entities that integrate National Wea Service and USGS Texas Water Science Center (TXWS warning system information into their local capabiliti disseminate warnings	C) flood
<ul> <li>☐ Increase participation in the regional detention that capplications or as part of a flood</li> </ul>	ould be used for water re	use $\square$	Increase use of nature-based flood risk reduction pro Develop a regionally coordinated warning and emerg response program that can detect the flood threat ar timely warning of impending flood danger	ency
<ul> <li>Increase acreage of publicly prot risk areas that is reused for a ber</li> </ul>		al flood 🗆	Increase the amount of publicly owned land in the re can be utilized for future regional stormwater infrast	ructure
<ul> <li>Increase outreach and education municipal floodplain managers, h available on the website</li> </ul>			Increase the proficiency of floodplain managers by in the # of them that are certified as Certified Floodplain (CFM) with the Texas Floodplain Management Associ	n Managers
<ul> <li>Increase the use reverse 911, TV billboards to communicate flood</li> </ul>		tes, and	Increase participation in the Community Rating Syste encouraging Region 15 floodplain management programmers dedicated drainage fees to implement fu	m by rams to
shelter locations  Reduce the # of structures that h flooding events through property		ted	and FMPs; incorporate noncompliance penalties; and regulate development in the future conditions floods	d who
RFPG Recommended				
Yes □ No ✓				





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

### FMP ID: 153000023

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

## **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.)
  - Nature Based (Structural) Projects (wetlands, bioswales, river Infrastructure restorations, etc.)

Project Area

City/ Cities

County/ Counties Hidalgo

> 12110207, HUC 8

> > 12110282

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

## **Emergency Need**

Yes ✓ No 🗆

## Known Flood Risk

History of Flooding? No □ Population at Risk Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Agricultural Land impacted Yes □ No □

## Project Costs

Notes:

**Total Cost:** Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

\$6,358,000 Hidalgo County Precinct 4 Study Sponsor:

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 □





Action Plan or other plan?

Funding Dedicated? Yes	No ✓	(Potential) Source of Funding FIF, local	
Have the flood risk and flood red	duction imp	acts been evaluated?	
Have the flood risk and flood reduction impacts		Yes □ No ✓	
Does the project have any negative effects, per	TWDB guidelines?	Yes □ No □ Unknown ✓	
Does the project have a Benefit Cost Ratio great	er than 1?	Yes □ No □ Unknown ✓	
Does the project reduce flood risk for the 100-Ye	r flood event?	Yes □ No □ Unknown ✓	
Does the Project provide a Water Supply Benefi	t?	Yes □ No ✓	
Has all the ROW been acquired?		Yes □ No □	
Will permits or interlocal agreements be needed	d for this project?	Yes □ No □	
Related Goals			
<ul> <li>Increase community access routes to critical routes, during and after a flooding event</li> </ul>	al facilities, evacua	tion   Increase the # of entities that adopt higher than NFI standards	P-minimum
☐ Reduce the # of newly constructed vulnera		S Develop and maintain an operational stormwater as	sset
within the existing and future 100-YR flood Increase the # of communities participating Insurance Program		management plan ood Increase the # of flood gauges (rainfall/stream) in th	ie region
<ul> <li>Decrease the average age of FEMA Flood Ir used to define SFHAs</li> </ul>	nsurance Rate Map	Increase the # of entities that have multi-year drain.	age CIP list
<ul> <li>Increase the coverage of available flood ha studies with identified construction project hazards</li> </ul>			'SC) flood
☐ Increase participation in the regional flood		<ul> <li>Increase use of nature-based flood risk reduction pr</li> </ul>	
<ul> <li>Provide regional detention that could be us applications or as part of a floodplain mana</li> </ul>		<ul> <li>Develop a regionally coordinated warning and emer response program that can detect the flood threat a timely warning of impending flood danger</li> </ul>	
<ul> <li>Increase acreage of publicly protected oper risk areas that is reused for a beneficial pub</li> </ul>			
<ul> <li>Increase outreach and education activities, municipal floodplain managers, hosted by F</li> </ul>	specifically target	ing Increase the proficiency of floodplain managers by i d the # of them that are certified as Certified Floodpla	ncreasing ain Managers
<ul> <li>available on the website</li> <li>Increase the use reverse 911, TV, radio, soo billboards to communicate flood warnings, shelter locations</li> </ul>		(CFM) with the Texas Floodplain Management Assorting Increase participation in the Community Rating Systems, and encouraging Region 15 floodplain management projections incorporate dedicated drainage fees to implement f	em by grams to
Reduce the # of structures that have been s flooding events through property buyouts	subject to repeate		nd who
RFPG Recommended			
Yes □ No ✓			





## 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.)
  - Nature Based (Structural) Projects (wetlands, bioswales, river ✓ Infrrestorations, 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,

12110283

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

# PR: Open Channel with Connection to Existing Schulario Prain PR: 39\* DIA RCP Storm Drain System along Occurry Road 2332 with grate inlets connecting to Existing HCDD1 Schulario Prain PR: 342\* RCB Storm Drain system along Occurry Road 2332 with grate inlets connecting to Existing HCDD1 Schulario Prain PR: 342\* RCB Storm Drain system along Occurry Road 2333 with grate inlets connecting to Existing HCDD1 Schulario Prain PR: 342\* RCB Storm Drain system along Occurry Road 2333 with grate inlets connecting to Existing HCDD1 Schulario Prain PR: 342\* RCB Storm Drain system along Occurry Road 2331 with grate inlets connecting of Existing HCDD1 Schulario Prain PR: 542\* RCB Storm Drain system along Occurry Road 2331 with grate inlets connecting of Existing HCDD1 Schulario Prain Ditch Improvements (Occurry Road 2331 with grate inlets connecting of Existing HCDD1 Schulario Prain Ditch Improvements (Occurry Road 2331) PR: 542\* RCB Storm Drain system along Occurry Road 2331 with grate inlets connecting of Existing HCDD1 Schulario Prain Ditch Improvements (Occurry Road 2331) PR: 542\* RCB Storm Drain System along Occurry Road 2331 with grate inlets connecting of Existing HCDD1 Schulario Prain Ditch Improvements (Occurry Road 2331) PR: 542\* RCB Storm Drain System along Occurry Road 2331 with grate inlets connecting of Existing HCDD1 Schulario Prain Ditch Improvements (Occurry Road 2331) PR: 542\* RCB Storm Drain System along Occurry Road 2331 with grate inlets connecting of Existing HCDD1 Schulario Prain Ditch Improvements (Occurry Road 2331) PR: 542\* RCB Storm Drain System along Occurry Road 2331 with grate inlets connecting of Existing HCDD1 Schulario Prain Ditch Improvements (Occurry Road 2331) PR: 542\* RCB Storm Drain System along Occurry Road 2331 with grate inlets connecting of Existing HCDD1 Schulario Prain Drain Dra

## **Emergency Need**

Yes ✓ No 🗆

### **Known Flood Risk**

History of Flooding? Yes ✓ Population at Risk

Roadways flooded
Critical Facilities Impacted

Critical Facilities Impacted

# of structures inundated
Yes ✓ No □ Miles inundated?

Yes  $\ \square$  No  $\ \square$  Agricultural Land impacted Yes  $\ \square$  No  $\ \square$ 

Notes:

## **Project Costs**

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? \$4,983,000 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 □



Yes □ No 🗸

Funding Dedicated?

Yes □ No 🗸



Action Plan or other plan?
(Potential) Source of Funding FIF, local

Have the flood risk and flood reduction impacts	
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	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	<ul> <li>Develop and maintain an operational stormwater asset management plan</li> </ul>
☐ Increase the # of communities participating in the National Flood Insurance Program	☐ Increase the # of flood gauges (rainfall/stream) in the region
<ul> <li>Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs</li> </ul>	☐ Increase the # of entities that have multi-year drainage CIP list
<ul> <li>Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards</li> </ul>	<ul> <li>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</li> </ul>
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
<ul> <li>Provide regional detention that could be used for water reuse applications or as part of a floodplain management program</li> </ul>	<ul> <li>Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger</li> </ul>
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	<ul> <li>Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure</li> </ul>
<ul> <li>Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website</li> </ul>	<ul> <li>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</li> </ul>
☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and	<ul> <li>Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to</li> </ul>
shelter locations  Reduce the # of structures that have been subject to repeated flooding events through property buyouts	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
REPG Recommended	





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

## FMP ID: 153000025

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

## **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 Infrastructure
- restorations, etc.)

## Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110284

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

## R: Open Channel Along Existing nents with Connection to xisting Edinburg Stub PR: 4'x3' RCB Connection to Existing HCDD1 Edinburg Stul PR: 36" DIA RCP for Conveying ocal Drainage to Existing HCDD1 Edinburg Stu

## **Emergency Need**

Yes ✓ No 🗆

## Known Flood Risk

History of Flooding? 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:** Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start:

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

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

engineering study costs.

Entity with Oversight Hidalgo County Precinct 4





			1 401 0110
Time to complete?			Hazard Mitigation Yes ✓ No □
Funding Dedicated?	Yes □ No ✓		Source of Funding FIF, local
Have the flood risk and flo Have the flood risk and flood reductio			en evaluated? Yes □ No ✓
Does the project have any negative ef	fects, per TWDB guidelines	s?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost F	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 Sup	ply 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			
<ul> <li>Increase community access route routes, during and after a floodin</li> </ul>		uation 🗆	Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed within the existing and future 100	ed vulnerable critical facilit	ies 🗆	Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities pa Insurance Program	articipating in the National	Flood	Increase the # of flood gauges (rainfall/stream) in the region
<ul> <li>Decrease the average age of FEN used to define SFHAs</li> </ul>	IA Flood Insurance Rate M	aps $\square$	Increase the # of entities that have multi-year drainage CIP list
<ul> <li>Increase the coverage of availabl studies with identified constructi hazards</li> </ul>			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
<ul> <li>Increase participation in the region</li> <li>Provide regional detention that capplications or as part of a flood</li> </ul>	ould be used for water reu	use □	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
<ul> <li>Increase acreage of publicly proterisk areas that is reused for a ben</li> </ul>		I flood	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
<ul> <li>Increase outreach and education municipal floodplain managers, h available on the website</li> </ul>			Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Manager (CFM) with the Texas Floodplain Management Association
<ul> <li>Increase the use reverse 911, TV, billboards to communicate flood</li> </ul>		es, and	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
shelter locations  Reduce the # of structures that h flooding events through property		ted	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





## 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

## PR: Detention Pond (Approx. 10 Acrel 75 Acrel 1) PR: Detention Pond (Approx. 10 Acrel 75 Acrel 1) PR: Open Channel Along County Road 3421 B PR: 36\* DIA RCP to Convey Local Drainage to Proposed Detention Pond With 15 Aug B RES 36\* DIA RCP Along County Road 3421 B RES 36\* DIA

## **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

Notes:

## **Project Costs**

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? \$6,061,000 Study Sponsor: Hidalgo County Precinct 4

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

Yes □ No □

engineering study costs.

Entity with Oversight Hidalgo County Precinct 4

Included in a Hazard Mitigation Yes ✓ No □





Action Plan or other plan?
(Potential) Source of Funding FIF. local

Funding Dedicated?	Yes □ No ✓ (P	otential) So	Source of Funding FIF, local
Have the flood risk and flood	d reduction impac	ts beer	n evaluated?
Have the flood risk and flood reduction im	npacts been evaluated?		Yes □ No ✓
Does the project have any negative effect	s, 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 E	Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreements be r	needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access routes to routes, during and after a flooding ev		on 🗆	Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vi	ulnerable critical facilities		Develop and maintain an operational stormwater asset
within the existing and future 100-YR Increase the # of communities particle Insurance Program		od 🗆	management plan Increase the # of flood gauges (rainfall/stream) in the region
<ul> <li>Decrease the average age of FEMA FI used to define SFHAs</li> </ul>	lood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
<ul> <li>Increase the coverage of available flo studies with identified construction p hazards</li> </ul>			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 participation in the regional			Increase use of nature-based flood risk reduction projects
<ul> <li>Provide regional detention that could applications or as part of a floodplain</li> </ul>			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
<ul> <li>Increase acreage of publicly protecte risk areas that is reused for a benefic</li> </ul>		od 🗆	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
<ul> <li>Increase outreach and education acti municipal floodplain managers, hoste available on the website</li> </ul>		] 🗆	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Manager (CFM) with the Texas Floodplain Management Association
<ul> <li>Increase the use reverse 911, TV, rad billboards to communicate flood war</li> </ul>		nnd 🗆	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations  Reduce the # of structures that have flooding events through property but			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 ✓			





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

FMP ID: 153000027

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

## **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.)
  - 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

# PR: 973' RCB with Sag Inlets North of Mile 19 PR: Datention Pond (3' Flappate Installed) PR: Datention Pond (Approx. 4 acres/16 Acres/t.) PR: Datention Pond (Approx. 4 acres/16 Acres/t.) PR: Datention Pond (Approx. 4 acres/16 Acres/t.) PR: Channel Modifications - Top Evention of Right Bern Increased PR: Datention Pond (Approx. 4 acres/16 Acres/t.) PR: Datention Pond (Approx. 4 acres/t.) PR: Datenti

## **Emergency Need**

Yes ✓ No 🗆

## **Known Flood Risk**

History of Flooding?
Population at Risk
Roadways flooded

Critical Facilities Impacted Notes:

Yes ✓ No □
Yes ✓ No □

No □

Yes

Frequency of flooding:
# of structures inundated
Miles inundated?

Agricultural Land impacted

Agricultural Land impacted Yes □ No □

## **Project Costs**

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: \$5,995,000 Study Sponsor: Hidalgo County Precinct 4

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

Entity with Oversight Hidalgo County Precinct 4





					1 401 01100
Time to complete?			lazard Mitigation \ an or other plan?	Yes ✓ No 🗆	
Funding Dedicated?	Yes □ No ✓			FIF, local	
Have the flood risk and flo		•	n evaluated? Yes □ No ✓		
Does the project have any negative effe	·		Yes □ No □ Ur	ıknown <b>√</b>	
Does the project have a Benefit Cost Ra	,		Yes □ No □ Ur		
Does the project reduce flood risk for the	•		Yes □ No □ Ur		
Does the Project provide a Water Supp			Yes □ No ✓		
Has all the ROW been acquired?			Yes □ No □		
Will permits or interlocal agreements b	e needed for this projec	ct?	Yes □ No □		
Related Goals					
<ul> <li>Increase community access routes routes, during and after a flooding</li> </ul>		cuation $\square$	Increase the # of er standards	ntities that adopt high	er than NFIP-minimum
☐ Reduce the # of newly constructed	l vulnerable critical facil	lities $\square$	Develop and maint	ain an operational sto	rmwater asset
within the existing and future 100.  Increase the # of communities par		al Flood 🗆	management plan Increase the # of flo	ood gauges (rainfall/st	ream) in the region
Insurance Program					
<ul> <li>Decrease the average age of FEMA used to define SFHAs</li> </ul>	A Flood Insurance Rate i	Vlaps □	increase the # of er	itities that have muiti-	-year drainage CIP list
<ul> <li>Increase the coverage of available studies with identified constructio hazards</li> </ul>			Service and USGS T	ntities that integrate Nexas Water Science Co formation into their loons	enter (TXWSC) flood
☐ Increase participation in the region			Increase use of nat	ure-based flood risk re	
<ul> <li>Provide regional detention that co applications or as part of a floodpl</li> </ul>			response program	ly coordinated warnin that can detect the flo mpending flood dange	ood threat and provide
☐ Increase acreage of publicly protective risk areas that is reused for a hope		cal flood $\ \square$	Increase the amou	nt of publicly owned la	and in the region that
risk areas that is reused for a bene Increase outreach and education a municipal floodplain managers, ho	ictivities, specifically tar		Increase the profici	future regional stormv iency of floodplain ma are certified as Certifie	
available on the website				as Floodplain Manage	
<ul> <li>Increase the use reverse 911, TV, I billboards to communicate flood v shelter locations</li> </ul>		utes, and	encouraging Region	ion in the Community n 15 floodplain manag ted drainage fees to ir	
☐ Reduce the # of structures that ha flooding events through property		ated	and FMPs; incorpor	rate noncompliance poent in the future cond	enalties; and who
RFPG Recommended					
Yes □ No ✓					





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

### FMP ID: 153000028

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

## **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.)
  - ✓ Infrastructure
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- **Project Area**

County/ Counties Hidalgo

City/ Cities

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

Notes:

## **Project Costs**

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: \$3,608,000 Study Sponsor: Hidalgo County Precinct 4

These are one-time costs for program development, education campaign, and nonengineering study costs

Yes □ No □

engineering study costs.

Entity with Oversight Hidalgo County Precinct 4





							raci	
Time to complete?	In		azard Mitigatio		✓ No 🗆			
Funding Dedicated? Yes	□ No ✓		in or other plai ource of Fundii		local			
Have the flood risk and flood re	eduction impa	acts beer	n evaluate	ed?				
Have the flood risk and flood reduction impac	•		Yes □ No					
Does the project have any negative effects, pe	er TWDB guidelines?		Yes □ No □	Unkno	own <b>√</b>			
Does the project have a Benefit Cost Ratio gre	eater than 1?		Yes 🗆 No	Unkno	own <b>√</b>			
Does the project reduce flood risk for the 100	-Yr flood event?		Yes 🗆 No	Unkno	own <b>√</b>			
Does the Project provide a Water Supply Bene	efit?		Yes 🗆 No	/				
Has all the ROW been acquired?			Yes 🗆 No					
Will permits or interlocal agreements be need	ded for this project?		Yes □ No □					
Related Goals								
✓ Increase community access routes to crit		ition 🗆	Increase the	# of entiti	es that add	opt higher th	nan NFIP-mir	nimum
routes, during and after a flooding event  Reduce the # of newly constructed vulne		S 🗆	standards Develop and	maintain	an operati	onal stormv	vater asset	
within the existing and future 100-YR floo		lood $\Box$	management		anuana (ra	infall/stroo	m) in the rec	ulon
☐ Increase the # of communities participation Insurance Program	ing in the National Fi	lood 🗆	Increase the	7 OI HOOG	gauges (ra	ıman/strea	n) in the reg	,ION
<ul> <li>Decrease the average age of FEMA Flood used to define SFHAs</li> </ul>	l Insurance Rate Map	os 🗆	Increase the	# of entiti	es that hav	ve multi-yea	r drainage C	IP list
<ul> <li>Increase the coverage of available flood is studies with identified construction projection.</li> </ul>			Increase the F Service and U	ISGS Texa	s Water So	ience Cente	er (TXWSC) fl	ood
hazards			warning syste disseminate v		nation into	their local o	apabilities to	)
☐ Increase participation in the regional floo			Increase use	of nature				
<ul> <li>Provide regional detention that could be applications or as part of a floodplain ma</li> </ul>		e 🗆	Develop a reg	gram that	t can detec	t the flood		
☐ Increase acreage of publicly protected op		lood 🗆	timely warning	amount o	f publicly o	wned land		
risk areas that is reused for a beneficial p Increase outreach and education activitie		ing $\square$	can be utilize Increase the					
municipal floodplain managers, hosted b available on the website	y Region 15 RFPG an	ıd	the # of them (CFM) with th					
☐ Increase the use reverse 911, TV, radio, s			Increase part	icipation	in the Com	munity Rati	ng System b	у
billboards to communicate flood warning shelter locations	gs, evacuation routes	s, and	encouraging lincorporate d					
Reduce the # of structures that have bee flooding events through property buyout		d	and FMPs; incorporate of and FMPs; incorporate of and FMPs; incorporate of an and FMPs; incorporate of an another transfer of the another transfer of an another transfer of the another transfer of t	corporate	noncomp	liance penal	ties; and wh	10
RFPG Recommended			-	•			·	
Yes □ No ✓								





## 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

# Replace Existing Culvert with Proposed 8'x4' RCB Proposed Channel Widening

## Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes  $\square$  No  $\square$ 

## **Emergency Need**

Yes ✓ No□

## **Known Flood Risk**

History of Flooding?
Population at Risk
Roadways flooded
Critical Facilities Impacted

Yes ✓ No 🗆

Yes ✓ No □ Yes □ No □

Notes:

## **Project Costs**

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

Estimated year to start: Time to complete?

\$911,900

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 Yes ✓ No □





Action Plan or other plan?

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

Have the flood risk and flood reduction imp	pacts 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	<ul> <li>Increase the # of entities that adopt higher than NFIP- minimum standards</li> </ul>
☐ Reduce the # of newly constructed vulnerable critical	☐ Develop and maintain an operational stormwater asset
facilities within the existing and future 100-YR floodplain  Increase the # of communities participating in the National	management plan  Increase the # of flood gauges (rainfall/stream) in the
Flood Insurance Program	region
<ul> <li>Decrease the average age of FEMA Flood Insurance Rate</li> <li>Maps used to define SFHAs</li> </ul>	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by	Increase the # of entities that integrate National Weather
completing studies with identified construction projects to	Service and USGS Texas Water Science Center (TXWSC)
address flooding hazards	flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
□ Provide regional detention that could be used for water	☐ Develop a regionally coordinated warning and emergency
reuse applications or as part of a floodplain management program	response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical	☐ Increase the amount of publicly owned land in the region
flood risk areas that is reused for a beneficial public use	that can be utilized for future regional stormwater infrastructure
☐ Increase outreach and education activities, specifically	Increase the proficiency of floodplain managers by
targeting municipal floodplain managers, hosted by Region	increasing the # of them that are certified as Certified
15 RFPG and available on the website	Floodplain Managers (CFM) with the Texas Floodplain Management Association
☐ Increase the use reverse 911, TV, radio, social media, and	☐ Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation	encouraging Region 15 floodplain management programs
routes, and shelter locations  Reduce the # of structures that have been subject to	to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	penalties; and who regulate development in the future conditions floodplain

Yes □ No ✓





## 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

# Proposed 4.5 acre Detention area Risk Area 12 Proposed 2.5 acre Detention area Risk Area 12 Add 2-36" RCP to Existing Culvert LAS CIMAS DR Proposed Channel Widening

## **Emergency Need**

Yes ✓ No□

## **Known Flood Risk**

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □

Wiles inundated

Yes □ No □

Notes:

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted

Yes □ No □

Notes:

## **Project Costs**

Total Cost: \$1,185,800 Study Sponsor: City of Eagle Pass
Non-reoccurring Non- , These are one-time costs for program development, education campaign, and

capital Cost (include in Total non-engineering study costs. above):

Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes ✓ No □





## Flood Mitigation Project Fact Sheet

Action Plan or other plan?

Funding Dedicated?

Yes □ No ✓ (Potential) Source of Funding FIF, local

Hav	/e the flood risk and flood reduction imp	oac	ts beer	า ev	aluated?
Have	e the flood risk and flood reduction impacts been evaluated?		Yes □	No✓	
Doe	s the project have any negative effects, per TWDB guidelines?		Yes □	No □	Unknown ✓
Doe	s the project have a Benefit Cost Ratio greater than 1?		Yes □	No □	Unknown ✓
Doe	s the project reduce flood risk for the 100-Yr flood event?		Yes □	No □	Unknown ✓
Doe	s the Project provide a Water Supply Benefit?		Yes □	No <b>✓</b>	
Has	all the ROW been acquired?		Yes □	No □	
Will	permits or interlocal agreements be needed for this project?		Yes □	No 🗆	
Rela	ated Goals				
$\checkmark$	Increase community access routes to critical facilities,		Increase	the#c	of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event		minimum		
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		managen		aintain an operational stormwater asset Ian
	Increase the # of communities participating in the National		Increase		of flood gauges (rainfall/stream) in the
	Flood Insurance Program		region		
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase CIP list	the# c	of entities that have multi-year drainage
	Increase the coverage of available flood hazard data by			the#c	of entities that integrate National Weather
	completing studies with identified construction projects to		Service a	nd US0	GS Texas Water Science Center (TXWSC)
	address flooding hazards				ystem information into their local Iisseminate warnings
	Increase participation in the regional flood planning process				nature-based flood risk reduction projects
	Provide regional detention that could be used for water		Develop a	a regio	nally coordinated warning and emergency
	reuse applications or as part of a floodplain management				am that can detect the flood threat and
	program Increase acreage of publicly protected open space in critical				warning of impending flood danger nount of publicly owned land in the region
	flood risk areas that is reused for a beneficial public use				ized for future regional stormwater
	·		infrastruc	cture	
	Increase outreach and education activities, specifically				oficiency of floodplain managers by
	targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website			U	f of them that are certified as Certified agers (CFM) with the Texas Floodplain
	13 KT G and available of the website				ssociation
	Increase the use reverse 911, TV, radio, social media, and		Increase	partici	pation in the Community Rating System by
	billboards to communicate flood warnings, evacuation				gion 15 floodplain management programs
	routes, and shelter locations				dedicated drainage fees to implement d FMPs; incorporate noncompliance
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts				who regulate development in the future
			condition		• •
RFP	PG Recommended				





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?

Population at Risk

Roadways flooded

Yes ✓ No □ Frequency of flooding:

# of structures inundated

Miles inundated?

Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

## **Project Costs**

Total Cost: \$181,500 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): \$181,500 Study Sponsor: City of Eagle Pass

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? Entity with Oversight City of Eagle Pass Included in a Hazard Mitigation Yes ✓ No □





## Flood Mitigation Project Fact Sheet

Hav	/e the flood risk and flood reduction imp	oac	ts beer	n eva	aluated?
Hav	e the flood risk and flood reduction impacts been evaluated?		Yes □ 1	No✓	
Doe	s the project have any negative effects, per TWDB guidelines?		Yes □ 1	No □	Unknown ✓
Doe	s the project have a Benefit Cost Ratio greater than 1?		Yes □ 1	No □	Unknown ✓
Doe	s the project reduce flood risk for the 100-Yr flood event?		Yes □ 1	No □	Unknown ✓
Doe	s the Project provide a Water Supply Benefit?		Yes □ 1	No <b>✓</b>	
Has	all the ROW been acquired?		Yes □ 1	No □	
Will	permits or interlocal agreements be needed for this project?		Yes 🗆 🛚	No 🗆	
Rela	ated Goals				
✓	Increase community access routes to critical facilities,				of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event		minimum		
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		managem		aintain an operational stormwater asset Ian
	Increase the # of communities participating in the National		Increase t		of flood gauges (rainfall/stream) in the
	Flood Insurance Program		region		. F
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		CIP list	tne#c	of entities that have multi-year drainage
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase t Service ar flood war	nd USC ning s	of entities that integrate National Weather GS Texas Water Science Center (TXWSC) ystem information into their local disseminate warnings
	Increase participation in the regional flood planning process				nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management		•	_	nally coordinated warning and emergency am that can detect the flood threat and
	program				warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use			oe utili	nount of publicly owned land in the region ized for future regional stormwater
	Increase outreach and education activities, specifically		Increase t	the pro	oficiency of floodplain managers by
	targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Floodplair	n Man	f of them that are certified as Certified agers (CFM) with the Texas Floodplain association
	Increase the use reverse 911, TV, radio, social media, and		Increase p	partici	pation in the Community Rating System by
	billboards to communicate flood warnings, evacuation routes, and shelter locations				gion 15 floodplain management programs dedicated drainage fees to implement
	Reduce the # of structures that have been subject to				d FMPs; incorporate noncompliance
_	repeated flooding events through property buyouts			; and v	who regulate development in the future
RFF	PG Recommended				





## 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

Yes □ No □

\$828,300

Study Area (sq. mi.) 0.05

# REDNADR PPH DR PPH DR PROPOSED Detention PAZCLARO DR REGLAMIDE CHAPALADR RISK Area 15 RISK Area 15 RIDLEST RIDLEST RIDLEST RIDLEST RIDLEST REGULERCY OF HOOGING!

Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes 
No

## **Emergency Need**

Yes ✓ No 🗆

## Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted

Notes:

## **Project Costs**

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

Estimated year to start: Time to complete?

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 Yes ✓ No □ Action Plan or other plan?





## Flood Mitigation Project Fact Sheet

Fur	nding Dedicated? Yes □ No ✓ (Potential	) Sou	urce of Funding	g FIF, local
Hav	ve the flood risk and flood reduction impacts b	eei	n evaluate	d?
Ha	ve the flood risk and flood reduction impacts been evaluated?		Yes □ No	<b>/</b>
Do	es the project have any negative effects, per TWDB guidelines?		Yes 🗆 No 🛭	□ Unknown ✓
Do	es the project have a Benefit Cost Ratio greater than 1?		Yes □ No [	□ Unknown ✓
Do	es the project reduce flood risk for the 100-Yr flood event?		Yes □ No □	□ Unknown ✓
Do	es the Project provide a Water Supply Benefit?		Yes □ No	<b>/</b>
Has	s all the ROW been acquired?		Yes □ No [	
Wi	Il permits or interlocal agreements be needed for this project?		Yes 🗆 No	
Rel	ated Goals			
✓	Increase community access routes to critical facilities,		Increase the	# of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event		minimum sta	
	Reduce the # of newly constructed vulnerable critical		•	maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management	
	Increase the # of communities participating in the National Flood Insurance Program		region	# of flood gauges (rainfall/stream) in the
	Decrease the average age of FEMA Flood Insurance Rate	П	0	# of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list	" or oriting that have mark your dramage
	Increase the coverage of available flood hazard data by		Increase the	# of entities that integrate National Weather
	completing studies with identified construction projects to			JSGS Texas Water Science Center (TXWSC)
	address flooding hazards			g system information into their local
	Increase portionation in the regional flood planning process			o disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water			of nature-based flood risk reduction projects gionally coordinated warning and emergency
	reuse applications or as part of a floodplain management	Ш		gram that can detect the flood threat and
	program			ly warning of impending flood danger
	Increase acreage of publicly protected open space in critical			amount of publicly owned land in the region
	flood risk areas that is reused for a beneficial public use			tilized for future regional stormwater
			infrastructure	
	Increase outreach and education activities, specifically			proficiency of floodplain managers by
	targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		•	e # of them that are certified as Certified anagers (CFM) with the Texas Floodplain
	13 KIFG and available on the website		Management	
	Increase the use reverse 911, TV, radio, social media, and		•	icipation in the Community Rating System by
	billboards to communicate flood warnings, evacuation			Region 15 floodplain management programs
	routes, and shelter locations			e dedicated drainage fees to implement
	Reduce the # of structures that have been subject to			and FMPs; incorporate noncompliance
	repeated flooding events through property buyouts		•	d who regulate development in the future
			conditions flo	oupiaii1
RFF	PG Recommended			





## 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

## Flowers Street Detention Pond OLMOS PARK CIR SILVEROAK GIR 74 Acre Watershed Contributes Runoff to a Single 48" Pipe Here SUNCRESEDRY SUNCRESED

## **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 □

## **Project Costs**

Notes:

above):

Total Cost: \$597,300 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total non-engineering study costs.

Study Sponsor: City of Eagle Pass

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? Entity with Oversight City of Eagle Pass Included in a Hazard Mitigation Yes ✓ No □





Action Plan or other plan?

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

Have the flood risk and flood reduction im	npacts been evaluated?
Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines	s? 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?	
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	<ul> <li>Increase the # of entities that adopt higher than NFIP- minimum standards</li> </ul>
☐ Reduce the # of newly constructed vulnerable critical	<ul> <li>Develop and maintain an operational stormwater asset</li> </ul>
facilities within the existing and future 100-YR floodplain  Increase the # of communities participating in the National	management plan  Increase the # of flood gauges (rainfall/stream) in the
Flood Insurance Program  Decrease the average age of FEMA Flood Insurance Rate	region  Increase the # of entities that have multi-year drainage
Maps used to define SFHAs	CIP list
<ul> <li>Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards</li> </ul>	<ul> <li>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</li> </ul>
☐ Increase participation in the regional flood planning process	
<ul> <li>Provide regional detention that could be used for water reuse applications or as part of a floodplain management</li> </ul>	<ul> <li>Develop a regionally coordinated warning and emergency response program that can detect the flood threat and</li> </ul>
<ul><li>program</li><li>Increase acreage of publicly protected open space in critical</li></ul>	provide timely warning of impending flood danger  Increase the amount of publicly owned land in the region
Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	<ul> <li>Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure</li> </ul>
<ul> <li>Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website</li> </ul>	<ul> <li>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</li> </ul>
☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	<ul> <li>Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement</li> </ul>
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

Yes □ No ✓





## 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

## Proposed Channel Widening STONE REDGE STREET A A ST

## **Emergency Need**

Yes ✓ No 🗆

## **Known Flood Risk**

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □ Frequency of flooding:

# of structures inundated

Miles inundated?

Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

## **Project Costs**

Total Cost: \$52,800 Study Sponsor: City of Eagle Pass
Non-reoccurring Noncapital Cost (include in Total above):

Estimated year to start: \$52,800 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

Entity with Oversight City of Eagle Pass Included in a Hazard Mitigation Yes  $\checkmark$  No  $\Box$ 

Time to complete?





## Flood Mitigation Project Fact Sheet

Hav	/e the flood risk and flood reduction imp	oac	ts beer	n eva	aluated?
Hav	e the flood risk and flood reduction impacts been evaluated?		Yes □ 1	No✓	
Doe	s the project have any negative effects, per TWDB guidelines?		Yes □ 1	No □	Unknown ✓
Doe	s the project have a Benefit Cost Ratio greater than 1?		Yes □ 1	No □	Unknown ✓
Doe	s the project reduce flood risk for the 100-Yr flood event?		Yes □ 1	No □	Unknown ✓
Doe	s the Project provide a Water Supply Benefit?		Yes □ 1	No <b>✓</b>	
Has	all the ROW been acquired?		Yes □ 1	No □	
Will	permits or interlocal agreements be needed for this project?		Yes 🗆 🛚	No 🗆	
Rela	ated Goals				
✓	Increase community access routes to critical facilities,				of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event		minimum		
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		managem		aintain an operational stormwater asset Ian
	Increase the # of communities participating in the National		Increase t		of flood gauges (rainfall/stream) in the
	Flood Insurance Program		region		. F
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		CIP list	tne#c	of entities that have multi-year drainage
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase t Service ar flood war	nd USC ning s	of entities that integrate National Weather GS Texas Water Science Center (TXWSC) ystem information into their local disseminate warnings
	Increase participation in the regional flood planning process				nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management		•	_	nally coordinated warning and emergency am that can detect the flood threat and
	program				warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use			oe utili	nount of publicly owned land in the region ized for future regional stormwater
	Increase outreach and education activities, specifically		Increase t	the pro	oficiency of floodplain managers by
	targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Floodplair	n Man	f of them that are certified as Certified agers (CFM) with the Texas Floodplain association
	Increase the use reverse 911, TV, radio, social media, and		Increase p	partici	pation in the Community Rating System by
	billboards to communicate flood warnings, evacuation routes, and shelter locations				gion 15 floodplain management programs dedicated drainage fees to implement
	Reduce the # of structures that have been subject to				d FMPs; incorporate noncompliance
_	repeated flooding events through property buyouts			; and v	who regulate development in the future
RFF	PG Recommended				





## 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

## Proposed 6'x4' RCB

## **Emergency Need**

Yes ✓ No 🗆

## **Known Flood Risk**

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □

Wiles inundated

Yes □ No □

Notes:

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes □ No □

No □

Notes:

## **Project Costs**

Total Cost: \$316,800 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): \$16,800 Study Sponsor: City of Eagle Pass

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  $\checkmark$  No  $\square$ 





## Flood Mitigation Project Fact Sheet

Hav	/e the flood risk and flood reduction imp	oac	ts beer	n eva	aluated?
Hav	e the flood risk and flood reduction impacts been evaluated?		Yes □ 1	No✓	
Doe	s the project have any negative effects, per TWDB guidelines?		Yes □ 1	No □	Unknown ✓
Doe	s the project have a Benefit Cost Ratio greater than 1?		Yes □ 1	No □	Unknown ✓
Doe	s the project reduce flood risk for the 100-Yr flood event?		Yes □ 1	No □	Unknown ✓
Doe	s the Project provide a Water Supply Benefit?		Yes □ 1	No <b>✓</b>	
Has	all the ROW been acquired?		Yes □ 1	No □	
Will	permits or interlocal agreements be needed for this project?		Yes 🗆 🛚	No 🗆	
Rela	ated Goals				
✓	Increase community access routes to critical facilities,				of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event		minimum		
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		managem		aintain an operational stormwater asset Ian
	Increase the # of communities participating in the National		Increase t		of flood gauges (rainfall/stream) in the
	Flood Insurance Program		region		. F
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		CIP list	tne#c	of entities that have multi-year drainage
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase t Service ar flood war	nd USC ning s	of entities that integrate National Weather GS Texas Water Science Center (TXWSC) ystem information into their local disseminate warnings
	Increase participation in the regional flood planning process				nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management		•	_	nally coordinated warning and emergency am that can detect the flood threat and
	program				warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use			oe utili	nount of publicly owned land in the region ized for future regional stormwater
	Increase outreach and education activities, specifically		Increase t	the pro	oficiency of floodplain managers by
	targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Floodplair	n Man	f of them that are certified as Certified agers (CFM) with the Texas Floodplain association
	Increase the use reverse 911, TV, radio, social media, and		Increase p	partici	pation in the Community Rating System by
	billboards to communicate flood warnings, evacuation routes, and shelter locations				gion 15 floodplain management programs dedicated drainage fees to implement
	Reduce the # of structures that have been subject to				d FMPs; incorporate noncompliance
_	repeated flooding events through property buyouts			; and v	who regulate development in the future
RFF	PG Recommended				





## 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

# Proposed Channel Widening Project removes flooding of intersection Eagle Pass Creek Tributary 2 Proposed 8'x4' RCB

## **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 □

## **Project Costs**

Notes:

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

Estimated year to start: Time to complete?

\$359,700 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 Yes  $\checkmark$  No  $\square$  Action Plan or other plan?





## Flood Mitigation Project Fact Sheet

Fur	nding Dedicated? Yes □ No ✓ (Potential	) Sou	urce of Funding	g FIF, local
Hav	ve the flood risk and flood reduction impacts b	eei	n evaluate	d?
Ha	ve the flood risk and flood reduction impacts been evaluated?		Yes □ No	<b>/</b>
Do	es the project have any negative effects, per TWDB guidelines?		Yes 🗆 No 🛭	□ Unknown ✓
Do	es the project have a Benefit Cost Ratio greater than 1?		Yes □ No [	□ Unknown ✓
Do	es the project reduce flood risk for the 100-Yr flood event?		Yes □ No □	□ Unknown ✓
Do	es the Project provide a Water Supply Benefit?		Yes □ No	<b>/</b>
Has	s all the ROW been acquired?		Yes □ No [	
Wi	Il permits or interlocal agreements be needed for this project?		Yes 🗆 No	
Rel	ated Goals			
✓	Increase community access routes to critical facilities,		Increase the	# of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event		minimum sta	
	Reduce the # of newly constructed vulnerable critical		•	maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management	
	Increase the # of communities participating in the National Flood Insurance Program		region	# of flood gauges (rainfall/stream) in the
	Decrease the average age of FEMA Flood Insurance Rate	П	0	# of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list	" or oriting that have mark your dramage
	Increase the coverage of available flood hazard data by		Increase the	# of entities that integrate National Weather
	completing studies with identified construction projects to			JSGS Texas Water Science Center (TXWSC)
	address flooding hazards			g system information into their local
	Increase portionation in the regional flood planning process			o disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water			of nature-based flood risk reduction projects gionally coordinated warning and emergency
	reuse applications or as part of a floodplain management	Ш		gram that can detect the flood threat and
	program			ly warning of impending flood danger
	Increase acreage of publicly protected open space in critical			amount of publicly owned land in the region
	flood risk areas that is reused for a beneficial public use			tilized for future regional stormwater
			infrastructure	
	Increase outreach and education activities, specifically			proficiency of floodplain managers by
	targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		•	e # of them that are certified as Certified anagers (CFM) with the Texas Floodplain
	13 KIFG and available on the website		Management	
	Increase the use reverse 911, TV, radio, social media, and		•	icipation in the Community Rating System by
	billboards to communicate flood warnings, evacuation			Region 15 floodplain management programs
	routes, and shelter locations			e dedicated drainage fees to implement
	Reduce the # of structures that have been subject to			and FMPs; incorporate noncompliance
	repeated flooding events through property buyouts		•	d who regulate development in the future
			conditions flo	oupiaii1
RFF	PG Recommended			





## 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

# BOPHINE ST. WEDGETSTOR. BOYNIES AND ST. SECONDST. 5

## **Emergency Need**

Yes ✓ No 🗆

## **Known Flood Risk**

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □

Wiles inundated

Yes □ No □

Notes:

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes □ No □

No □

Notes:

## **Project Costs**

Time to complete?

Total Cost: \$957,000 Study Sponsor: City of Eagle Pass

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

Estimated year to start: \$957,000 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

Entity with Oversight City of Eagle Pass Included in a Hazard Mitigation Yes  $\checkmark$  No  $\Box$ 



RFPG Recommended

Yes □ No ✓



## Flood Mitigation Project Fact Sheet

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





## 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.)
- 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.)



requency or noouling # of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

## **Emergency Need**

Yes ✓ No 🗆

## Known Flood Risk

History of Flooding? Yes ✓ Population at Risk

Roadways flooded Yes ✓ No □ Yes □ No □

Critical Facilities Impacted

Notes:

## Project Costs

**Total Cost:** \$80,300 Study Sponsor: City of Eagle Pass Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

Cost (include in Total above): engineering study costs. Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

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

No □

Page 1 of 2



Yes □ No 🗸



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

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## 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

# PROPOSED DETENTION POND Rhode Island St. Pennsylvania St. STORM DRAIN: 1. 7 x 5 Box (1,900 LF) EASEMENT ROD. PROPOSED BERM IMPROVEMENTS EASEMENT ROD. PROPOSED BERM IMPROVEMENTS EASEMENT ROD. PROPOSED BERM IMPROVEMENTS EASEMENT ROD. Frequency of flooding:

## **Emergency Need**

Yes ✓ No 🗆

### Known Flood Risk

History of Flooding? Population at Risk Roadways flooded

Yes ✓ No □ Yes □ No □

# o No □

# of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Notes:

## **Project Costs**

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start:

Critical Facilities Impacted

\$2,609,200

Study Sponsor: City of Alton
These are one-time costs for program development, education campaign, and nonengineering study costs.

Entity with Oversight City of Alton





								i ac	
Time to complete?	Inc		azard Mitigati		∕es ✓	No $\square$			
Funding Dedicated?	Yes □ No ✓		n or other pla ource of Fundi		FIF, loca	ıl			
Have the flood risk and flood	d reduction impa	acts beer	n evaluat	ed?					
Have the flood risk and flood reduction im	the second secon		Yes □ No						
Does the project have any negative effect	s, per TWDB guidelines?		Yes □ No	□ Un	ıknown	✓			
Does the project have a Benefit Cost Ratio	greater than 1?		Yes □ No	□ Un	ıknown	✓			
Does the project reduce flood risk for the	100-Yr flood event?		Yes □ No	□ Un	ıknown	✓			
Does the Project provide a Water Supply B	Benefit?		Yes □ No	✓					
Has all the ROW been acquired?			Yes □ No						
Will permits or interlocal agreements be r	needed for this project?		Yes □ No						
Related Goals									
✓ Increase community access routes to		tion 🗆	Increase the	# of er	ntities t	hat adopt	higher tha	ın NFIP-mi	nimum
routes, during and after a flooding ex Reduce the # of newly constructed vi	ulnerable critical facilities	S 🗆	standards Develop and	l mainta	ain an c	perationa	al stormwa	iter asset	
within the existing and future 100-YR Increase the # of communities partic		ood 🗆	management Increase the		ood dai	ines (rainf	all/stream	) in the red	nion
Insurance Program	. •				Ü				
<ul> <li>Decrease the average age of FEMA Flushed to define SFHAs</li> </ul>	lood Insurance Rate Map	S $\square$	Increase the	# of er	ntities t	hat have r	nulti-year	drainage C	IP list
☐ Increase the coverage of available flo			Increase the Service and U						
studies with identified construction p hazards	or ojects to address floodi	rig	warning syst						
Increase participation in the regional	flood planning process		disseminate			od flood r	ick roducti	on project	
<ul><li>Increase participation in the regional</li><li>Provide regional detention that could</li></ul>		□ } □	Increase use Develop a re						
applications or as part of a floodplair		_	response pro	ogram 1	that car	n detect th	ne flood th		
☐ Increase acreage of publicly protecte	ed open space in critical fl	ood 🗆	timely warni Increase the					the region	n that
risk areas that is reused for a benefic	ial public use		can be utilize	ed for f	uture r	egional st	ormwater	infrastruct	ure
<ul> <li>Increase outreach and education acti municipal floodplain managers, hoste</li> </ul>			Increase the the # of then						
available on the website	ed by Region 15 KFPG and	u	(CFM) with t						
☐ Increase the use reverse 911, TV, rad			Increase part	ticipati	on in th	ne Commu	ınity Ratin	g System b	у
billboards to communicate flood war shelter locations	nings, evacuation routes	, and	encouraging incorporate						
□ Reduce the # of structures that have		d	and FMPs; in	ncorpor	rate noi	ncompliar	ice penalti	es; and wh	10
flooding events through property buy	youts		regulate dev	elopme	ent in t	he future	conditions	floodplain	1
RFPG Recommended									
Yes □ No ✓									