





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

FMP ID: 153000001

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

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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: \$870,000 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): \$100 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 ✓ 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? Yes □ No □ Unknown ✓ Does the project have any negative effects, per TWDB guidelines? 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 ✓ Yes □ No ✓ Does the Project provide a Water Supply Benefit? 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 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 2 Treasure Hills FMP ID: 153000002

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 TA Acre Watershed Contributes Runoff to a Single 48" Pipe Here SUNCRESTOR IT IN SUNCRESTOR IT

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$1,078,000 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): \$1,078,000 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 ✓ No □





				Fact Shee
Funding Dedicated?	Yes □ No ✓		n or other plan? urce of Funding	FIF, local
Have the flood risk a	and flood reduct	tion impac	cts been ev	aluated?
Have the flood risk and flood r	eduction impacts been e	valuated?	Yes □ No 🗸	
Does the project have any neg	gative effects, per TWDB g	guidelines?	Yes □ No □	Unknown ✓
Does the project have a Benef	it 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 Wa	iter Supply Benefit?		Yes □ No ✓	
Has all the ROW been acquire	d?		Yes □ No □	
Will permits or interlocal agree	ements be needed for th	is project?	Yes □ No □	
Related Goals				
✓ Increase community acce	ss routes to critical facilit	ies,	Increase the #	of entities that adopt higher than NFIP-
evacuation routes, during			minimum stand	
Reduce the # of newly con				aintain an operational stormwater asset
facilities within the existing Increase the # of community.			management p Increase the #	of flood gauges (rainfall/stream) in the
Flood Insurance Program			region	
 Decrease the average age Maps used to define SFHA 		e Rate 🗆	Increase the # CIP list	of entities that have multi-year drainage
☐ Increase the coverage of a		ta by		of entities that integrate National Weather
completing studies with i			Service and US	GS Texas Water Science Center (TXWSC)
address flooding hazards				system information into their local disseminate warnings
☐ Increase participation in t	he regional flood plannin	g process 🗆	•	nature-based flood risk reduction projects
☐ Provide regional detentio			Develop a region	onally coordinated warning and emergency
reuse applications or as p	art of a floodplain manag	gement		ram that can detect the flood threat and
program Increase acreage of public	rly protected onen space	in critical		warning of impending flood danger nount of publicly owned land in the region
flood risk areas that is reu				ized for future regional stormwater
			infrastructure	
 Increase outreach and ed targeting municipal flood 	•	-		oficiency of floodplain managers by # of them that are certified as Certified
15 RFPG and available on	_	y Region	_	nagers (CFM) with the Texas Floodplain
			Management A	
☐ Increase the use reverse 9			•	ipation in the Community Rating System by
billboards to communicat routes, and shelter location	•	tion		egion 15 floodplain management programs dedicated drainage fees to implement
-	s that have been subject	to		dedicated drainage rees to implement id FMPs; incorporate noncompliance

RFPG Recommended

repeated flooding events through property buyouts

Yes ✓ No 🗆

penalties; and who regulate development in the future

conditions floodplain





Risk Area 15 Trib 3 Detention at Main Street

FMP ID: 153000003

No Structural Projects (Property easement

acquisitions, elevation of structures, flood-proofing,

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.)

✓ Infrastructure

early warn systems)



City/ Cities

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.05

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

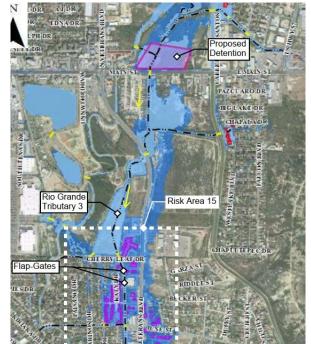
History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Yes □ No □

Critical Facilities Impacted Notes:



Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes 🗌 No 🗆

Project Costs

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

Estimated year to start: Time to complete?

\$753,000 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 Included in a Hazard Mitigation Yes ✓ No ☐ Action Plan or other plan?



RFPG Recommended

Yes ✓ No 🗆



Flood Mitigation Project Fact Sheet

Funding Dedicated?	Yes □ No ✓	(Potential) So	urce of Funding	FIF, local
Have the flood risk and	d flood reduction i	mpacts bee	n evaluated´	?
Have the flood risk and flood	reduction impacts been ϵ	evaluated?	Yes □ No 🗸	
Does the project have any ne	gative effects, per TWDB	guidelines?	Yes □ No □	Unknown ✓
Does the project have a Bene	fit Cost Ratio greater than	n 1?	Yes □ No □	Unknown ✓
Does the project reduce floor	I risk for the 100-Yr flood	event?	Yes □ No □	Unknown ✓
Does the Project provide a W	ater Supply Benefit?		Yes □ No ✓	
Has all the ROW been acquire	ed?		Yes □ No □	
Will permits or interlocal agre	ements be needed for th	is project?	Yes □ No □	
Related Goals				
✓ Increase community acce				of entities that adopt higher than NFIP-
	g and after a flooding eve Instructed vulnerable crit		minimum stand	dards aintain an operational stormwater asset
facilities within the existi			management p	
☐ Increase the # of commu	nities participating in the	-	Increase the #	of flood gauges (rainfall/stream) in the
Flood Insurance Program		a Data	region	
 Decrease the average ag Maps used to define SFH 	e of FEMA Flood Insuranc As	ce Rate $\ \square$	CIP list	of entities that have multi-year drainage
☐ Increase the coverage of	available flood hazard da			of entities that integrate National Weather
	identified construction pr	ojects to		GS Texas Water Science Center (TXWSC)
address flooding hazards				system information into their local disseminate warnings
	the regional flood plannir		•	nature-based flood risk reduction projects
_	on that could be used for			onally coordinated warning and emergency
program	part of a floodplain mana	gement		am that can detect the flood threat and warning of impending flood danger
	icly protected open space	e in critical	•	nount of publicly owned land in the region
flood risk areas that is re	used for a beneficial publ	ic use		ized for future regional stormwater
☐ Increase outreach and ed	ducation activities, specifi	cally	infrastructure Increase the pr	oficiency of floodplain managers by
	Iplain managers, hosted b			of them that are certified as Certified
15 RFPG and available or	the website			nagers (CFM) with the Texas Floodplain
☐ Increase the use reverse	911 TV radio social med	dia, and	Management A	ssociation in the Community Rating System by
	te flood warnings, evacua		•	egion 15 floodplain management programs
routes, and shelter locati	ions		to incorporate	dedicated drainage fees to implement
	es that have been subject			d FMPs; incorporate noncompliance
repeated flooding events	through property buyou	ts	conditions floo	who regulate development in the future
			201141110113 1100	~b.~





Risk Area 8 Tributary 2 channel widening near Alexander Drive

FMP ID: 153000004

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.) 0.04

Critical Facilities Impacted

Froposed Channel Widening Graves Elementary, School Approximate Grading Limits

of structures inundated Miles inundated?

Agricultural Land impacted Yes \square No \square

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Notes:

Project Costs

Time to complete?

Total Cost: \$73,000 Study Sponsor: City of Eagle Pass

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 Eagle Pass

Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (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 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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	$\hfill \square$ 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 municipal floodplain managers, hosted by Region 15 RFPG and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
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
 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
RFPG Recommended	





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

FMP ID: 153000005

FMP Description

Alternative 2, is designed to remove structures from the 25-year floodplain and more frequent storms. This alternative consists of upsizing the storm drain under West St Jude Avenue. The trunk line will consist of 1,900 LF of a single 7' X 5' reinforced concrete box sloped at 0.5% from the area just west of the neighborhood on W. St. Jude Avenue to the West Main Drain Channel, downstream (north) of the existing 10' X 7' box culvert.

Project Type

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

Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110210

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) N/A

DETENTION POND PROPOSED BERM 1.900 LF)

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded

Critical Facilities Impacted

Notes:

Yes ✓ No □ Yes 🗆

No □

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?

\$2,443,160

Yes □ No ✓

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 Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

(Potential) Source of Funding FIF, local





Ha۱	ve the flood risk and flood reduction impacts k	oee	n evaluated?
Hav	ve 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	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
	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 applications or as part of a floodplain management program		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		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 municipal floodplain managers, hosted by Region 15 RFPG and available on the website		can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase 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 - West Mile 5 and South Glasscock Road Alternative 3

FMP ID: 15300006

FMP Description

Alternative 3 is simply the buyout and removal of 23 properties on the north side of Buchanan from the 10-year floodplain. Once structures are removed, the vacant land can be excavated and used as a park/regional retention pond.

Project Type

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

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110213

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$1,442,000 Study Sponsor: City of Alton

Non-reoccurring Noncapital Cost (include in Total above): Study Sponsor: City of Alton

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 □





Fur	nding Dedicated?	Yes □ No ✓	Action (Potential)		or other rce of Fu	•	FIF, local
Hav	ve the flood risk and f	lood reduction	impacts b	eer	n evalu	ated	?
Hav	ve the flood risk and flood red	uction impacts been	evaluated?		Yes 🗆	No ✓	
Doe	es the project have any negati	ve effects, per TWDB	guidelines?		Yes 🗆	No \square	Unknown ✓
Doe	es the project have a Benefit (Cost Ratio greater tha	n 1?		Yes 🗆	No 🗆	Unknown ✓
Doe	es the project reduce flood ris	k for the 100-Yr flood	l event?		Yes 🗆	No 🗆	Unknown ✓
Doe	es the Project provide a Wate	r Supply Benefit?			Yes 🗆	No ✓	
Has	s all the ROW been acquired?				Yes 🗆	No 🗆	
Wil	l permits or interlocal agreem	ents be needed for th	nis project?		Yes □	No 🗆	
Rela	ated Goals						
	Increase community access						of entities that adopt higher than NFIP-
	evacuation routes, during ar Reduce the # of newly const				minimui Develon		aintain an operational stormwater asset
	facilities within the existing				manage		
	Increase the # of communiti	es participating in the	e National			the # o	of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of	FEMA Flood Insuran	ce Rate		region Increase	the # c	of entities that have multi-year drainage
	Maps used to define SFHAs				CIP list		, , , , , , , , , , , , , , , , , , , ,
	Increase the coverage of ava						of entities that integrate National Weather
	completing studies with ider address flooding hazards	itified construction p	rojects to		flood wa	arning s	GS Texas Water Science Center (TXWSC) system information into their local disseminate warnings
	Increase participation in the	regional flood planni	ng process		-		nature-based flood risk reduction projects
	Provide regional detention t						onally coordinated warning and emergency
	reuse applications or as part program	of a floodplain mana	igement		-		am that can detect the flood threat and warning of impending flood danger
	Increase acreage of publicly	protected open space	e in critical				nount of publicly owned land in the region
	flood risk areas that is reuse	d for a beneficial pub	lic use				ized for future regional stormwater
	Increase outreach and educa	ation activities, specif	ically	П	infrastru Increase		oficiency of floodplain managers by
	targeting municipal floodpla	•	-				of them that are certified as Certified
	15 RFPG and available on the	e website					nagers (CFM) with the Texas Floodplain
	Increase the use reverse 911	TV radio social me	dia and		_		ssociation pation in the Community Rating System by
	billboards to communicate f					-	egion 15 floodplain management programs
,	routes, and shelter locations					-	dedicated drainage fees to implement
✓	Reduce the # of structures the repeated flooding events the						d FMPs; incorporate noncompliance who regulate development in the future
	repeated hooding events thi	ough property buyor	als.		conditio		- · · · · · · · · · · · · · · · · · · ·

RFPG Recommended

Yes ✓ No 🗆





Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & FMP ID: 153000007 Ware Rd.

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

PR: (2) 8'40' RCB Under Mile 8.5 Rd PR: Detention Pond (Approx. 12 Acres 90 Acre-11) PR: Detention Pond (Approx. 15 Acres 90 Acre-11) PR: Deten

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

Notes:

Frequency of flooding:

of structures inundated

Miles inundated?

Agricultural Land impacted

Yes □ No □

Agricultural Land impacted

Yes □ No □

Project Costs

Total Cost: \$9,272,000 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. Estimated year to start: **Entity with Oversight** Hidalgo County Precinct 4 Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan? Yes □ No ✓ (Potential) Source of Funding **Funding Dedicated?** 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	 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 (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
DEDC December and ad	

RFPG Recommended

Yes ✓ No 🗆





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

FMP ID: 153000008

No Structural Projects (Property easement acquisitions,

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

FMP Description

Regional Detention Facilities with a pond footprint of 25 acres along the Existing HCDD1 West Main Drain. Storm Drain and Local Drainage Improvements. Channel maintenance.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river Infrastructure
- restorations, etc.)

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

\$10,459,500

Notes:

Project Costs

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

Study Sponsor: Hidalgo County Precinct 4

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

Yes □ No □

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 ✓ (Po	otential) So	ource of Funding FIF, local
Have the flood risk and	· ·	ts beer	
Have the flood risk and flood reduc	tion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cos	st Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk f	for the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water S	upply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreemen	nts be needed for this project?		Yes No
Related Goals			
✓ Increase community access ro routes, during and after a floo	utes to critical facilities, evacuatio	n 🗆	Increase the # of entities that adopt higher than NFIP-minimum standards
	cted vulnerable critical facilities		Develop and maintain an operational stormwater asset management plan
	participating in the National Floor	d 🗆	Increase the # of flood gauges (rainfall/stream) in the region
	EMA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
_	able flood hazard data by completiction projects to address flooding	-	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 re			Increase use of nature-based flood risk reduction projects
_	at could be used for water reuse odplain management program		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 principle risk areas that is reused for a beginning. 	rotected open space in critical floo peneficial public use	d 🗆	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting s, hosted by Region 15 RFPG and		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 od warnings, evacuation routes, and	□ nd	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
	t have been subject to repeated erty buyouts		and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes ✓ No 🗆			





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

FMP ID: 153000009

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

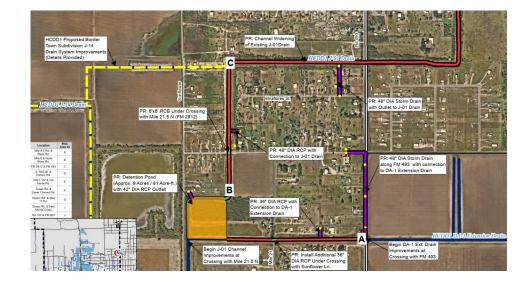
HUC 12 121102080400,

121102070100,

121102080200.

121102080200

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Notes:

Frequency of flooding:

of structures inundated

of structures inundated

Agricultural Land impacted

Yes □ No □

Agricultural Land impacted

Yes □ No □

\$6,807,120

Project Costs

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





Time to complete?		Action Pl	Hazard Mitigation Yes ✓ No □ lan or other plan?
Funding Dedicated?	Yes □ No ✓	(Potential) S	Source of Funding FIF, local
	risk and flood reduction	•	en evaluated? Yes □ No ✓
	any negative effects, per TWDB guid		Yes □ No □ Unknown ✓
	a Benefit Cost Ratio greater than 1?		Yes □ No □ Unknown ✓
	ce flood risk for the 100-Yr flood ever	nt?	Yes □ No □ Unknown ✓
Does the Project prov	ide a Water Supply Benefit?		Yes □ No ✓
Has all the ROW been			Yes □ No □
	cal agreements be needed for this pr	oject?	Yes □ No □
Related Goals			
✓ Increase commu	nity access routes to critical facilities, d after a flooding event	evacuation \square	Increase the # of entities that adopt higher than NFIP-minimum standards
	newly constructed vulnerable critical	facilities \square	Develop and maintain an operational stormwater asset
☐ Increase the # of	ng and future 100-YR floodplain communities participating in the Nat	ional Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Progra ☐ Decrease the ave used to define SF	rage age of FEMA Flood Insurance Ra	ate Maps	Increase the # of entities that have multi-year drainage CIP list
☐ Increase the cove	erage of available flood hazard data b tified construction projects to addres		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
	ation in the regional flood planning p		Increase use of nature-based flood risk reduction projects
	detention that could be used for wat s part of a floodplain management pr		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	of publicly protected open space in c	ritical flood 🗆	Increase the amount of publicly owned land in the region that
Increase outreach	reused for a beneficial public use h and education activities, specifically lain managers, hosted by Region 15 F		can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the v	website		(CFM) with the Texas Floodplain Management Association
	reverse 911, TV, radio, social media, a nmunicate flood warnings, evacuation		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 s	structures that have been subject to r hrough property buyouts	epeated	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recomme	ended		
Yes ✓ No 🗆			





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

FMP ID: 153000010

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 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,

12110282

HUC 12 **121102080400**,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

Summary Table Sovra 100-YR 21 / 1,491 122 / 2,208 1% 5% RECOIL Proposed Jackson Drain Book Installation and Drain Regarding Costain Provised; RECOIL Proposed Jackson Drain Book Installation and Drain Regarding Costain Provised; P.R. Channel Wideling of Existing North Main Drain RECOIL Proposed Jackson Drain Book Installation and Drain Regarding Costain Provised; P.R. Channel Wideling of Existing Dinnes with Quarter to North Main Drain REGISTER REGISTER STATES AND THE PROPOSED AND THE PROP

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Miles inundated?
Agricultural Land impacted Yes □ No □

Frequency of flooding:

of structures inundated

Notes:

Project Costs

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

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

engineering study costs.

\$3,097,000

Entity with Oversight Hidalgo County Precinct 4

Included in a Hazard Mitigation Yes ✓ No □



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? 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 standards 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 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 E at Hwy 107 & Val Verde Rd.

FMP ID: 153000011

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 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,

> > 12110283

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Miles inundated? Agricultural Land impacted Yes □ No □

Frequency of flooding:

of structures inundated

Notes:

Project Costs

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

Study Sponsor: **Hidalgo County Precinct 4**

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

engineering study costs.

\$4,300,730

Entity with Oversight Hidalgo County Precinct 4

Included in a Hazard Mitigation Yes ✓ No 🗆



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? 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 standards 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 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 F at Texas Rd. & Cesar Chavez Rd.

FMP ID: 153000012

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

Project Area

- 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.)

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110284

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

PR: Open Channel Along Existing Easements 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 R: 36 DIA ROF WILL O O 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 Miles inundated? No □ 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:

\$4,721,500 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





Time to complete?			Hazard Mitigation Yes ✓ No □ Plan or other plan?
Funding Dedicated?	Yes □ No ✓		Source of Funding FIF, local
Have the flood risk and Have the flood risk and flood red Does the project have any negat Does the project have a Benefit Does the project reduce flood rid Does the Project provide a Water Has all the ROW been acquired?	duction impacts been evaluat ive effects, per TWDB guideli Cost Ratio greater than 1? sk for the 100-Yr flood event er Supply Benefit?	ed?	en evaluated? Yes □ No ✓ Yes □ No □ Unknown ✓ Yes □ No □ Unknown ✓ Yes □ No □ Unknown ✓ Yes □ No □ Yes □ No □ Yes □ No □
Related Goals			
routes, during and after a f Reduce the # of newly cons within the existing and futu Increase the # of communit Insurance Program Decrease the average age of used to define SFHAs Increase the coverage of average studies with identified cons hazards Increase participation in the Provide regional detention applications or as part of a Increase acreage of publich risk areas that is reused for Increase outreach and educ municipal floodplain manage available on the website Increase the use reverse 91 billboards to communicate shelter locations	tructed vulnerable critical factore 100-YR floodplain cies participating in the Nation of FEMA Flood Insurance Rate railable flood hazard data by citruction projects to address the regional flood planning protococcur a beneficial public use ration activities, specifically to gers, hosted by Region 15 RFF 1, TV, radio, social media, an flood warnings, evacuation rethat have been subject to regional flood planting to that the process of the protococcur is a beneficial public use ration activities, specifically to gers, hosted by Region 15 RFF 1, TV, radio, social media, an flood warnings, evacuation rethat have been subject to region the protococcur is a specifically to the protococcur is a specifically to gers, hosted by Region 15 RFF 1, TV, radio, social media, an flood warnings, evacuation rethat have been subject to region 15 RFF 1.	cilities	standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
RFPG Recommended Yes ✓ No□			





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

FMP ID: 153000013

No Structural Projects (Property easement acquisitions,

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

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

Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110285

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

R: 48" DIA RCP with Connections Proposed Open Channel and Existing R: Detention Pond (Approx. 10 Acre/ 75 A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Project Costs

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

\$5,231,130 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 🗆



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? 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 standards 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 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 I at Sharp Rd. & E Monte Cristo Rd

FMP ID: 153000014

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.)
- 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**,

12110286

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

\$5,174,170

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

Yes ✓ No □ Miles inundated?

Yes □ No □ Agricultural Land impacted Yes □ No □

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Study Sponsor: Hidalgo County Precinct 4

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

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

Entity with Oversight Hidalgo County Precinct 4





Time to complete?			Hazard Mitigation Yes ✓ No □ Plan or other plan?	
Funding Dedicated?	Yes □ No ✓		Source of Funding FIF, local	
Have the flood risk ar Have the flood risk and flood re Does the project have any nega Does the project have a Benefit Does the project reduce flood r Does the Project provide a Wat Has all the ROW been acquired Will permits or interlocal agree	duction impacts been evaluate tive effects, per TWDB guidelin Cost Ratio greater than 1? isk for the 100-Yr flood event? er Supply Benefit?	ed? nes?	en evaluated? Yes □ No ✓ Yes □ No □ Unknown ✓ Yes □ No □ Unknown ✓ Yes □ No □ Unknown ✓ Yes □ No ✓ Yes □ No □ Yes □ No □	
Related Goals				
routes, during and after a Reduce the # of newly come within the existing and fut lincrease the # of commun linsurance Program Decrease the average age used to define SFHAs lincrease the coverage of a studies with identified combazards Increase participation in the Provide regional detention applications or as part of a lincrease acreage of public risk areas that is reused for lincrease outreach and edumunicipal floodplain mana available on the website lincrease the use reverse 9 billboards to communicate shelter locations	structed vulnerable critical facure 100-YR floodplain ities participating in the Nation of FEMA Flood Insurance Rate vailable flood hazard data by control of the regional flood planning process that could be used for water in floodplain management programment programmen	ilities	standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provint timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Manage (CFM) with the Texas Floodplain Management Association	de ut 3
RFPG Recommended Yes ✓ No□				





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

FMP ID: 153000015

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.)
 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river ✓ Infrastructure restorations, etc.)

Project Area

Emergency Need

Study Area (sq. mi.)

N/A

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:

\$3,116,000

Project Costs

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





Time to complete?		Action Pl	lazard Mitigation an or other plan?	Yes ✓ No □
Funding Dedicated?	Yes □ No ✓	(Potential) S	ource of Funding	FIF, local
Have the flood risk a	nd flood reduction in reduction impacts been evaluated	•	n evaluated? Yes □ No ✓	
Does the project have any neg	gative effects, per TWDB guideli	nes?	Yes □ No □ U	Inknown ✓
Does the project have a Bene			Yes □ No □ U	Inknown ✓
Does the project reduce flood	risk for the 100-Yr flood event	?	Yes □ No □ U	Inknown ✓
Does the Project provide a Wa			Yes □ No ✓	
Has all the ROW been acquire			Yes □ No □	
·	ements be needed for this proj	ect?	Yes □ No □	
Related Goals				
,	ess routes to critical facilities, ev a flooding event	acuation \square	Increase the # of e	entities that adopt higher than NFIP-minimum
	instructed vulnerable critical fac	cilities		tain an operational stormwater asset
	nities participating in the Natio	nal Flood 🗆	management plar Increase the # of f	i lood gauges (rainfall/stream) in the region
Insurance Program Decrease the average ag used to define SFHAs	e of FEMA Flood Insurance Rate	Maps 🗆	Increase the # of 6	entities that have multi-year drainage CIP list
_	available flood hazard data by onstruction projects to address		Service and USGS	entities that integrate National Weather Texas Water Science Center (TXWSC) flood Iformation into their local capabilities to ings
	the regional flood planning pro-		Increase use of na	ture-based flood risk reduction projects
_	on that could be used for water a floodplain management prog		response program	illy coordinated warning and emergency that can detect the flood threat and provide impending flood danger
 Increase acreage of publicities areas that is reused f 	cly protected open space in crit	ical flood 🗆	Increase the amou	unt of publicly owned land in the region that future regional stormwater infrastructure
☐ Increase outreach and ed	lucation activities, specifically to		Increase the profi	ciency of floodplain managers by increasing
available on the website	nagers, hosted by Region 15 RFF	'G and		t are certified as Certified Floodplain Managers xas Floodplain Management Association
	911, TV, radio, social media, an te flood warnings, evacuation r		Increase participa encouraging Region	tion in the Community Rating System by on 15 floodplain management programs to
shelter locations Reduce the # of structure flooding events through	es that have been subject to rep property buyouts	eated	and FMPs; incorpo	ated drainage fees to implement future FMEs orate noncompliance penalties; and who nent in the future conditions floodplain
RFPG Recommended			. Sparate developi	
Yes ✓ No □				





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

FMP ID: 153000016

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

No Structural Projects (Property easement acquisitions,

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

Project Area

City/ Cities

County/ Counties Hidalgo

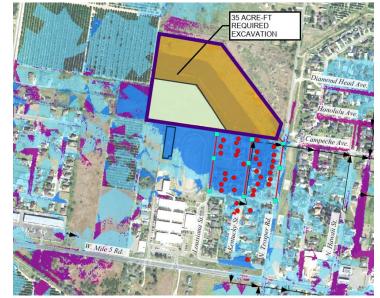
HUC 8 12110207,

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

No □

Notes:

Frequency of flooding:

of structures inundated

of structures inundated

Agricultural Land impacted

Yes □ No □

Agricultural Land impacted

Yes □ No □

Project Costs

Total Cost: \$1,866,360 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? 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	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 □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
□ ✓	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	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

RFPG Recommended

Yes ✓ No 🗆





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

FMP ID: 153000017

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 $-8' \times 5'$ reinforced concrete boxes (RCBs), and adding two $-8' \times 5'$ 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?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Yes ✓ No □

Notes:

Frequency of flooding:

of structures inundated

Miles inundated?

Agricultural Land impacted Yes □ No □

No □

No □

No □

Agricultural Land impacted Yes □ No □

Project Costs

Total Cost: \$3,975,700 Study Sponsor: City of Weslaco

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 Weslaco

Time to complete? 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?

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
Re	lated 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
□ ✓	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 🗆





Weslaco Stormwater Improvement Plan - Westgate Drive and Sugar Cane Drive

FMP ID: 153000018

FMP Description

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

Project Type

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

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110234

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

Yes ✓ No □

Agricultural Land impacted

Yes □ No □

Notes:

Project Costs

Total Cost: \$9,936,170 Study Sponsor: City of Weslaco

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 Weslaco

Time to complete? 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?

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 	 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 (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 🗆





FMP ID: 153000019 Weslaco Stormwater Improvement Plan - West Weslaco

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

Project 4

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No □ Population at Risk

Roadways flooded

Critical Facilities Impacted

Notes:

No □

Yes □ No □

Miles inundated?

Agricultural Land impacted

Frequency of flooding:

of structures inundated

Yes 🗆 No 🗆

Project Costs

\$37,305,800 **Total Cost:** 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.

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?

(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 bee	n evaluated? Yes □ No ✓
Does the project have any negative effects, per TWE	B guidelines? Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater th	an 1? Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr floo	od 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 \square No \square
Related Goals	
✓ Increase community access routes to critical factorium routes, during and after a flooding event	ilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable of within the existing and future 100-YR floodplain	·
☐ Increase the # of communities participating in t Insurance Program	
 Decrease the average age of FEMA Flood Insura used to define SFHAs 	nce Rate Maps Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard studies with identified construction projects to hazards 	
 □ Increase participation in the regional flood plan ✓ Provide regional detention that could be used f applications or as part of a floodplain managem 	ning process Increase use of nature-based flood risk reduction projects or water reuse Develop a regionally coordinated warning and emergency
 Increase acreage of publicly protected open sparisk areas that is reused for a beneficial public unit of the publi	
 Increase outreach and education activities, spe municipal floodplain managers, hosted by Regionavailable on the website 	
 Increase the use reverse 911, TV, radio, social r billboards to communicate flood warnings, eva- shelter locations 	nedia, and Increase participation in the Community Rating System by
Reduce the # of structures that have been subjection flooding events through property buyouts	· · · · · · · · · · · · · · · · · · ·

RFPG Recommended

Yes ✓ No 🗆





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

FMP ID: 153000020

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 Infrastructure
 - restorations, etc.)

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

Project Costs

Total Cost: \$1,585,580 Study Sponsor: City of Weslaco These are one-time costs for program development, education campaign, and non-Non-reoccurring Non-capital Cost (include in Total above): engineering study costs. Estimated year to start: City of Weslaco **Entity with Oversight** 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?

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 □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
□ ✓	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 🗆





Weslaco Stormwater Improvement Plan - Pleasantview Drive and 11th Street

FMP ID: 153000021

FMP Description

Installation of 3,220 LF of new storm drain system consisting of two – 8' x 4' RCBs along Mile 3 1/2.

Project Type

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

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110228

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$4,775,000 Study Sponsor: City of Weslaco

Non-reoccurring 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.

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





For dia a Dadicate do	V = N =			or other	•	EIE land
Funding Dedicated?	Yes □ No □	(Potential)) Sou	rce of Fu	naing	FIF, local
Have the flood risk and	flood reduc	tion imp	act	ts bee	n ev	aluated?
Have the flood risk and flood reduc	tion impacts been e	evaluated?		Yes 🗆	No ✓	
Does the project have any negative	effects, per TWDB	guidelines?		Yes 🗆	No 🗆	Unknown ✓
Does the project have a Benefit Cos	st Ratio greater tha	n 1?		Yes 🗆	No 🗆	Unknown ✓
Does the project reduce flood risk f	or the 100-Yr flood	event?		Yes 🗆	No 🗆	Unknown ✓
Does the Project provide a Water S	upply Benefit?			Yes 🗆	No ✓	
Has all the ROW been acquired?				Yes 🗆	No 🗆	
Will permits or interlocal agreemen	its be needed for th	nis project?		Yes □	No 🗆	
Related Goals						
✓ Increase community access roo				Increase	the#	of entities that adopt higher than NFIP-
evacuation routes, during and				minimu		
 Reduce the # of newly constru- facilities within the existing an 				manage		aintain an operational stormwater asset lan
$\ \square$ Increase the # of communities				Increase	-	of flood gauges (rainfall/stream) in the
Flood Insurance Program Decrease the average age of Fl	EMA Flood Insuranc	ce Rate		region Increase	the#o	of entities that have multi-year drainage
Maps used to define SFHAs				CIP list		, , , , , , , , , , , , , , , , , , , ,
 Increase the coverage of availation completing studies with identifier 						of entities that integrate National Weather GS Texas Water Science Center (TXWSC)
address flooding hazards	ned construction pr	ojecis to				system information into their local
				capabili	ties to c	disseminate warnings
Increase participation in the reProvide regional detention tha						nature-based flood risk reduction projects onally coordinated warning and emergency
reuse applications or as part of			Ш	-	_	am that can detect the flood threat and
program				provide	timely	warning of impending flood danger
 Increase acreage of publicly pr flood risk areas that is reused f 						nount of publicly owned land in the region ized for future regional stormwater
11000 113K di eda tilat is l'euseu i	or a beneficial publ	iic use		infrastru		ized for future regional stormwater
☐ Increase outreach and education					-	oficiency of floodplain managers by
targeting municipal floodplain 15 RFPG and available on the v		by Region				f of them that are certified as Certified agers (CFM) with the Texas Floodplain
13 KFPG allu avallable oli tile v	vebsite			-		association
\square Increase the use reverse 911, \square					-	pation in the Community Rating System by
billboards to communicate floo	od warnings, evacua	ation				gion 15 floodplain management programs
routes, and shelter locations Reduce the # of structures that	t have been subiect	t to			•	dedicated drainage fees to implement d FMPs; incorporate noncompliance
repeated flooding events throu	-			penaltie	s; and \	who regulate development in the future
				conditio	ns floo	dplain

RFPG Recommended

Yes ✓ No 🗆





Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83

FMP ID: 153000022

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 Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes 🗆 No 🗆 Agricultural Land impacted Yes
No

Project Costs

Estimated year to start:

Time to complete?

Notes:

Total Cost: \$93,808 Study Sponsor: City of Weslaco Non-reoccurring Non-These are one-time costs for program development, education campaign, and capital Cost (include in Total non-engineering study costs. above):

Entity with Oversight City of Weslaco

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? 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 the # of entities that adopt higher than NFIP-Increase community access routes to critical facilities, evacuation routes, during and after a flooding event minimum standards Develop and maintain an operational stormwater asset Reduce the # of newly constructed vulnerable critical 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 CIP list Maps used to define SFHAs 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 response program that can detect the flood threat and reuse applications or as part of a floodplain management provide timely warning of impending flood danger program 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

RFPG Recommended

Reduce the # of structures that have been subject to

repeated flooding events through property buyouts

Yes ✓ No 🗆

future FMEs and FMPs; incorporate noncompliance

conditions floodplain

penalties; and who regulate development in the future





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

FMP ID: 153000023

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 $8' \times 4'$ RCB, and replacement of a 24 - inch culvert crossing FM 88 with an $8' \times 4'$ 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 ✓ Infrestorations, 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.) N/A

Project8

Yes ✓ No 🗆

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

Time to complete?

Total Cost: \$1,585,580 Study Sponsor: Weslaco
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 Weslaco

Included in a Hazard Mitigation 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 ✓
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 ✓
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	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
	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	Increase use of nature-based flood risk reduction projects
✓	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	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
	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 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
	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

RFPG Recommended

Yes ✓ No 🗆





North Pharr Mitigation Project

FMP ID: 153000024

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

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 Infrastructure
 - restorations, etc.)

Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110222

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.)

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Project Costs

Total Cost: \$8,195,000 Study Sponsor: City of Pharr These are one-time costs for program development, education campaign, and non-Non-reoccurring Non-capital Cost (include in Total above): engineering study costs. 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?





Funding Dedicated?	Yes □ No ✓ (Pot	ential) S	ource of Funding FIF, local
Have the flood risk and flo	· ·	s beer	n evaluated?
Have the flood risk and flood reduction	n impacts been evaluated?		Yes □ No ✓
Does the project have any negative eff	ects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost R	atio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for t	the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Supp	oly Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreements b	pe needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access router routes, during and after a flooding			Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructe within the existing and future 100	d vulnerable critical facilities		Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities par Insurance Program			Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEM. used to define SFHAs 	A Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available studies with identified construction hazards 		ng 🗆	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 regio			Increase use of nature-based flood risk reduction projects
 Provide regional detention that co applications or as part of a floodp 			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 prote risk areas that is reused for a bene 	·		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education municipal floodplain managers, he 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, billboards to communicate flood v shelter locations 		d	(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
 Reduce the # of structures that had flooding events through property 			and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes ✓ No 🗆			





Southwest Pharr Drainage Mitigation Project

FMP ID: 153000025

FMP Description

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

Project Type

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

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

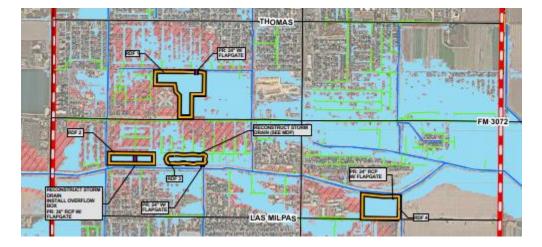
12110227

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) 0.07



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

\$5,587,280 **Total Cost:** Study Sponsor: City of Pharr 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: 2022 **Entity with Oversight** City of Pharr Time to complete? 2024 Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?





Funding Dedicated? Yes \square No	✓ (Potential) Sc	urce of Funding FIF, local
Have the flood risk and flood reduct		
Have the flood risk and flood reduction impacts been	evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDE	B guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater tha	an 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood	d 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 t	this project?	Yes □ No □
Related Goals		
✓ Increase community access routes to critical faci routes, during and after a flooding event	ilities, evacuation	Increase the # of entities that adopt higher than NFIP-minimum standards
 Reduce the # of newly constructed vulnerable cr within the existing and future 100-YR floodplain 	ritical facilities	Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the Insurance Program	ne National Flood	Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurar used to define SFHAs 	nce Rate Maps	Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard of studies with identified construction projects to a 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 plann	• .	Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used fo applications or as part of a floodplain management 		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 spacenisk areas that is reused for a beneficial public us 		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, speci municipal floodplain managers, hosted by Region 		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 mobiliboards to communicate flood warnings, evacuable 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
Reduce the # of structures that have been subject flooding events through property buyouts	ct to repeated	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended		
Yes □ No ✓		





Flood Mitigation Project

Zacate Creek Channel Improvements

Fact Sheet

FMP Description

Zacate Creek Channel Improvements.

			_	
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	ı	ect ⁻	1 V I	ノし

- 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)

FMP ID: 153000026

Infrastructure

Project Area

City/ Cities Laredo

County/ Counties Webb

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

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 Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes \square No \square

Notes:

Project Costs

Total Cost: \$700,000 Study Sponsor: City of Laredo

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 Laredo 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





Have the flood risk and flood reduction impacts been evaluated?

Hav	e 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 □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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	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
	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	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 municipal floodplain managers, hosted by Region 15 RFPG and available on the website	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase 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	and FMPs; incorporate noncompliance penalties; and who

RFPG Recommended

Yes ✓ No 🗆





NM-110 FMP ID: 153000027

FMP Description

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

Project Type

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

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Estimated year to start:

Time to complete?

Total Cost: \$906,348
Non-reoccurring Non-capital
Cost (include in Total above):

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Yes □ No □

 $\mbox{Entity with Oversight} \qquad \mbox{Hidalgo County Drainage District \#1 } \\ \mbox{Included in a Hazard Mitigation} \qquad \mbox{Yes} \quad \mbox{\checkmark} \quad \mbox{No} \ \square \\$

Action Plan or other plan?





Funding Dedicated? Yes □ No ¥	(Potential) Source of Funding FIF, local
Have the flood risk and flood reduct	on impacts been evaluated?
Have the flood risk and flood reduction impacts been e	valuated? Yes □ No ✓
Does the project have any negative effects, per TWDB g	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 the	s project? Yes □ No □
Related Goals	
Increase community access routes to critical facil	• •
routes, during and after a flooding event Reduce the # of newly constructed vulnerable cri within the existing and future 100-YR floodplain	standards tical facilities Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the	e National Flood Increase the # of flood gauges (rainfall/stream) in the region
 Insurance Program □ Decrease the average age of FEMA Flood Insuran used to define SFHAs 	ce Rate Maps Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard da studies with identified construction projects to ac hazards 	
☐ Increase participation in the regional flood plann	ng process Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for applications or as part of a floodplain manageme 	, , , , , , , , , , , , , , , , , , , ,
☐ Increase acreage of publicly protected open spac risk areas that is reused for a beneficial public use	e in critical flood \qed Increase the amount of publicly owned land in the region that
 Increase outreach and education activities, specification municipal floodplain managers, hosted by Region 	ically targeting Increase the proficiency of floodplain managers by increasing 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 me billboards to communicate flood warnings, evacuation in the communicate flood warnings.	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject flooding events through property buyouts	·
shelter locations Reduce the # of structures that have been subject	incorporate dedicated drainage fees to implement future F and FMPs; incorporate noncompliance penalties; and who





FMP ID: 153000028 NM-116

FMP Description

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

Project Type

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

Project Area

City/ Cities **Edinburg**

County/ Counties Hidalgo

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Agricultural Land impacted Yes □ No □

Notes:

Total Cost: \$567,270 Non-reoccurring Non-capital Cost (include in Total above):

Entity with Oversight

engineering study costs.

These are one-time costs for program development, education campaign, and non-Hidalgo County Drainage District #1

Hidalgo County Drainage District #1

Yes □ No □

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

Study Sponsor:

Page 1 of 2

Project Costs

Estimated year to start:

Time to complete?





NM-115 FMP ID: 153000029

FMP Description

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

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

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes 🗆 No 🗆 Agricultural Land impacted Yes 🗀 No 🗆

Notes:

Project Costs

Total Cost: \$1,937,485 Non-reoccurring Non-capital Cost (include in Total above):

Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Yes \checkmark No \square

Iuded in a Hazard Mitigation Yes ✓ N Action Plan or other plan?





Funding Dedicated?	Yes □ No ✔ (Pot	tential) Soui	rce of Fund	ing	FIF, local
Have the flood risk and flo	od reduction impact	s been (evaluat	ed î	
Have the flood risk and flood reduction	impacts been evaluated?		Yes □ No	√	
Does the project have any negative effe	cts, per TWDB guidelines?		Yes □ No	D	Unknown ✓
Does the project have a Benefit Cost Ra	tio greater than 1?		Yes □ No	D	Unknown ✓
Does the project reduce flood risk for th	ne 100-Yr flood event?		Yes □ No) [Unknown ✓
Does the Project provide a Water Suppl	y Benefit?		Yes □ No	√	
Has all the ROW been acquired?			Yes □ No	D	
Will permits or interlocal agreements be	e needed for this project?		Yes □ No	D	
Related Goals					
Increase community access routes				# of	entities that adopt higher than NFIP-minimum
routes, during and after a flooding Reduce the # of newly constructed			tandards Develop and	d mai	ntain an operational stormwater asset
within the existing and future 100			nanagemen		
Increase the # of communities par Insurance Program	ticipating in the National Flood	□ Ir	ncrease the	# 01	flood gauges (rainfall/stream) in the region
Decrease the average age of FEMA used to define SFHAs	A Flood Insurance Rate Maps	□ Ir	ncrease the	# of	entities that have multi-year drainage CIP list
 Increase the coverage of available studies with identified construction hazards 	•	S W	ervice and varning syst	USGS tem i	entities that integrate National Weather 5 Texas Water Science Center (TXWSC) flood nformation into their local capabilities to
☐ Increase participation in the region	nal flood planning process		lisseminate ncrease use		nings ature-based flood risk reduction projects
 Provide regional detention that co applications or as part of a floodpl 	uld be used for water reuse	□ D	Develop a re esponse pro	egion ograr	ally coordinated warning and emergency n that can detect the flood threat and provide f impending flood danger
☐ Increase acreage of publicly proterisk areas that is reused for a bene		d 🗆 Ir	ncrease the	amo	ount of publicly owned land in the region that or future regional stormwater infrastructure
 Increase outreach and education a municipal floodplain managers, ho 	activities, specifically targeting	□ Ir ti	ncrease the he # of ther	prof m tha	iciency of floodplain managers by increasing at are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, I billboards to communicate flood w		ı Ir e	ncrease par ncouraging	ticipa Regi	exas Floodplain Management Association ation in the Community Rating System by ion 15 floodplain management programs to
shelter locations Reduce the # of structures that ha flooding events through property	•	а	nd FMPs; ir	ncorp	cated drainage fees to implement future FMEs oorate noncompliance penalties; and who ment in the future conditions floodplain
RFPG Recommended					
Yes □ No ✓					





FMP ID: 153000030 NM-113

FMP Description

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

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

Project Area

City/ Cities **Edinburg** County/ Counties

HUC 8

Hidalgo

12110207, 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Notes:

Project Costs

Total Cost: \$643,285 Non-reoccurring Non-capital Cost (include in Total above):

Estimated year to start: Time to complete?

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and nonengineering study costs.

Yes □ No □

Hidalgo County Drainage District #1 **Entity with Oversight** Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?





Funding Dedicated? Yes 🗆 T	No 🗸 (Potential) S	Source of Funding FIF, local
Have the flood risk and flood redu	uction impacts bee	n evaluated?
Have the flood risk and flood reduction impacts be	een evaluated?	Yes □ No ✓
Does the project have any negative effects, per TW	VDB 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 flo	ood 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	or this project?	Yes □ No □
Related Goals		
✓ Increase community access routes to critical routes, during and after a flooding event	facilities, evacuation	Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable within the existing and future 100-YR floodpl		Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Instrused to define SFHAs 	urance Rate Maps	Increase the # of entities that have multi-year drainage CIP list
Increase the coverage of available flood hazar studies with identified construction projects 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
$\hfill \Box$ Increase participation in the regional flood pl		Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used applications or as part of a floodplain manage 		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 s risk areas that is reused for a beneficial public	•	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
☐ Increase outreach and education activities, sp municipal floodplain managers, hosted by Re	pecifically targeting \qed	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 billboards to communicate flood warnings, evaluate 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
Reduce the # of structures that have been su flooding events through property buyouts	ubject to repeated	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended		
Yes ✓No □		





NM-105 FMP ID: 153000031

FMP Description

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

Project Type

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

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk #of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Estimated year to start:

Time to complete?

Total Cost: \$912,279
Non-reoccurring Non-capital
Cost (include in Total above):

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Yes □ No □

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Yes \checkmark No \square

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

Page 1 of 2





Funding Dedicated? Yes □ No ¥	(Potential) Source of Funding FIF, local
Have the flood risk and flood reduct	on impacts been evaluated?
Have the flood risk and flood reduction impacts been e	valuated? Yes □ No ✓
Does the project have any negative effects, per TWDB g	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 the	s project? Yes □ No □
Related Goals	
Increase community access routes to critical facil	• •
routes, during and after a flooding event Reduce the # of newly constructed vulnerable cri within the existing and future 100-YR floodplain	standards tical facilities Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the	e National Flood Increase the # of flood gauges (rainfall/stream) in the region
 Insurance Program □ Decrease the average age of FEMA Flood Insuran used to define SFHAs 	ce Rate Maps Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard da studies with identified construction projects to ac hazards 	
☐ Increase participation in the regional flood plann	ng process Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for applications or as part of a floodplain manageme 	, , , , , , , , , , , , , , , , , , , ,
☐ Increase acreage of publicly protected open spac risk areas that is reused for a beneficial public use	e in critical flood \qed Increase the amount of publicly owned land in the region that
 Increase outreach and education activities, specification municipal floodplain managers, hosted by Region 	ically targeting Increase the proficiency of floodplain managers by increasing 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 me billboards to communicate flood warnings, evacuation in the communicate flood warnings.	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject flooding events through property buyouts	·
shelter locations Reduce the # of structures that have been subject	incorporate dedicated drainage fees to implement future F and FMPs; incorporate noncompliance penalties; and who





NM-106 FMP ID: 153000032

FMP Description

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

Project Type

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

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk #of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Total Cost: \$693,610
Non-reoccurring Non-capital
Cost (include in Total above):

Estimated year to start:

Time to complete?

engineering

Include in Total above):

engineering

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Yes ✓ No □
Action Plan or other plan?

Yes □ No □

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Funding	Dedicated?	Yes □ No ✓	(Potential) So	ource of Fund	ding	FIF, local
Have t	the flood risk and floo	d reduction im	pacts beer	n evaluat	ted?	
Have the	e flood risk and flood reduction in	npacts been evaluated?		Yes □ No	lo √	
Does the	e project have any negative effect	ts, per TWDB guidelines	?	Yes □ No	lo 🗆	Unknown ✓
Does the	e project have a Benefit Cost Ratio	o greater than 1?		Yes □ N	lo 🗆	Unknown ✓
Does the	e project reduce flood risk for the	100-Yr flood event?		Yes □ No	lo 🗆	Unknown ✓
Does the	e Project provide a Water Supply	Benefit?		Yes 🗆 No	lo √	
Has all t	he ROW been acquired?			Yes □ No	lo 🗆	
Will per	mits or interlocal agreements be	needed for this project?		Yes 🗆 No	lo 🗆	
Relate	d Goals					
	rease community access routes t		uation \square		e#of	entities that adopt higher than NFIP-minimum
	utes, during and after a flooding educe the # of newly constructed to		ties 🗆	standards Develop an	ıd mai	ntain an operational stormwater asset
wit	thin the existing and future 100-Y	'R floodplain		manageme	nt pla	n
	rease the # of communities parti urance Program	cipating in the National	Flood	Increase the	e#of	flood gauges (rainfall/stream) in the region
□ De	crease the average age of FEMA ed to define SFHAs	Flood Insurance Rate M	aps 🗆	Increase the	e#of	entities that have multi-year drainage CIP list
stu	rease the coverage of available fl dies with identified construction zards	•		Service and	d USGS stem i	entities that integrate National Weather 5 Texas Water Science Center (TXWSC) flood nformation into their local capabilities to nings
	rease participation in the regiona					ature-based flood risk reduction projects
	ovide regional detention that coul plications or as part of a floodpla			response pr	rograr	ally coordinated warning and emergency n that can detect the flood threat and provide f impending flood danger
	rease acreage of publicly protect		I flood	Increase the	e amo	ount of publicly owned land in the region that
□ Inc	c areas that is reused for a benefi rease outreach and education ac unicipal floodplain managers, hos	tivities, specifically targ	•	Increase the the # of the	e prof em tha	r future regional stormwater infrastructure iciency of floodplain managers by increasing at are certified as Certified Floodplain Manager
□ Inc	ailable on the website rease the use reverse 911, TV, ra boards to communicate flood wa		\Box es, and	Increase pa	articipa	exas Floodplain Management Association ation in the Community Rating System by ion 15 floodplain management programs to
□ Re	elter locations duce the # of structures that have oding events through property be	•	ted	and FMPs; i	incorp	cated drainage fees to implement future FMEs orate noncompliance penalties; and who ment in the future conditions floodplain
RFPG I	Recommended					
V	NI- /					





FMP ID: 153000033

Drain C-Right Culvert Improvements

FMP Description

This alternative proposes to add 3 - 72" pipes to the 54" pipe existing along Paso Real Highway (formerly Helen Moore Road) from south of the railroad to north of Business 77. Rather than use multiple pipes a single 10'x10' box culvert is proposed with 3 - 72" CMPs under the railroad track.

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

Project Area

City/ Cities

County/ Counties Cameron

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

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 Yes ✓ No 🗆 Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Estimated year to start:

Time to complete?

Total Cost: \$6,291,880 Non-reoccurring Non-capital Cost (include in Total above):

Study Sponsor: Cameron County Drainage District No. 3 These are one-time costs for program development, education campaign, and nonengineering study costs.

Yes □ No □

Entity with Oversight Cameron County Drainage District No. 3 Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?





Drain F-23 Culvert Improvements

FMP ID: 153000034

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Funding Dedicated?

Replace existing 48" RCP at Williams Road and 36" RCP at Irene Street with 6'x6' RCB. See 2010 ESPEY 6.2.7 Alternative 7. page 41

Project Type								
Structural Project (re low water crossing, improvements, etc.)	flow structu					•		ment acquisitions, g, early warn systems)
Nature Based (Struc restorations, etc.)	tural) Projec	ts (wetlan	ds, biosw	ales, river	✓ Infrastructu	ire		
Project Area City/ Cities								
County/ Counties	Cameron							
HUC 8	12110207,							
	12110258							
HUC 12	121102080	100,						
	121102080	300,						
	130900020	311						
Study Area (sq. mi.)	N/A							
Emergency Need Yes ✓ No □								
Known Flood Risk	(
History of Flooding? Population at Risk		Yes ✓	No □		requency of flooding structures inundate			
Roadways flooded Critical Facilities Im Notes:	pacted	Yes ✓ Yes □	No □ No □	Agricu	Miles inundated ultural Land impacte		No 🗆	
Project Costs								
Total Cost: Non-reoccurring Non-cap Cost (include in Total above Estimated year to start:		\$30	53,667	engineering stud	Study Sponson State of the costs for program State of the costs of the	n developmei	nt, education o	nage District No. 3 campaign, and non-
Time to complete?				Included ir	n a Hazard Mitigation n Plan or other plan	n Yes ✓	•	

Yes □ No ✓

(Potential) Source of Funding FIF, local





Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ 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 	$\hfill \square$ 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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 	 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 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
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	

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Yes □ No ✓





NM-103 FMP ID: 153000035

FMP Description

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

Project Type

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

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk #of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Total Cost: \$2,047,160
Non-reoccurring Non-capital
Cost (include in Total above):

Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Yes \checkmark No \square

Yes □ No □

Action Plan or other plan?





NM-102 FMP ID: 153000036

FMP Description

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

Project Type

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

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes No Agricultural Land impacted Yes No

Notes:

Project Costs

Total Cost: \$4,756,150

Non-reoccurring Non-capital These are one-t
Cost (include in Total above): engineering stu

Estimated year to start: Entity with Oversight Time to complete? Included in a Hazard Mitigation

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 d in a Hazard Mitigation Yes ✓ No □

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





Funding Dedicated?	Yes □ No ✓	(Potential) So	ource of Funding	FIF, local
Have the flood risk ar	nd flood reduction impa	acts beer	n evaluated?)
Have the flood risk and flood re	duction impacts been evaluated?		Yes □ No ✓	
Does the project have any nega	tive 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 r	isk for the 100-Yr flood event?		Yes □ No □	Unknown ✓
Does the Project provide a Wat	er Supply Benefit?		Yes □ No ✓	
Has all the ROW been acquired	?		Yes □ No □	
Will permits or interlocal agree	ments be needed for this project?		Yes □ No □	
Related Goals				
✓ Increase community access routes, during and after a	ss routes to critical facilities, evacua	ntion \square	Increase the # of standards	entities that adopt higher than NFIP-minimum
_	nstructed vulnerable critical facilitie	S 🗆		ntain an operational stormwater asset
•	nities participating in the National Fl	lood 🗆		flood gauges (rainfall/stream) in the region
-	of FEMA Flood Insurance Rate Map	os 🗆	Increase the # of	entities that have multi-year drainage CIP list
	vailable flood hazard data by compl nstruction projects to address flood	-	Service and USG	entities that integrate National Weather 5 Texas Water Science Center (TXWSC) flood nformation into their local capabilities to nings
· · ·	he regional flood planning process			ature-based flood risk reduction projects
_	n that could be used for water reuse a floodplain management program		response prograi	ally coordinated warning and emergency m that can detect the flood threat and provide f impending flood danger
 Increase acreage of public risk areas that is reused for 	cly protected open space in critical f or a beneficial public use	lood 🗆	Increase the amo	ount of publicly owned land in the region that or future regional stormwater infrastructure
municipal floodplain mana	ucation activities, specifically target agers, hosted by Region 15 RFPG an	J	the # of them tha	ficiency of floodplain managers by increasing at are certified as Certified Floodplain Managers
	911, TV, radio, social media, and e flood warnings, evacuation routes,	, and	Increase particip encouraging Reg	exas Floodplain Management Association ation in the Community Rating System by ion 15 floodplain management programs to cated drainage fees to implement future FMEs
	s that have been subject to repeate roperty buyouts	d	and FMPs; incorp	porate noncompliance penalties; and who ment in the future conditions floodplain
RFPG Recommended				
Yes □ No ✓				





FMP ID: 153000037

Drain D Channel Improvements

FMP Description

Drain D Channel Improvements

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

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Time to complete?

Total Cost: \$3,756,840 Study Sponsor: Cameron County Drainage District No. 3

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 Cameron County Drainage District No. 3

Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding 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	☐ 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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	☐ 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 municipal floodplain managers, hosted by Region 15 RFPG and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
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
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
RFPG Recommended	





NM-108 FMP ID: 153000038

FMP Description

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

Project Type

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

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk #of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

\$4,689,680

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1

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

engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 ad in a Hazard Mitigation Yes ✓ No □

Yes □ No □

Included in a Hazard Mitigation
Action Plan or other plan?





Funding L	Dedicated?	Yes □ No ¥	(Potential) So	ource of Fundi	ng FIF, loc	aı		
Have th	ne flood risk and floo	d reduction imp	acts beer	n evaluate	ed?			
Have the	flood risk and flood reduction ir	mpacts been evaluated?		Yes □ No	✓			
Does the	project have any negative effec	ts, per TWDB guidelines?		Yes □ No	□ Unknow	n 🗸		
Does the	project have a Benefit Cost Rati	o greater than 1?		Yes □ No	□ Unknow	n ✓		
Does the	project reduce flood risk for the	100-Yr flood event?		Yes □ No	□ Unknow	n 🗸		
Does the	Project provide a Water Supply	Benefit?		Yes □ No	✓			
Has all th	e ROW been acquired?			Yes □ No				
Will perm	its or interlocal agreements be	needed for this project?		Yes □ No				
Related	l Goals							
	ease community access routes tes, during and after a flooding		ation \square	Increase the standards	# of entities	that adopt highe	er than NFIP-mini	mum
Red	uce the # of newly constructed	vulnerable critical facilitie	es 🗆	Develop and		operational sto	rmwater asset	
□ Incr	in the existing and future 100-\ ease the # of communities part		lood 🗆	management Increase the	•	uges (rainfall/st	ream) in the regi	ion
□ Deci	rance Program rease the average age of FEMA I to define SFHAs	Flood Insurance Rate Ma	ps 🗆	Increase the	# of entities	that have multi-	year drainage CIF	اist ع
□ Incre	ease the coverage of available flies with identified construction	, ,	Ü	Service and U	JSGS Texas V em informat	Water Science Co	lational Weather enter (TXWSC) flo cal capabilities to	ood
	ease participation in the region				•	ised flood risk re	eduction projects	;
	ride regional detention that cou ications or as part of a floodpla			response pro	gram that ca		g and emergency ood threat and pr	
	ease acreage of publicly protect areas that is reused for a benef		flood 🗆	Increase the	amount of p	ublicly owned la	 and in the region vater infrastructu	
□ Incre	ease outreach and education ac iicipal floodplain managers, hos	ctivities, specifically targe	•	Increase the the # of them	proficiency on that are cer	of floodplain ma rtified as Certifie	nagers by increased Floodplain Mar	sing nagers
☐ Increbillb	lable on the website ease the use reverse 911, TV, ra oards to communicate flood wa		\Box s, and	Increase part encouraging	icipation in t Region 15 flo	the Community oodplain manag	ment Associatior Rating System by ement programs	y s to
□ Red	ter locations uce the # of structures that hav ding events through property b	•	ed	and FMPs; in	corporate no	oncompliance p	nplement future enalties; and who itions floodplain	0
	ecommended	ayouts		regulate deri				





NM-109 FMP ID: 153000039

FMP Description

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

Project Type

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

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk #of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

\$1,247,580

Notes:

Project Costs

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

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Yes □ No □

Entity with Oversight Hidalgo Count Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Hidalgo County Drainage District #1





Funding Dedicated?	Yes □ No ✓	(Potential) So	ource of Funding	FIF, local
Have the flood i	risk and flood reduction imp	acts beer	n evaluated ?)
Have the flood risk and	I 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 reduc	e flood risk for the 100-Yr flood event?		Yes □ No □	Unknown √
Does the Project provid	de a Water Supply Benefit?		Yes □ No ✓	
Has all the ROW been a	acquired?		Yes □ No □	
Will permits or interloc	cal agreements be needed for this project?		Yes 🗆 No 🗆	
Related Goals				
	nity access routes to critical facilities, evacu	ation \square	Increase the # of	entities that adopt higher than NFIP-minimum
routes, during an	d after a flooding event		standards	, -
	ewly constructed vulnerable critical faciliting and future 100-YR floodplain	es 🗆	Develop and mai management pla	ntain an operational stormwater asset
	communities participating in the National F	Flood 🗆		flood gauges (rainfall/stream) in the region
_	rage age of FEMA Flood Insurance Rate Ma	ips 🗆	Increase the # of	entities that have multi-year drainage CIP list
	rage of available flood hazard data by comp tified construction projects to address flood	-	Service and USGS	entities that integrate National Weather S Texas Water Science Center (TXWSC) flood nformation into their local capabilities to nings
	ation in the regional flood planning process			ature-based flood risk reduction projects
•	detention that could be used for water reus part of a floodplain management program		response program	ally coordinated warning and emergency m that can detect the flood threat and provide f impending flood danger
	of publicly protected open space in critical	flood \square	Increase the amo	ount of publicly owned land in the region that
Increase outreach municipal floodpl	reused for a beneficial public use n and education activities, specifically targe lain managers, hosted by Region 15 RFPG a	-	Increase the prof the # of them tha	or future regional stormwater infrastructure ficiency of floodplain managers by increasing at are certified as Certified Floodplain Managers
available on the v	vebsite reverse 911, TV, radio, social media, and		•	exas Floodplain Management Association ation in the Community Rating System by
	municate flood warnings, evacuation route	s, and	encouraging Reg	ion 15 floodplain management programs to cated drainage fees to implement future FMEs
☐ Reduce the # of s	tructures that have been subject to repeaton rough property buyouts	ed	and FMPs; incorp	porate noncompliance penalties; and who ment in the future conditions floodplain
RFPG Recomme	ended			
Vac 🗆 Na 🏑				





Alt_RetireeHeaven

FMP Description

Alt_RetireeHeaven_S10th

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- 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)

Yes 🗆 No 🗆

FMP ID: 153000040

✓ Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk #of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Time to complete?

Total Cost: \$4,360,910 Study Sponsor: McAllen

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 McAllen

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





Funding	Dedicated?	Yes □ No ¥	(Potential) So	ource of Fundi	ng FIF,	local		
Have t	he flood risk and floo	d reduction imp	acts beer	n evaluate	ed?			
Have the	e flood risk and flood reduction in	mpacts been evaluated?		Yes □ No	✓			
Does the	e project have any negative effec	ts, per TWDB guidelines?		Yes □ No	□ Unkn	own √		
Does the	e project have a Benefit Cost Rati	o greater than 1?		Yes □ No	□ Unkn	own √		
Does the	e project reduce flood risk for the	e 100-Yr flood event?		Yes □ No	□ Unkn	own √		
Does the	e Project provide a Water Supply	Benefit?		Yes □ No	✓			
Has all tl	ne ROW been acquired?			Yes □ No				
Will perr	mits or interlocal agreements be	needed for this project?		Yes □ No				
Relate	d Goals							
	rease community access routes tes, during and after a flooding		ation \square	Increase the standards	# of entiti	ies that adopt h	igher than NFIP-	minimum
□ Red	duce the # of newly constructed hin the existing and future 100-	vulnerable critical facilitie	es 🗆			an operational	stormwater ass	et
□ Inc	rease the # of communities part urance Program		·lood 🗆	-	•	l gauges (rainfa	ll/stream) in the	region
□ Dec	crease the average age of FEMA to define SFHAs	Flood Insurance Rate Ma	ps 🗆	Increase the	# of entiti	ies that have m	ulti-year drainag	e CIP list
stu	rease the coverage of available fl dies with identified construction ards		Ü	Service and U	JSGS Texa em inforn	as Water Scienc	te National Wea ce Center (TXWS r local capabilition	C) flood
□ Pro	rease participation in the region wide regional detention that cou plications or as part of a floodpla	ld be used for water reus		Develop a repression response pro	gionally c ogram tha	oordinated wa	sk reduction pro rning and emerg e flood threat an	ency
	rease acreage of publicly protect	· ·	flood 🗆	Increase the	amount o	of publicly own	ed land in the re rmwater infrasti	
☐ Inc	rease outreach and education ac nicipal floodplain managers, hos nilable on the website	ctivities, specifically targe	•	Increase the the # of them	proficien n that are	cy of floodplain certified as Cer	managers by in- tified Floodplain agement Associ	creasing Managers
☐ Inc	rease the use reverse 911, TV, ra boards to communicate flood wa		\Box s, and	Increase part encouraging	ticipation Region 15	in the Commu 5 floodplain ma	nity Rating Syste inagement progr	m by rams to
□ Red	elter locations duce the # of structures that hav oding events through property b	, ,	ed	and FMPs; in	corporate	e noncomplian	to implement fu ce penalties; and onditions floodp	l who
RFPG F	Recommended							
1 = >	INLIT							





Alt West 107 FMP ID: 153000041

FMP Description

Alt_West_107

Proi	ject -	Γ_{VD}	2
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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes 🗆 No 🗆 Agricultural Land impacted Yes 🗀 No 🗆

Notes:

Project Costs

Total Cost: \$18,678,150 Study Sponsor: McAllen

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 McAllen

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





Yes □ No □ Unknown ✓ Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No ✓
Yes □ No □
Yes □ No □
☐ Increase the # of entities that adopt higher than NFIP-minimum
standards Develop and maintain an operational stormwater asset management plan
☐ Increase the # of flood gauges (rainfall/stream) in the region
☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase use of nature-based flood risk reduction projects
 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
(CFM) with the Texas Floodplain Management Association ☐ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





2023 Bond Project 24 - F-13 F02

FMP ID: 153000042

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+IVI	Р	Desc	rın	tion

This project is approximately 4.7 miles of channel improvements includes widening ditches F-13 and F-02 within existing right of way, from Hwy 281 to Floodway Levee.

Project Type

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

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$1,460,000.00 Study Sponsor: Hidalgo County Drainage District No. 1

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 Hidalgo County Drainage District No. 1

Time to complete? Included in a Hazard Mitigation Yes \checkmark No \Box

Action Plan or other plan?

Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding FIF, local





Have the flood risk and flood reduction impacts been evaluated?

Hav	e 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 □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	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	and FMPs; incorporate noncompliance penalties; and who

RFPG Recommended

Yes ✓ No 🗆





Flood Mitigation Project

2018 Bond Project 34 South Lateral

Fact Sheet

FMP Description

This project proposes three detention pond on the both side of East Las Milpas Rd. The proposed project also includes channel widening. The project cost is approximately \$4,538,85 2which resulted in a benefit cost ratio of 0.5.

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Dro	ject ⁻	$I \setminus I \cap C$
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- 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)

FMP ID: 153000043

Infrastructure

Project Area

City/ Cities Las Milpas

County/ Counties Hidalgo

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

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 Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes 🗆 No 🗆 Notes:

Project Costs

Total Cost: \$4,538,852.00 Hidalgo County Drainage District No. 1 Study Sponsor: 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** Hidalgo County Drainage District No. 1 Time to complete? 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?

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 ✓
Has	all the ROW been acquired?	Yes □ No □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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	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 municipal floodplain managers, hosted by Region 15 RFPG and available on the website	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase 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 🗆





Flood Mitigation Project

13th Street Regional Detention Facility FMP ID: 153000044

Fact Sheet

FMP Description

13th Street Regional Detention Facility

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- 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

Harlingen City/ Cities County/ Counties Cameron

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ Frequency of flooding: Population at Risk # of structures inundated Roadways flooded Miles inundated? Yes ✓ No 🗆

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

Notes:

Project Costs

Total Cost: \$19,812,000 Study Sponsor: Harlingen 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 Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆

Time to complete? Action Plan or other plan?



Yes ✓ No ✓



Fund	ding Dedicated?	Yes □ No ✓	(Potential) So	ource of F	unding	FIF, local
Hav	re the flood risk and floo	od reduction imp	acts beer	n evalu	ated	?
Have	e the flood risk and flood reduction in	mpacts been evaluated?		Yes □	No ✓	
Doe	s the project have any negative effec	ts, per TWDB guidelines?	•	Yes □	No □	Unknown ✓
Doe	s the project have a Benefit Cost Rati	o greater than 1?		Yes □	No □	Unknown ✓
Doe	s the project reduce flood risk for the	e 100-Yr flood event?		Yes □	No □	Unknown ✓
Doe	s 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 □	
Rela	ated Goals					
✓	Increase community access routes		uation \square			f entities that adopt higher than NFIP-minimum
	routes, during and after a flooding Reduce the # of newly constructed		ies 🗆	standard Develop		uintain an operational stormwater asset
	within the existing and future 100-			manager		·
	Increase the # of communities part Insurance Program	icipating in the National	Flood	Increase	the # o	f flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA used to define SFHAs	Flood Insurance Rate Ma	aps 🗆	Increase	the # o	f entities that have multi-year drainage CIP list
	Increase the coverage of available f studies with identified construction hazards			Service a	and USG system	f entities that integrate National Weather S Texas Water Science Center (TXWSC) flood information into their local capabilities to rnings
	Increase participation in the region			Increase	use of	nature-based flood risk reduction projects
	Provide regional detention that cou applications or as part of a floodpla			response	e progra	nally coordinated warning and emergency om that can detect the flood threat and provide of impending flood danger
	Increase acreage of publicly protecrisk areas that is reused for a benef		l flood 🗆	Increase	the am	ount of publicly owned land in the region that or future regional stormwater infrastructure
	Increase outreach and education ad	ctivities, specifically targe	-	Increase	the pro	ficiency of floodplain managers by increasing
	municipal floodplain managers, hos available on the website	sted by Region 15 RFPG a	and			at are certified as Certified Floodplain Managers Texas Floodplain Management Association
	Increase the use reverse 911, TV, ra			Increase	particip	pation in the Community Rating System by
	billboards to communicate flood was shelter locations	armings, evacuation route	es, and			gion 15 floodplain management programs to licated drainage fees to implement future FMEs
	Reduce the # of structures that hav flooding events through property b	,	ted	and FMP	s; incor	porate noncompliance penalties; and who pment in the future conditions floodplain
RFP	G Recommended					





3rd Street Regional Detention Facility FMP ID: 153000045

FMP Description

3rd Street Regional Detention Facility

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

Project Area

City/ Cities Harlingen County/ Counties Cameron

HUC8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Notes:

Project Costs

Time to complete?

\$13,092,000 Study Sponsor: Harlingen 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**

Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆

Yes □ No □

Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓	(Potential) S	ource of Funding FIF, local
Have the flood risk and floo	od reduction im	pacts beer	n evaluated?
Have the flood risk and flood reduction i	mpacts been evaluated?		Yes □ No ✓
Does the project have any negative effect	cts, per TWDB guidelines	?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Rat	io greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for the	e 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 routes, during and after a flooding		uation \square	Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed within the existing and future 100-	l vulnerable critical facili	ties 🗆	Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities part Insurance Program	·	Flood	Increase the # of flood gauges (rainfall/stream) in the region
Decrease the average age of FEMA used to define SFHAs	Flood Insurance Rate M	laps 🗆	Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available is studies with identified construction 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 region			Increase use of nature-based flood risk reduction projects
 Provide regional detention that cou applications or as part of a floodpla 			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 protective risk areas that is reused for a bene		al flood	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education a municipal floodplain managers, ho 	ctivities, specifically targ		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, r billboards to communicate flood w shelter locations		es, and	(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
☐ Reduce the # of structures that have flooding events through property by		ted	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes ✓No □			





System 23 Regional Detention Facility

FMP ID: 153000046

FMP Description

System 23 Regional Detention Facility

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

Project Area

City/ Cities Harlingen County/ Counties Cameron HUC8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Notes:

Project Costs

Cost (include in Total above):

Estimated year to start:

Time to complete?

\$1,600,000 Study Sponsor: Harlingen Non-reoccurring Non-capital

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

Yes □ No □

Entity with Oversight Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Po	otential) Source of Funding FIF, local
Have the flood risk and floo	d reduction impact	ts been 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 I	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 e		on Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed within the existing and future 100-Y	ulnerable critical facilities	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities partice Insurance Program	cipating in the National Flood	od Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA F used to define SFHAs 	Flood Insurance Rate Maps	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flo studies with identified construction hazards		
☐ Increase participation in the regiona		☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that coul- applications or as part of a floodplai 		 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 protect risk areas that is reused for a benefi	· ·	
 Increase outreach and education act municipal floodplain managers, host 		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
available on the website ☐ Increase the use reverse 911, TV, rai billboards to communicate flood was shelter locations		 Increase participation in the Community Rating System by
Reduce the # of structures that have flooding events through property but	•	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended Yes ✓ No□		





Wilson-Morgan Regional Detention Facility

FMP ID: 153000047

FMP Description

Wilson-Morgan Regional Detention Facility

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- 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

Harlingen City/ Cities County/ Counties Cameron

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ Frequency of flooding: Population at Risk # of structures inundated Roadways flooded Miles inundated? Yes ✓ No 🗆

Critical Facilities Impacted Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Cost (include in Total above):

Estimated year to start:

Time to complete?

Total Cost: \$8,600,000 Study Sponsor: Harlingen Non-reoccurring Non-capital

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

> **Entity with Oversight** Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆

Yes □ No □

Action Plan or other plan?





Fundir	ng Dedicated?	Yes □ No ✓	(Potential) So	ource of Funding	FIF, local
Have	the flood risk and floo	od reduction im	pacts beer	n evaluated	?
Have t	the flood risk and flood reduction in	mpacts been evaluated?		Yes □ No ✓	
Does t	the project have any negative effec	ts, per TWDB guidelines	?	Yes □ No □	Unknown ✓
Does t	the project have a Benefit Cost Rati	o greater than 1?		Yes □ No □	Unknown ✓
Does t	the project reduce flood risk for the	e 100-Yr flood event?		Yes □ No □	Unknown ✓
Does t	the Project provide a Water Supply	Benefit?		Yes □ No ✓	
Has al	I the ROW been acquired?			Yes □ No □	
Will pe	ermits or interlocal agreements be	needed for this project?	1	Yes □ No □	
Relat	ed Goals				
	ncrease community access routes	•	uation		f entities that adopt higher than NFIP-minimum
	outes, during and after a flooding Reduce the # of newly constructed		ties 🗆	standards Develop and ma	intain an operational stormwater asset
	vithin the existing and future 100-		_	management pla	
	ncrease the # of communities part nsurance Program	icipating in the Nationa	Flood	Increase the # o	f flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA used to define SFHAs	Flood Insurance Rate M	laps \square	Increase the # of	f entities that have multi-year drainage CIP list
S	ncrease the coverage of available f tudies with identified construction nazards		-	Service and USG	f entities that integrate National Weather is Texas Water Science Center (TXWSC) flood information into their local capabilities to
•	id Edi d 3			disseminate war	·
	ncrease participation in the region	, , ,			nature-based flood risk reduction projects
	Provide regional detention that country in the provide regional detections or as part of a floodplate in the provided regions of the provided regions and the provided regional detection in the provided region in the provide			response progra	nally coordinated warning and emergency om that can detect the flood threat and provide of impending flood danger
	ncrease acreage of publicly protec		al flood	Increase the am	ount of publicly owned land in the region that
	isk areas that is reused for a benef ncrease outreach and education a		eting 🗆		or future regional stormwater infrastructure ficiency of floodplain managers by increasing
r	nunicipal floodplain managers, ho			the # of them th	at are certified as Certified Floodplain Managers
	evailable on the website	ndia sasial madia and			Fexas Floodplain Management Association
t	ncrease the use reverse 911, TV, ra billboards to communicate flood wa chelter locations		es, and	encouraging Reg	pation in the Community Rating System by gion 15 floodplain management programs to icated drainage fees to implement future FMEs
	Reduce the # of structures that have looding events through property b		ted	and FMPs; incor	porate noncompliance penalties; and who pment in the future conditions floodplain
RFPG	Recommended				
Yes ✓	Ńo □				





Jefferson Regional Detention Facility

FMP Description

Jefferson Regional Detention Facility

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- 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)

FMP ID: 153000048

Infrastructure

Project Area

City/ Cities Harlingen County/ Counties Cameron

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Notes:

Project Costs

Time to complete?

\$13,092,000 Study Sponsor: Harlingen 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 Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?

Yes □ No □





Funding Dedicated?	Yes □ No ✔ (Pot	ential) So	ource of Funding FIF, local
Have the flood risk and floo	od reduction impacts	s beer	n evaluated?
Have the flood risk and flood reduction i	mpacts been evaluated?		Yes □ No ✓
Does the project have any negative effect	cts, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Rat	io greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for the	e 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 routes, during and after a flooding			Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed within the existing and future 100-	vulnerable critical facilities		Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities part Insurance Program	•		Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA used to define SFHAs 	Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available f studies with identified construction hazards 		g 🗆	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 region			Increase use of nature-based flood risk reduction projects
 Provide regional detention that cou applications or as part of a floodpla 			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 protective risk areas that is reused for a bene			Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education a municipal floodplain managers, ho available on the website 	ctivities, specifically targeting		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, r billboards to communicate flood w shelter locations		I	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 flooding events through property by	•		and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes ✓ No 🗆			





West Street 10x10 Box Culvert

FMP ID: 153000049

FMP Description

West Street 10x10 Box Culvert

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

Project Area

City/ Cities Harlingen County/ Counties Cameron HUC8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Notes:

Project Costs

Time to complete?

\$19,201,000 Study Sponsor: Harlingen 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 Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?

Yes 🗆 No 🗆





Funding Dedicated?	Yes □ No ✔ (Pot	tential) So	ource of Funding FIF, local
Have the flood risk and	d flood reduction impact	s beer	n evaluated?
Have the flood risk and flood redu	uction impacts been evaluated?		Yes □ No ✓
Does the project have any negative	ve effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit C	ost 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 agreeme	ents be needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access routes, during and after a flo	routes to critical facilities, evacuation	n 🗆	Increase the # of entities that adopt higher than NFIP-minimum standards
,	ructed vulnerable critical facilities		Develop and maintain an operational stormwater asset management plan
_	es participating in the National Flood		Increase the # of flood gauges (rainfall/stream) in the region
	f FEMA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
<u> </u>	ailable flood hazard data by completin truction projects to address flooding	g 🗆	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
	regional flood planning process		Increase use of nature-based flood risk reduction projects
S .	hat could be used for water reuse loodplain management program		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 risk areas that is reused for 	protected open space in critical flood	d 🗆	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and educ municipal floodplain manag 	ation activities, specifically targeting ers, 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 913	1, TV, radio, social media, and		(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate f shelter locations	lood warnings, evacuation routes, and	b	encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
	hat have been subject to repeated perty buyouts		and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Vac. / Na 🗆			





FMP ID: 153000050

Joint Use Irrigation Canal No. 1

FMP Description

Joint Use Irrigation Canal No. 1

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	ı	iect ⁻	IVDC

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

Project Area

City/ Cities Harlingen County/ Counties Cameron

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Notes:

Project Costs

Estimated year to start:

Time to complete?

\$13,790,000 Study Sponsor: Harlingen

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** Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆

Yes 🗆 No 🗆





Funding Dedicated?	Yes □ No ¥ (Po	otential) So	burce of Funding FIF, local
Have the flood risk and	I flood reduction impac	ts beer	n evaluated?
Have the flood risk and flood redu	ction impacts been evaluated?		Yes □ No ✓
Does the project have any negative	e effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Co	ost 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 agreeme	ents be needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access routes, during and after a flo	routes to critical facilities, evacuatio	n 🗆	Increase the # of entities that adopt higher than NFIP-minimum standards
,	ructed vulnerable critical facilities		Develop and maintain an operational stormwater asset management plan
_	es participating in the National Floo	d 🗆	Increase the # of flood gauges (rainfall/stream) in the region
_	FEMA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
<u> </u>	ilable flood hazard data by completing ruction projects to address flooding	Ū	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
	regional flood planning process		Increase use of nature-based flood risk reduction projects
•	hat could be used for water reuse loodplain management program		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 risk areas that is reused for a	protected open space in critical floo a beneficial public use	od 🗆	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and educa municipal floodplain manage 	ation activities, specifically targeting ers, 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		(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
	ood warnings, evacuation routes, an	ıd	encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
	hat have been subject to repeated perty buyouts		and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Vac. / Na 🗆			





FMP ID: 153000051

Floodway Pump Stations (Cantu)

FMP Description

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

Project Type

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

Project Area

City/ Cities -

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$2,360,700 Study Sponsor: Cameron County Drainage District No. 6

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 Cameron County Drainage District No. 6



Yes ✓ No



Flood Mitigation Project Fact Sheet

Time to complete?	Ir		lazard Mitigati an or other pla		✓ No 🗆		
Funding Dedicated? Yes	□ No ✓		ource of Fund		ocal		
Have the flood risk and flood re	duction impa	icts been	evaluate	d?			
Have the flood risk and flood reduction impact	s been evaluated?		Yes 🗆 No	✓			
Does the project have any negative effects, pe	TWDB guidelines?		Yes □ No	□ Unkno	wn √		
Does the project have a Benefit Cost Ratio grea	ater than 1?		Yes □ No	□ Unkno	wn √		
Does the project reduce flood risk for the 100-	Yr flood event?		Yes □ No	□ Unkno	wn √		
Does the Project provide a Water Supply Bene	fit?		Yes 🗆 No	✓			
Has all the ROW been acquired?			Yes □ No				
Will permits or interlocal agreements be neede	ed for this project?		Yes □ No				
Related Goals							
✓ Increase community access routes to crit routes, during and after a flooding event Reduce the # of newly constructed vulne within the existing and future 100-YR floo Increase the # of communities participations Insurance Program	rable critical facilitie odplain	S 🗆	standards Develop and managemen	maintain a t plan	in operational s	gher than NFIP-minimun stormwater asset /stream) in the region	n
 Decrease the average age of FEMA Flood used to define SFHAs 	Insurance Rate Map	os 🗆	Increase the	# of entitie	s that have mul	lti-year drainage CIP list	
☐ Increase the coverage of available flood h studies with identified construction proje hazards			Service and l	JSGS Texas em informa	Water Science	e National Weather Center (TXWSC) flood local capabilities to	
 Increase participation in the regional floo Provide regional detention that could be applications or as part of a floodplain ma 	used for water reuse	<u> </u>	Develop a re response pro	gionally co gram that	ordinated warn	reduction projects ling and emergency flood threat and provid	e
 Increase acreage of publicly protected or risk areas that is reused for a beneficial publicly increase outreach and education activities municipal floodplain managers, hosted be available on the website Increase the use reverse 911, TV, radio, subiliboards to communicate flood warning sholter locations. 	ublic use es, specifically target y Region 15 RFPG ar ocial media, and	ing 🗆	Increase the can be utilize Increase the the # of them (CFM) with t Increase part encouraging	amount of ed for futur proficiency n that are c ne Texas Fl cicipation in Region 15	publicly owned e regional storn of floodplain rertified as Certi oodplain Mana the Communifloodplain man	I land in the region that mwater infrastructure managers by increasing fied Floodplain Manage gement Association ty Rating System by agement programs to	ers
shelter locations Reduce the # of structures that have bee flooding events through property buyout RFPG Recommended		d	and FMPs; in	corporate	noncompliance	o implement future FME e penalties; and who nditions floodplain	.5





Flood Mitigation Project

Floodway Pump Stations (Main)

Fact Sheet

FMP Description

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

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

FMP ID: 153000052

Project Area

City/ Cities

County/ Counties Cameron

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Project Costs

Total Cost: \$2,360,700.00 Cameron County Drainage District No. 6 Study Sponsor: 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** Cameron County Drainage District No. 6 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





Have the flood risk and flood reduction impacts been evaluated?

Hav	ve 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 ✓
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 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	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	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
П	Reduce the # of structures that have been subject to repeated	and FMPs: incorporate noncompliance penalties: and who

RFPG Recommended

flooding events through property buyouts

Yes ✓ No

regulate development in the future conditions floodplain





Flood Mitigation Project

Floodway Pump Stations (Thompson)

Fact Sheet

FMP Description

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

	400	_
Drc	NACT	Type
FIL	ハヒしし	100C

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

FMP ID: 153000053

Project Area

City/ Cities

County/ Counties Cameron

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

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: \$2,360,700.00 Cameron County Drainage District No. 6 Study Sponsor: 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** Cameron County Drainage District No. 6 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





Have the flood risk and flood reduction impacts been evaluated?

Hav	ve 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	I permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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 applications or as part of a floodplain management program	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





Floodway Pump Stations (Parker)

FMP Description

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

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

FMP ID: 153000054

Project Area

City/ Cities

County/ Counties Cameron

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Project Costs

Total Cost: \$2,360,700.00 Cameron County Drainage District No. 6 Study Sponsor: 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** Cameron County Drainage District No. 6 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





Have the flood risk and flood reduction impacts been evaluated?

Hav	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 ✓
Has	all the ROW been acquired?	Yes □ No □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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	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 municipal floodplain managers, hosted by Region 15 RFPG and available on the website	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase 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□





Floodway Pump Stations (Adams Gardens)

FMP ID: 153000055

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Yes ✓ No □

No □

Miles inundated?

Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$2,360,700.00 Cameron County Drainage District No. 6 Study Sponsor: 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** Cameron County Drainage District No. 6 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





Have the flood risk and flood reduction impacts been evaluated?

Hav	ve 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	I permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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 applications or as part of a floodplain management program	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





CCDD6 Project 8

FMP ID: 153000056

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This proposed project will involve creating a new proposed ditch approximately 1,800 feet long within the AN-47 Drain Basin.

Project Type

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

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080600

Study Area (sq. mi.) 0.1 sq mi

Emergency Need

Yes □ No ✓

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding: 2-year storm

Population at Risk ~ 6940 people # of structures inundated 462

Roadways flooded Yes □ No ✓ Miles inundated?

Critical Facilities Impacted Yes □ No ✓ Agricultural Land impacted Yes □ No ✓ Notes:

Project Costs

Total Cost: \$1,448,260 Study Sponsor: Cameron County Drainage District 6 These are one-time costs for program development, education campaign, and non-Non-reoccurring Non-capital Cost (include in Total above): engineering study costs. Estimated year to start: 2026 Entity with Oversight Cameron County Drainage District 6 Time to complete? Included in a Hazard Mitigation Yes □ No ✓ 5 years 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, 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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	





CCDD6 Project 9

FMP ID: 153000057

FMP Description

This proposed project will involve constructing a new ditch and several drainage structures that will connect a combination of existing ditches, some of which drain to Tio Cano Lake and redirect them to outfall to Parker Drain.

Project Type

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

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080600

Study Area (sq. mi.) 0.1 sq mi

Emergency Need

Yes □ No ✓

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency of flooding: 10-year storm Population at Risk ~ 6940 people # of structures inundated 462 Roadways flooded Miles inundated? Yes□ No ✓ Critical Facilities Impacted Yes □ No ✓ Agricultural Land impacted Yes □ No 🗸 Notes:

Project Costs

\$1,172,960 **Total Cost:** Cameron County Drainage District 6 Study Sponsor: 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: 2026 **Entity with Oversight** Cameron County Drainage District 6 Time to complete? Included in a Hazard Mitigation 5 years Yes □ No ✓ Action Plan or other plan? Yes □ No ✓ Funding Dedicated? (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 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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 Manager (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	 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
DEDC December de d	

RFPG Recommended





CCDD6 Project 10

FMP ID: 153000058

FMP Description

This proposed project will involve constructing a new ditch and several drainage structures that will connect a combination of existing ditches, some of which drain to Tio Cano Lake and redirect them to outfall to Parker Drain.

Project Type

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

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080600

Study Area (sq. mi.) 0.1 sq mi

Emergency Need

Yes □ No ✓

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency of flooding: 2-year storm Population at Risk ~ 6940 people # of structures inundated 462 Roadways flooded Miles inundated? Yes□ No ✓ Critical Facilities Impacted Yes □ No ✓ Agricultural Land impacted Yes □ No 🗸 Notes:

Project Costs

Total Cost: \$1,240,405 Cameron County Drainage District 6 Study Sponsor: 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: 2026 **Entity with Oversight** Cameron County Drainage District 6 Time to complete? Included in a Hazard Mitigation 5 years 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?

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 	 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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 Manager (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	 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
DEDC December de d	

RFPG Recommended





CCDD6 Project 11

FMP ID: 153000059

F	M	Р	\Box	escri	nt	ion

This proposed project will involve widening approximately 34,000 feet of the existing Parker Drain, which at its current configuration is inadequate to convey the larger storm events that have plagued the region.

Project Type

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

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080600

Study Area (sq. mi.) 0.06 sq mi

Emergency Need

Yes □ No ✓

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency of flooding: 2-year storm Population at Risk ~ 6940 people # of structures inundated 462 Roadways flooded Miles inundated? Yes□ No ✓ Critical Facilities Impacted Yes □ No ✓ Agricultural Land impacted Yes □ No 🗸 Notes:

Project Costs

Total Cost: \$9,462,892 Cameron County Drainage District 6 Study Sponsor: 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: 2026 **Entity with Oversight** Cameron County Drainage District 6 Time to complete? Included in a Hazard Mitigation 5 years 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?

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	 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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
DEDC Decommended	

RFPG Recommended





CCDD6 Project 12

FMP ID: 153000060

FMP Description

This proposed project will involve widening approximately 16,450 feet of the existing Main Drain, which at its current configuration is inadequate to convey the larger storm events that have plagued the region.

Project Type

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

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080600

Study Area (sq. mi.) 0.03 sq mi

Emergency Need

Yes □ No ✓

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency of flooding: 2-year storm Population at Risk ~ 6940 people # of structures inundated 462 Roadways flooded Miles inundated? Yes□ No ✓ Critical Facilities Impacted Yes □ No ✓ Agricultural Land impacted Yes □ No 🗸 Notes:

Project Costs

Total Cost: \$4,355,820 Cameron County Drainage District 6 Study Sponsor: 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: 2026 **Entity with Oversight** Cameron County Drainage District 6 Time to complete? Included in a Hazard Mitigation 5 years 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?

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	 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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	 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
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
DEDC December de d	

RFPG Recommended





CCDD6 Project 13

FMP ID: 153000061

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This proposed project will help establish a Regional Detention Facility (RDF) at the outfall of the Main Drain.

Project Type

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

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110208

HUC 12 **121102080600**

Study Area (sq. mi.) 0.2 sq mi

Emergency Need

Yes □ No ✓

Known Flood Risk

History of Flooding? Frequency of flooding: Yes ✓ No 🗆 2-year storm Population at Risk ~ 6940 people # of structures inundated Roadways flooded No ✓ Miles inundated? Yes□ Agricultural Land impacted Critical Facilities Impacted Yes □ No ✓ Yes □ No 🗸 Notes:

Project Costs

Total Cost: \$7,125,950 Study Sponsor: Cameron County Drainage District 6 These are one-time costs for program development, education campaign, and non-Non-reoccurring Non-capital Cost (include in Total above): engineering study costs. Estimated year to start: 2026 Entity with Oversight Cameron County Drainage District 6 Time to complete? Included in a Hazard Mitigation Yes □ No ✓ 5 years 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, 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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	





Downtown Pharr Alternative

FMP ID: 153000062

FMP Description

The proposed improvements include channel widening, benching, clearing, longitudinal grading and will require limited grading outside of the existing R.O.W.

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	iect ⁻

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities Pharr

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Yes ✓ No □

No □

Miles inundated?

Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$22,210,000.00 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: **Entity with Oversight** City of Pharr Time to complete? 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	e 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 ✓
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 □
Will	permits or interlocal agreements be needed for this project?		Yes □ No □
Rela	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
	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 applications or as part of a floodplain management program		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





FMP ID: 153000063

Northeast Pharr Mitigation Project

FMP Description

Funding Dedicated?

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

Project Type					
✓ Structural Project (r	flow structu	etention, levees, cha ures, reservoirs, stor			l Projects (Property easement acquisitions, structures, flood-proofing, early warn systems)
☐ Nature Based (Structural) Projects (wetlands, bioswales, restorations, etc.)			ales, river	✓ Infrastructure	е
Project Area					
City/ Cities	Pharr				
County/ Counties	Hidalgo				
HUC 8	12110207,				
	12110258				
HUC 12	121102080	100,			
	121102080	300,			
	130900020	311			
Study Area (sq. mi.)	N/A				
Emergency Need Yes ✓ No □					
Known Flood Risk	<				
History of Flooding? Population at Risk		Yes ✓ No 🗆		equency of flooding: tructures inundated	
Roadways flooded Critical Facilities Im Notes:	pacted	Yes ✓ No □ Yes □ No □	Agricul	Miles inundated? tural Land impacted	Yes □ No □
Project Costs					
Total Cost: Non-reoccurring Non-capital Cost (include in Total above):		\$14,357,850	engineering study	costs.	development, education campaign, and non-
Estimated year to start: Time to complete?				ntity with Oversight a Hazard Mitigation	City of Pharr Yes ✓ No □

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	e 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 ✓
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 □
Will permits or interlocal agreements be needed for this project?		Yes □ No □
Rela	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
	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 applications or as part of a floodplain management program	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	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 available on the website	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	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
	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





West Main Drain III Extension BP 14

FMP ID: 153000064

FMP Description

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

Project Type

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

Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Notes:

Time to complete?

Total Cost: \$17,480,000 Hidalgo County Drainage District #1 Study Sponsor: Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Hidalgo County Drainage District #1 **Entity with Oversight**

Included in a Hazard Mitigation Yes ✓ No 🗆

Yes □ No □

Action Plan or other plan?

Page 1 of 2

Project Costs

Cost (include in Total above): Estimated year to start:





Funding Dedicated?	Yes □ No ✓ (Potential) So	ource of Funding	FIF, local
Have the flood risk ar	nd flood reduction impa	cts beer	n evaluated	?
Have the flood risk and flood re	duction impacts been evaluated?		Yes □ No ✓	
Does the project have any nega	tive 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 r	sk for the 100-Yr flood event?		Yes □ No □	Unknown ✓
Does the Project provide a Wat	er Supply Benefit?		Yes □ No ✓	
Has all the ROW been acquired	?		Yes □ No □	
Will permits or interlocal agree	ments be needed for this project?		Yes □ No □	
Related Goals				
✓ Increase community access routes, during and after a	s routes to critical facilities, evacuat	ion 🗆	Increase the # o	f entities that adopt higher than NFIP-minimum
· · · · · · · · · · · · · · · · · · ·	structed vulnerable critical facilities			aintain an operational stormwater asset Ian
	ities participating in the National Flo	ood 🗆	Increase the # c	of flood gauges (rainfall/stream) in the region
☐ Decrease the average age used to define SFHAs	of FEMA Flood Insurance Rate Maps	S 🗆	Increase the # o	f entities that have multi-year drainage CIP list
_	vailable flood hazard data by comple nstruction projects to address floodin	-	Service and USC	of entities that integrate National Weather GS Texas Water Science Center (TXWSC) flood information into their local capabilities to rnings
· · · · · · · · · · · · · · · · · · ·	ne regional flood planning process		Increase use of	nature-based flood risk reduction projects
_	that could be used for water reuse a floodplain management program		response progra	nally coordinated warning and emergency am that can detect the flood threat and provide of impending flood danger
Increase acreage of public risk areas that is reused for	ly protected open space in critical flor or a beneficial public use	ood 🗆	Increase the am	nount of publicly owned land in the region that for future regional stormwater infrastructure
	ucation activities, specifically targeting agers, hosted by Region 15 RFPG and	-	the # of them th	oficiency of floodplain managers by increasing nat are certified as Certified Floodplain Managers Texas Floodplain Management Association
☐ Increase the use reverse 9	11, TV, radio, social media, and eflood warnings, evacuation routes,	□ and	Increase partici encouraging Re	pation in the Community Rating System by gion 15 floodplain management programs to dicated drainage fees to implement future FMEs
	s that have been subject to repeated roperty buyouts	I	and FMPs; inco	rporate noncompliance penalties; and who pment in the future conditions floodplain
RFPG Recommended				
Yes ✓ No 🗆				





Mission Inlet BP 13

FMP ID: 153000065

FMP Description

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

Project Type

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

Project Area

City/ Cities Mission

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk #of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

\$7,480,000

Notes:

Project Costs

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

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Yes □ No □

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Yes \checkmark No \square

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





Funding Dedicated? Yes ☐ No V	(Potential) Source of Funding FIF, local
Have the flood risk and flood reduction in	mpacts been evaluated?
Have the flood risk and flood reduction impacts been evaluate	d? Yes □ No ✓
Does the project have any negative effects, per TWDB guidelin	nes? 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 proje	ct? Yes 🗆 No 🗆
Related Goals	
✓ Increase community access routes to critical facilities, exroutes, during and after a flooding event	vacuation Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical fact within the existing and future 100-YR floodplain	
☐ Increase the # of communities participating in the Natio Insurance Program	The state of the s
 Decrease the average age of FEMA Flood Insurance Rate used to define SFHAs 	Maps
☐ Increase the coverage of available flood hazard data by c studies with identified construction projects to address hazards	
$\hfill \square$ Increase participation in the regional flood planning products	cess Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water is applications or as part of a floodplain management prog 	, , , , , , , , , , , , , , , , , , , ,
☐ Increase acreage of publicly protected open space in crit risk areas that is reused for a beneficial public use	
 Increase outreach and education activities, specifically to municipal floodplain managers, hosted by Region 15 RFF 	argeting Increase the proficiency of floodplain managers by increasing PG and the # of them that are certified as Certified Floodplain Managers
 available on the website Increase the use reverse 911, TV, radio, social media, an billboards to communicate flood warnings, evacuation roshelter locations 	
☐ Reduce the # of structures that have been subject to rep flooding events through property buyouts	,
RFPG Recommended	
Yes ✓No □	





Mission-McAllen Drain BP 12

FMP ID: 153000066

FMP Description

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

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

Project Area

City/ Cities Mission, McAllen

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Time to complete?

Total Cost: \$21,110,000 Study Sponsor: Hidalgo County Drainage District #1

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 Hidalgo County Drainage District #1

Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?





Funding Dedicated? Yes ☐ No V	(Potential) Source of Funding FIF, local
Have the flood risk and flood reduction in	mpacts been evaluated?
Have the flood risk and flood reduction impacts been evaluate	d? Yes □ No ✓
Does the project have any negative effects, per TWDB guidelin	nes? 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 proje	ct? Yes 🗆 No 🗆
Related Goals	
✓ Increase community access routes to critical facilities, exroutes, during and after a flooding event	vacuation Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical fact within the existing and future 100-YR floodplain	
☐ Increase the # of communities participating in the Natio Insurance Program	The state of the s
 Decrease the average age of FEMA Flood Insurance Rate used to define SFHAs 	Maps
☐ Increase the coverage of available flood hazard data by c studies with identified construction projects to address hazards	
$\hfill \square$ Increase participation in the regional flood planning products	cess Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water is applications or as part of a floodplain management prog 	, , , , , , , , , , , , , , , , , , , ,
☐ Increase acreage of publicly protected open space in crit risk areas that is reused for a beneficial public use	
 Increase outreach and education activities, specifically to municipal floodplain managers, hosted by Region 15 RFF 	argeting Increase the proficiency of floodplain managers by increasing PG and the # of them that are certified as Certified Floodplain Managers
 available on the website Increase the use reverse 911, TV, radio, social media, an billboards to communicate flood warnings, evacuation roshelter locations 	
☐ Reduce the # of structures that have been subject to rep flooding events through property buyouts	,
RFPG Recommended	
Yes ✓No □	





Palmview Lateral BP 7

FMP ID: 153000067

FMP Description

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

Project Type

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

Project Area

City/ Cities **Palmview** County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ 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?

\$5,460,000 Hidalgo County Drainage District #1 Study Sponsor:

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

Yes □ No □

Hidalgo County Drainage District #1 **Entity with Oversight** Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?





Funding Dedicated? Yes	」No ✓ (Pote	tential) Source of Funding FIF, local	
Have the flood risk and flood re	duction impacts	s 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 grea	ter than 1?	Yes □ No □ Unknown ✓	
Does the project reduce flood risk for the 100-Y	r flood event?	Yes □ No □ Unknown ✓	
Does the Project provide a Water Supply Benefi	it?	Yes □ No ✓	
Has all the ROW been acquired?		Yes □ No □	
Will permits or interlocal agreements be neede	d for this project?	Yes □ No □	
Related Goals			
✓ Increase community access routes to criti- routes, during and after a flooding event	cal facilities, evacuation	Increase the # of entities that adopt higher than NFIP-minimum standards	m
Reduce the # of newly constructed vulner within the existing and future 100-YR floo		 Develop and maintain an operational stormwater asset management plan 	
☐ Increase the # of communities participating Insurance Program	•	• ,	
 Decrease the average age of FEMA Flood used to define SFHAs 	Insurance Rate Maps	☐ Increase the # of entities that have multi-year drainage CIP list	t
Increase the coverage of available flood has studies with identified construction project 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	
$\ \square$ Increase participation in the regional floor		☐ Increase use of nature-based flood risk reduction projects	
 Provide regional detention that could be u applications or as part of a floodplain mar 		 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provice timely warning of impending flood danger 	de
☐ Increase acreage of publicly protected operisk areas that is reused for a beneficial pu			t
Increase outreach and education activities municipal floodplain managers, hosted by available on the website	s, specifically targeting	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Manage (CFM) with the Texas Floodplain Management Association 	
☐ Increase the use reverse 911, TV, radio, so billboards to communicate flood warnings shelter locations		☐ Increase participation in the Community Rating System by	lEs
 Reduce the # of structures that have beer flooding events through property buyouts 	•	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain	
RFPG Recommended			
Yes ✓ No □			





2023 Bond Project 4 - North Main Drain III & I FMP ID: 153000068

FM	ΙP	Descr	ipt	ior
			•	

For Bond Project 4, North Main Drain III and I, approximately 9 miles of channel improvements are implemented including widening the North Main Drain within the existing right of way, from Monte Cristo Road to J-09 Drain.

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- ✓ 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 12110208

HUC 12

Study Area (sq. mi.) 7.92 sq mi

Emergency Need

Yes □ No ✓

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding: 10-year storm

Population at Risk ~ 2856 people # of structures inundated 952

Roadways flooded Yes□ No ✓ Miles inundated?

Critical Facilities Impacted Yes □ No ✓ Agricultural Land impacted Yes □ No ✓

Notes:

Project Costs

Total Cost: \$14,955,300 Study Sponsor: Hidalgo County Drainage District 1 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: 2026 Entity with Oversight Hidalgo County Drainage District 1 Time to complete? 5 years 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?

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 	 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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 🗆





FMP ID: 153000069

Alt MilitaryHighway

FMP Description

Alt_MilitaryHighway

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U	ro	IDCT	IVINC
г	ΙU	ect ⁻	IVNC

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

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Time to complete?

Total Cost: \$5,096,223 Study Sponsor: McAllen

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

Included in a Hazard Mitigation

Estimated year to start: **Entity with Oversight** McAllen

Action Plan or other plan?

Yes 🗆 No 🗆

Yes ✓ No 🗆





Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding FIF, local
Have the flood risk and flo	od reduction impa	pacts been evaluated?
Have the flood risk and flood reduction	impacts been evaluated?	Yes □ No ✓
Does the project have any negative effe	ects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ra	tio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for th	ne 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Suppl	y Benefit?	Yes □ No ✓
Has all the ROW been acquired?		Yes □ No □
Will permits or interlocal agreements be	e needed for this project?	Yes □ No □
Related Goals		
✓ Increase community access router routes, during and after a flooding		lation Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed within the existing and future 100	d vulnerable critical facilitie	
☐ Increase the # of communities par Insurance Program	rticipating in the National Fl	Flood Increase the # of flood gauges (rainfall/stream) in the region
☐ Decrease the average age of FEMA used to define SFHAs	A Flood Insurance Rate Map	aps
 Increase the coverage of available studies with identified construction hazards 		
☐ Increase participation in the regio		Increase use of nature-based flood risk reduction projects
 Provide regional detention that co applications or as part of a floodp 		
☐ Increase acreage of publicly prote risk areas that is reused for a bene	·	
 Increase outreach and education a municipal floodplain managers, he available on the website 	, , , ,	eting Increase the proficiency of floodplain managers by increasing
☐ Increase the use reverse 911, TV, billboards to communicate flood v shelter locations		☐ Increase participation in the Community Rating System by
Reduce the # of structures that ha flooding events through property	· ·	
RFPG Recommended		
Yes ✓No □		





Alamo Expressway Drain Phase 2 BP 21

FMP ID: 153000070

FMP Description

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

Project Type

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

Project Area

City/ Cities Alamo

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ 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

Estimated year to start:

Time to complete?

Total Cost: \$1,282,997 Non-reoccurring Non-capital Cost (include in Total above):

Τŀ

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Yes \checkmark No \square

Yes □ No □

Action Plan or other plan?

Page 1 of 2





Funding Dedicated? Yes \(\text{No } \neq \)	(Potential) Source of Funding FIF, local
Have the flood risk and flood reduction in	npacts been evaluated?
Have the flood risk and flood reduction impacts been evaluated	ł? Yes □ No ✓
Does the project have any negative effects, per TWDB guideline	es? 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 projec	t? Yes 🗆 No 🗆
Related Goals	
✓ Increase community access routes to critical facilities, eva- routes, during and after a flooding event	acuation Increase the # of entities that adopt higher than NFIP-minimum standards
 Reduce the # of newly constructed vulnerable critical faci within the existing and future 100-YR floodplain 	
☐ Increase the # of communities participating in the Nation Insurance Program	· · · · · · · · · · · · · · · · · · ·
☐ Decrease the average age of FEMA Flood Insurance Rate used to define SFHAs	Maps Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by co studies with identified construction projects to address fl hazards 	
$\hfill \square$ Increase participation in the regional flood planning process.	ess Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water re applications or as part of a floodplain management progr 	, , , , , , , , , , , , , , , , , , , ,
☐ Increase acreage of publicly protected open space in critic risk areas that is reused for a beneficial public use	
☐ Increase outreach and education activities, specifically tamunicipal floodplain managers, hosted by Region 15 RFPG	rgeting Increase the proficiency of floodplain managers by increasing G 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 billboards to communicate flood warnings, evacuation roushelter locations 	ites, and encouraging Region 15 floodplain management programs to
Reduce the # of structures that have been subject to reperflooding 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
RFPG Recommended	
Yes ✓No □	





Alternate Rado Drain BP 11

FMP ID: 153000071

FMP Description

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

Project Type

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

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk #of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Time to complete?

Total Cost: \$4,747,963 Study Sponsor: Hidalgo County Drainage District #1

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 Hidalgo County Drainage District #1

Included in a Hazard Mitigation Yes ✓ No □

Yes □ No □

Action Plan or other plan?





Funding Dedicated? Yes 🗆 N	No 🗸 (Potential) S	ource of Funding FIF, local
Have the flood risk and flood redu	action impacts bee	n evaluated?
Have the flood risk and flood reduction impacts bee	en evaluated?	Yes □ No ✓
Does the project have any negative effects, per TW	/DB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater t	than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flo	ood 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 fo	or this project?	Yes □ No □
Related Goals		
✓ Increase community access routes to critical froutes, during and after a flooding event	facilities, evacuation \Box	Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable within the existing and future 100-YR floodpla		Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insured to define SFHAs 	urance Rate Maps	Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazar studies with identified construction projects t 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 pla		Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used applications or as part of a floodplain manage 		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 s risk areas that is reused for a beneficial public	•	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, sp municipal floodplain managers, hosted by Reg 	pecifically targeting	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 billboards to communicate flood warnings, ev 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
Reduce the # of structures that have been sul flooding events through property buyouts	bject to repeated	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended		
Yes ✓ No 🗆		





FMP ID: 153000072

North McAllen Detention Pond

FMP Description

The project proposes 2 detention ponds as well as extending an existing ditch further upstream to connect the two ponds. The main goal of these drainage improvements is to provide relief and remove agricultural land from the 100-year floodplain.

Project Type

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

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$52,567,980 Study Sponsor: City of McAllen Non-reoccurring Non-capital These are one-time costs for program development, educ

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 McAllen

Time to complete? Included in a Hazard Mitigation A c t ion Plan or other plan?

Yes ✓ No□

P a g e 1 o f





Yes □ No □ Unknown ✓ Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No ✓
Yes □ No □
Yes □ No □
☐ Increase the # of entities that adopt higher than NFIP-minimum
standards Develop and maintain an operational stormwater asset management plan
☐ Increase the # of flood gauges (rainfall/stream) in the region
☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase use of nature-based flood risk reduction projects
 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
(CFM) with the Texas Floodplain Management Association ☐ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FMP ID: 153000073

Drain J01

FMP Description

The Drain J01 FMP aims to replace the present 24 in RCP with 48 in RCP to divert. The 36 in RCP will be removed/plugged

Project Type

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

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$603,663.00 Study Sponsor: Hidalgo County Drainage District No. 1

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 Hidalgo County Drainage District No. 1

Estimated year to start: Entity with Oversight Hidalgo County
Time to complete? Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding FIF, local





Have the flood risk and flood reduction impacts been evaluated?

Hav	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 ✓
Has	all the ROW been acquired?	Yes □ No □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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	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 municipal floodplain managers, hosted by Region 15 RFPG and available on the website	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and	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

RFPG Recommended

Yes ✓ No 🗆





FMP ID: 153000074

Study Sponsor: City of Alton

Entity with Oversight

Included in a Hazard Mitigation

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

City of Alton

Yes ✓ No 🗆

Alton MDP - North Stewart Boulevard Alternative 1

FMP Description

Project Costs
Total Cost:

Non-reoccurring Non-capital

Cost (include in Total above):

Estimated year to start:

Time to complete?

Alternative 1 is designed to remove structures from the 10-year floodplain and more frequent storms. This alternative consists of the construction of 6,600 LF of a single 8' X 4' reinforced concrete box sloped at 0.02% from the Val Verde Acres Subdiv

Proj	ect Type					
✓	•	flow structures, reser	evees, channelization, voirs, storm drainage			Projects (Property easement acquisitions, cructures, flood-proofing, early warn systems)
	Nature Based (Struct restorations, etc.)	tural) Projects (wetlar	nds, bioswales, river	✓	Infrastructure	
Proj	ect Area					
	City/ Cities	Alton				
	County/ Counties	Hidalgo				
	HUC 8	12110207,				
		12110258				
	HUC 12	121102080100,				
		121102080300,				
		130900020311				
S	tudy Area (sq. mi.)	N/A				
	ergency Need ✓ No □					
Histo Popu	wn Flood Risk ory of Flooding? ulation at Risk dways flooded Critical Facilities Impes:	Yes ✓ Yes ✓	No 🗆	# of structur	ey of flooding: es inundated es inundated? and impacted	Yes □ No □

engineering study costs.

\$23,275,000





Flood Mitigation Project Fact Sheet





FMP ID: 153000075

Olmito Townsite Flood Mitigation Project

FMP Description

Funding Dedicated?

Install storm sewer improvements across US77 to connect to outfall ditch to the east of the Olmito Townsite.

Project Type										
Structural Project (r low water crossing, improvements, etc.	flow structur					lo Structural levation of st				
☐ Nature Based (Structurestorations, etc.)	ctural) Project	s (wetlan	ds, bioswa	ales, river	√ Ir	nfrastructure				
Project Area										
City/ Cities										
County/ Counties	Cameron									
HUC 8	12110207,									
	12110258									
HUC 12	1211020801	00,								
	1211020803	00,								
	1309000203	11								
Study Area (sq. mi.)	N/A									
Emergency Need Yes ✓ No □										
Known Flood Risk	<									
History of Flooding? Population at Risk		Yes ✓	No □			of flooding:				
Roadways flooded		Yes ✓	No □	# 01 31		inundated?				
Critical Facilities Im Notes:	pacted	Yes 🗆	No □	Agricul	tural Lan	d impacted	Yes 🗆	No □		
Project Costs										
Total Cost: Non-reoccurring Non-cap Cost (include in Total above		\$4,	710,994	These are one-time engineering study	e costs fo	dy Sponsor: or program de		n County nt, educatio	on campaign	, and non-
Estimated year to start:				Er	ntity with	Oversight		n County		
Time to complete?				Included in Action		Mitigation ther plan?	Yes ✓	NO □		

(Potential) Source of Funding

FIF, local

Yes □ No ✓





Have the flood risk and flood reduction impacts been evaluated?

Hav	e 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 □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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 applications or as part of a floodplain management program	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	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 available on the website	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	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
	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

Yes ✓ No 🗆





FMP ID: 153000076

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

FMP Description

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

,	, , , , , , , , , , , , , , , , , , , ,
✓	Structural Project (retention/ detention, levees, channelization, dams,
	low water crossing, flow structures, reservoirs, storm drainage
	improvements, etc.)

Nature Based (Structural) Projects (wetlands, bioswales, river

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

Project Area

restorations, etc.)

Project Type

City/ Cities Los Fresnos
County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$3,418,230 Study Sponsor: City of Los Fresnos

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 Los Fresnos Time to complete? Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet





FMP ID: 153000077

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

FMP Description

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

Pro	lect	Type
/		

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

Project Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$27,101,370 Study Sponsor: City of Brownsville

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 Brownsville
Time to complete? Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet





FMP ID: 153000078

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

FMP Description

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

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

Project Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$7,488,090 Study Sponsor: City of Brownsville

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 Brownsville
Time to complete? Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet





FMP ID: 153000079

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

FMP Description

\checkmark	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

Project Type

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

.

HUC 12 **121102080100**, **121102080300**,

12110258

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: \$27,553,770 Study Sponsor: City of Brownsville

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 Brownsville Time to complete? Entity with Oversight City of Brownsville Yes ✓ No □



Yes ✓ No□



Flood Mitigation Project Fact Sheet





FMP ID: 153000080

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

FMP Description

Critical Facilities Impacted

Notes:

Project Costs
Total Cost:

Non-reoccurring Non-capital

Cost (include in Total above):

Estimated year to start:

Time to complete?

Yes □ No □

\$78,811,560

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

Project Ty	/pe				
low wat			vees, channelization, ovoirs, storm drainage	dams, 🗆	No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
	Based (Struct ions, etc.)	ural) Projects (wetlan	ds, bioswales, river	✓	Infrastructure
Project Ar	·ea				
C	City/ Cities	Brownsville			
County/	Counties	Cameron			
	HUC 8	12110207,			
		12110258			
	HUC 12	121102080100,			
		121102080300,			
		130900020311			
Study Area	a (sq. mi.)	N/A			
Emergeno Yes ✓ No 🗆	•				
Known Flo	ood Risk				
History of Flo Population at	-	Yes ✓	No 🗆	•	cy of flooding: res inundated
Roadways flo	oded	Yes ✓	No □	Mile	es inundated?

engineering study costs.

Agricultural Land impacted Yes \square No \square

Study Sponsor:

Entity with Oversight

Included in a Hazard Mitigation

City of Brownsville

City of Brownsville

Yes ✓ No 🗆

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

Page 1 of 2





Flood Mitigation Project Fact Sheet





FMP ID: 153000081

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

FMP Description

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

Pro	ject 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
Pro	ject Area			
	City/ Cities	Brownsville		
	County/ Counties	Cameron		
	HUC 8	12110207,		
		12110258		
	HUC 12	121102080100,		
		121102080300,		
		130900020311		
	Study Area (sq. mi.)	N/A		
	ergency Need ✓ 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 \square No \square Notes:

Project Costs

Time to complete?

Total Cost: \$9,227,220 Study Sponsor: City of Brownsville 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 Brownsville

Included in a Hazard Mitigation

Yes ✓ No 🗆





Flood Mitigation Project Fact Sheet





FMP ID: 153000082

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

FMP Description

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

Pro	lect	Ivpe
_	•	7.1

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

Project Area

City/ Cities **Brownsville**

County/ Counties Cameron

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

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

Notes:

Project Costs

Time to complete?

Total Cost: \$807,360 Study Sponsor: City of Brownsville

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 Brownsville Included in a Hazard Mitigation Yes ✓ No 🗆





Flood Mitigation Project Fact Sheet





FMP ID: 153000083

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

FMP Description

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

Pr	oje	ct	Гу	pe
----	-----	----	----	----

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

Project Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$205,578,400 Study Sponsor: City of Brownsville
Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

Cost (include in Total above): Estimated year to start:

Time to complete?

engineering study costs.

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





Flood Mitigation Project Fact Sheet





FMP ID: 153000084

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

FMP Description

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

Pro	ject Type			
✓				No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
	Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)			Infrastructure
Pro	ject Area			
	City/ Cities	Los Fresnos		
	County/ Counties	Cameron		
	HUC 8	12110207,		
		12110258		
	HUC 12	121102080100,		
		121102080300,		
		130900020311		
	Study Area (sq. mi.)	N/A		
	ergency Need ✓ 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

Time to complete?

Total Cost: \$30,206,400 Study Sponsor: City of Los Fresnos

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 Los Fresnos

Included in a Hazard Mitigation

Yes ✓ No 🗆





Flood Mitigation Project Fact Sheet





FMP ID: 153000085

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

FMP Description

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

^o ro	ject Type			
✓				No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
	Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)			Infrastructure
Pro	ject Area			
	City/ Cities	Los Fresnos		
	County/ Counties	Cameron		
	HUC 8	12110207,		
		12110258		
	HUC 12	121102080100,		
		121102080300,		
		130900020311		
:	Study Area (sq. mi.)	N/A		
	ergency Need ✓ No□			

Known Flood Risk

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

Notes:

Project Costs

Time to complete?

Total Cost: \$43,382,552 Study Sponsor: City of Los Fresnos 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 Los Fresnos

Included in a Hazard Mitigation Yes ✓ No 🗆



Yes ✓ No 🗆



Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding 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 standards 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 flood gauges (rainfall/stream) in the region Increase the # of communities participating in the National Flood 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 (CFM) with the Texas Floodplain Management Association available on the website Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to billboards to communicate flood warnings, evacuation routes, and 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





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

FMP ID: 153000086

FMP Description

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

Project Type

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

Project Area

City/ Cities **Brownsville** County/ Counties Cameron HUC8 12110207, 12110258 HUC 12 121102080100, 121102080300, 130900020311

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: \$56,748,360 Study Sponsor: City of Brownsville 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 Brownsville





Action Plan or other plan? (Potential) Source of Funding	Time to complete?	Ir		lazard Mitigatio		Yes ✓	No □			
Does the project have any negative effects, per TWDB guidelines? Does the project have a Benefit Cost Ratio greater than 1? Does the project reduce flood risk for the 100-Yr flood event? Does the Project provide a Water Supply Benefit? Has all the ROW been acquired? Will permits or interlocal agreements be needed for this project? Yes □ No □ Unknown ✓ Yes □ No □ The Note Intermited Secure	Funding Dedicated? Yes \square	No ✓				FIF, loca	nl			
Does the project have any negative effects, per TWDB guidelines? Does the project have a Benefit Cost Ratio greater than 1? Does the project reduce flood risk for the 100-Yr flood event? Does the Project provide a Water Supply Benefit? Has all the ROW been acquired? Will permits or interlocal agreements be needed for this project? 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 land facilities within the existing and future 100-YR floodplain management program land for a beneficial public use land risk areas that is reused for a beneficial public use provide regional detention that could be used for water reuse applications or as part of a floodplain management program lancrease careage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use lancrease the user acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use lancrease the user acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use land shelter locations Increase the user reverse 911, TV, radio, social media, and billiboards to communicate flood warnings, evacuation routes, and shelter locations REPG Recommended		•	icts been							
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flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended	☐ Increase the use reverse 911, TV, radio, soc billboards to communicate flood warnings, e shelter locations	evacuation routes,	, and	Increase part encouraging incorporate of	ticipat Regio dedica	ion in t n 15 flo ited dra	he Comm odplain r iinage fee	unity Ratir nanageme es to imple	ng System b nt programs ment future	y s to e FMEs
	flooding events through property buyouts	ubject to repeate	u							





Port Isabel to Brownsville FIF - Project 1B North FMP ID: 153000087 Main Drain and Four Corners

FMP Description

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

	ect		

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

Project Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$53,937,392 Study Sponsor: City of Brownsville

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 Brownsville





Time to comp	olete?			Hazard Mitigation lan or other plan?	Yes ✓ No 🗆
Funding Dedi	cated?	Yes □ No ✓		Source of Funding	FIF, local
	flood risk and floo		•	n evaluated ?	
Have the floo	od risk and flood reduction i	mpacts been evaluated	d?	Yes □ No ✓	
Does the pro	ject have any negative effe	cts, per TWDB guidelin	es?	Yes □ No □	Unknown ✓
Does the pro	ject have a Benefit Cost Rat	io greater than 1?		Yes □ No □	Unknown ✓
Does the pro	ject reduce flood risk for th	e 100-Yr flood event?		Yes □ No □	Unknown ✓
Does the Pro	ject provide a Water Supply	Benefit?		Yes □ No ✓	
Has all the RO	OW been acquired?			Yes □ No □	
Will permits	or interlocal agreements be	needed for this projec	ct?	Yes □ No □	
Related G	ioals				
	e community access routes during and after a flooding		acuation \square	Increase the # of standards	f entities that adopt higher than NFIP-minimum
□ Reduce	the # of newly constructed	l vulnerable critical fac	ilities		intain an operational stormwater asset
	he existing and future 100- e the # of communities par		nal Flood 🗆	management plant increase the # of	an f flood gauges (rainfall/stream) in the region
Insuran	ce Program				
	se the average age of FEMA define SFHAs	Flood Insurance Rate	Maps \square	Increase the # of	fentities that have multi-year drainage CIP list
	e the coverage of available with identified construction			Service and USG	f entities that integrate National Weather S Texas Water Science Center (TXWSC) flood information into their local capabilities to mings
	e participation in the region			Increase use of r	nature-based flood risk reduction projects
	regional detention that coutions or as part of a floodpl			response progra	nally coordinated warning and emergency m that can detect the flood threat and provide of impending flood danger
	e acreage of publicly proted as that is reused for a bene		ical flood 🗆	Increase the am	ount of publicly owned land in the region that or future regional stormwater infrastructure
□ Increase	e outreach and education a oal floodplain managers, ho	ctivities, specifically ta		Increase the pro the # of them th	ficiency of floodplain managers by increasing at are certified as Certified Floodplain Managers
	e on the website e the use reverse 911, TV, r	adio social media and	d 🗆		Texas Floodplain Management Association bation in the Community Rating System by
	ds to communicate flood w			encouraging Reg	gion 15 floodplain management programs to
□ Reduce	locations the # of structures that have g events through property b		eated	and FMPs; incor	icated drainage fees to implement future FMEs porate noncompliance penalties; and who oment in the future conditions floodplain
	ommended	Jayouts		regulate acvelop	sment in the rutare conditions noodplain
Yes ✓ No 🗆					





McAllen MDP - Study 1 Monte Cristo Hoen Rd Subdivision

FMP ID: 153000088

FMP Description

McAllen MDP - Study 1 Monte Cristo Hoen Rd Subdivision

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ν	ro	IACT	Type	۵

- 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)

Yes 🗆 No 🗆

FIF, local

Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

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

Notes:

Project Costs

Total Cost: \$22,594,720 Study Sponsor: City of McAllen

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 McAllen Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan? Funding Dedicated?

Yes □ No ✓ (Potential) Source of Funding





Have the flood risk and flood reduction impacts been evaluated?

Hav	e 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 □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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 applications or as part of a floodplain management program	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	and FMPs; incorporate noncompliance penalties; and who

RFPG Recommended

Yes ✓ No 🗆





FMP ID: 153000089

McAllen MDP - Study 3 SH107 East

FMP Description

McAllen MDP - Study 3 SH107 East

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- 1)	ro	ject ⁻	1 1 7	\sim
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	10		1 V I	\sim

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

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

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

Notes:

Project Costs

Total Cost: \$15,456,190 Study Sponsor: City of McAllen

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 McAllen Time to complete? Entity with Oversight City of McAllen Yes ✓ No □

Time to complete? Included in a Hazard Mitigation Yes ✓ 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	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 ✓
Has	all the ROW been acquired?	Yes □ No □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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	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 municipal floodplain managers, hosted by Region 15 RFPG and available on the website	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, 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 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 🗆





FMP ID: 153000090

McAllen MDP - Study 2 Shary Rd and 6MI Intersection

FMP Description

McAllen MDP - Study 2 Shary Rd and 6MI Intersection

Project Type

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

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Cost (include in Total above):

Estimated year to start:

Total Cost: \$9,474,980 Study Sponsor: City of McAllen Non-reoccurring Non-capital These are one-time costs for program development, educ

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

Yes □ No □

Entity with Oversight City of McAllen
Included in a Hazard Mitigation

Action Plan on other plan?

Action Plan on other plan?





Funding Dedicated?	Yes □ No ✓	(Potential) S	ource of Funding FIF, local
Have the flood risk and floo	od reduction im	pacts beei	n evaluated?
Have the flood risk and flood reduction i	mpacts been evaluated?	•	Yes □ No ✓
Does the project have any negative effect	cts, per TWDB guidelines	?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Rat	io greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for the	e 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 routes, during and after a flooding		cuation \square	Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed within the existing and future 100-	l vulnerable critical facili	ties 🗆	Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities part Insurance Program	·	l Flood 🗆	Increase the # of flood gauges (rainfall/stream) in the region
Decrease the average age of FEMA used to define SFHAs	Flood Insurance Rate N	1aps \square	Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available is studies with identified construction 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 region			Increase use of nature-based flood risk reduction projects
 Provide regional detention that cou applications or as part of a floodpla 			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 protective risk areas that is reused for a bene		al flood 🗆	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education a municipal floodplain managers, ho 	ctivities, specifically targ	, ,	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, r billboards to communicate flood w shelter locations		es, and	(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
☐ Reduce the # of structures that have flooding events through property by		ited	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes ✓No □			





FMP ID: 153000091

McAllen MDP - Study 4 Bentsen Rd

FMP Description

McAllen MDP - Study 4 Betnsen Rd

Project Type

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

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

> HUC8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

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 Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes 🗆 No 🗆

Notes:

Project Costs

Total Cost: \$2,896,781 Study Sponsor: City of McAllen 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: City of McAllen **Entity with Oversight** Time to complete? 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	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 ✓
Has	all the ROW been acquired?	Yes □ No □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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	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 municipal floodplain managers, hosted by Region 15 RFPG and available on the website	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, 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 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□





Risk Area 12 Fox Borough Drive

FMP ID: 153000092

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 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? 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: \$1,185,800 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): \$1,185,800 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 ✓ No □





							ract Silet
Fur	nding Dedicated? Yes	No ✓	Action P (Potential)			-	FIF, local
Ha	ve the flood risk and flood	d reduc	tion impa	act	s bee	n ev	aluated?
Hav	ve the flood risk and flood reduction imp	pacts been e	evaluated?		Yes 🗆	No ✓	
Do	es the project have any negative effects	, per TWDB	guidelines?		Yes 🗆	No \square	Unknown ✓
Do	es the project have a Benefit Cost Ratio	greater tha	n 1?		Yes 🗆	No 🗆	Unknown ✓
Do	es the project reduce flood risk for the 1	L00-Yr flood	event?		Yes □	No 🗆	Unknown ✓
Do	es the Project provide a Water Supply Bo	enefit?			Yes 🗆	No ✓	
Has	s all the ROW been acquired?				Yes □	No 🗆	
Wil	l permits or interlocal agreements be ne	eeded for th	is project?		Yes 🗆	No 🗆	
Rel	lated Goals						
✓	Increase community access routes to d	critical facili	ties,		Increase	the#	of entities that adopt higher than NFIP-
	evacuation routes, during and after a f				minimuı		
	Reduce the # of newly constructed vul facilities within the existing and future				Develop manage		aintain an operational stormwater asset Ian
	Increase the # of communities particip		•		_	-	of flood gauges (rainfall/stream) in the
	Decrease the average age of FEMA Flo Maps used to define SFHAs	ood Insurand	ce Rate		_	the # o	of entities that have multi-year drainage
	Increase the coverage of available floo completing studies with identified con address flooding hazards				Service a	and USO arning s	of entities that integrate National Weather GS Texas Water Science Center (TXWSC) system information into their local disseminate warnings
	Increase participation in the regional f	lood planni	ng process		-		nature-based flood risk reduction projects
	Provide regional detention that could reuse applications or as part of a flood program				respons	e progr	onally coordinated warning and emergency am that can detect the flood threat and warning of impending flood danger
	Increase acreage of publicly protected flood risk areas that is reused for a ber				Increase	the an	nount of publicly owned land in the region ized for future regional stormwater
	Increase outreach and education activ targeting municipal floodplain manage 15 RFPG and available on the website	-	-		Increase increasi Floodpla	the pr ng the # ain Mar	oficiency of floodplain managers by f of them that are certified as Certified nagers (CFM) with the Texas Floodplain association
	Increase the use reverse 911, TV, radio billboards to communicate flood warn routes, and shelter locations				encoura	ging Re	pation in the Community Rating System by egion 15 floodplain management programs dedicated drainage fees to implement
	Reduce the # of structures that have b	een subject	to		future F	MEs an	d FMPs; incorporate noncompliance

RFPG Recommended

repeated flooding events through property buyouts

Yes ✓ No 🗆

penalties; and who regulate development in the future

conditions floodplain





FMP ID: 153000093

Delta Storm_Edcouch Elsa Improvements

FMP Description

Funding Dedicated?

Channel widening and detention facilities in Edcouch and Elsa

Project Type ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage elevation of structures, flood-proofing, early warn systems) improvements, etc.) □ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.) Project Area City (Cities County/ Counties Hidalgo HUC 8 12110207, 121102080100, 121102080100, 121102080300, 130900020311 Study Area (sq. mi.) N/A Emergency Need Yes ✓ No □ Known Flood Risk History of Flooding? Yes ✓ No □ Frequency of flooding: # of structures flood-proofing, early warn systems) elevation of structures, flood-proofing, elevation of structures, flood-proofing, early warn systems) elevation of structures, flood-proofing, elev
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.) Project Area City/ Cities County/ Counties Hidalgo HUC 8 12110207, 12110258 HUC 12 121102080100, 121102080300, 130900020311 Study Area (sq. mi.) N/A Emergency Need Yes ✓ No □ Frequency of flooding: Population at Risk Frequency of flooding: Population at Risk Possible Structures (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems) Infrastructure Infrastructure Frequency of flooding: Population at Risk Frequency of flooding: # of structures inundated
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.) Project Area City/ Cities County/ Counties Hidalgo HUC 8 12110207, 12110258 HUC 12 121102080100, 121102080300, 130900020311 Study Area (sq. mi.) N/A Emergency Need Yes ✓ No □ Known Flood Risk History of Flooding? Yes ✓ No □ Frequency of flooding: Population at Risk # of structures inundated
low water crossing, flow structures, reservoirs, storm drainage improvements, etc.) Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.) Project Area City/ Cities County/ Counties Hidalgo HUC 8 12110207, 12110258 HUC 12 121102080100, 121102080300, 13090020311 Study Area (sq. mi.) N/A Emergency Need Yes ✓ No □ Known Flood Risk History of Flooding? Population at Risk elevation of structures, flood-proofing, early warn systems) Infrastructure Infrastructure Infrastructure Frequency of flooding: Frequency of flooding: # of structures, flood-proofing, early warn systems) Infrastructure Frequency of flooding: # of structures, flood-proofing, early warn systems) Infrastructure Infrastructure Frequency of flooding: # of structures flood of structures, flood-proofing, early warn systems)
restorations, etc.) Project Area City/ Cities County/ Counties Hidalgo HUC 8 12110207, 12110258 HUC 12 121102080100, 121102080300, 130900020311 Study Area (sq. mi.) N/A Emergency Need Yes ✓ No □ Known Flood Risk History of Flooding? Population at Risk Frequency of flooding: # of structures inundated
County/ Counties Hidalgo HUC 8 12110207,
County/ Counties Hidalgo HUC 8 12110207,
HUC 8 12110207,
12110258 HUC 12 121102080100,
HUC 12 121102080100,
121102080300, 130900020311 Study Area (sq. mi.) N/A Emergency Need Yes ✓ No □ Known Flood Risk History of Flooding? Population at Risk Frequency of flooding: # of structures inundated
130900020311 Study Area (sq. mi.) N/A Emergency Need Yes ✓ No □ Known Flood Risk History of Flooding? Population at Risk Yes ✓ No □ Frequency of flooding: # of structures inundated
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
Emergency Need Yes ✓ No □ Known Flood Risk History of Flooding? Population at Risk History of Structures inundated
Yes ✓ No □ Known Flood Risk History of Flooding? Yes ✓ No □ Frequency of flooding: Population at Risk # of structures inundated
History of Flooding? Yes ✓ No □ Frequency of flooding: Population at Risk # of structures inundated
Population at Risk # of structures inundated
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, to the minimum of t
Critical Facilities Impacted Yes \square No \square Agricultural Land impacted Yes \square No \square Notes:
Project Costs
Total Cost: \$11,495,000 Study Sponsor: Hidalgo County Drainage District No. 1 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 Hidalgo County Drainage District No. 1 Time to complete? Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

FIF, local

(Potential) Source of Funding

Yes □ No ✓





Have the flood risk and flood reduction impacts been evaluated?

Hav	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 ✓
Has	all the ROW been acquired?	Yes □ No □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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	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 municipal floodplain managers, hosted by Region 15 RFPG and available on the website	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and	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

RFPG Recommended

Yes ✓No 🗆





FMP ID: 153000094

Delta Storm_La Villa Improvements

FMP Description

Funding Dedicated?

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

Project Type ✓ Structural Project (r low water crossing, improvements, etc.	flow structur		hannelization, dams, torm drainage		Projects (Property easeme tructures, flood-proofing, e	
☐ Nature Based (Struc restorations, etc.)	tural) Project	ts (wetlands, bio	swales, river	✓ Infrastructure		
Project Area City/ Cities						
County/ Counties	Hidalgo					
HUC 8	12110207,					
	12110258					
HUC 12	121102080	100				
1100 12		•				
	1211020803					
	1309000203	311				
Study Area (sq. mi.)	N/A					
Emergency Need Yes ✓ No □						
Known Flood Risk	(
History of Flooding? Population at Risk		Yes ✓ No 🗆		requency of flooding:		
Roadways flooded Critical Facilities Im Notes:	pacted	Yes ✓ No ☐ Yes ☐ No ☐	Agricu	Miles inundated? ultural Land impacted	Yes No	
Project Costs						
Total Cost: Non-reoccurring Non-cap Cost (include in Total above Estimated year to start:		\$13,500,00	These are one-tin		Hidalgo County Drainage levelopment, education can Hidalgo County Drainage	npaign, and non-
Time to complete?				n a Hazard Mitigation n Plan or other plan?	Yes ✓ No 🗆	

(Potential) Source of Funding

FIF, local

Yes □ No ✓





Have the flood risk and flood reduction impacts been evaluated?

Have	e the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does 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 ✓
Has	all the ROW been acquired?	Yes □ No □
Will	permits or interlocal agreements be needed for this project?	Yes □ No □
Rela	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
	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	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 municipal floodplain managers, hosted by Region 15 RFPG and available on the website	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase 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□





City of Brownsville-Los Tomates

FMP ID: 153000095

FMP Description

The Impala Pump Station to be relocated west along the proposed East Loop and upgraded to include six pumps: three with a capacity of 195 cfs and three with 223 cfs. The pump is proposed to be situated within a sump with an elevation of 3 feet, within Jeronimo Banco. The Impala Pump Station pumps water out of the sump, which receives water from the Impala Ditch through five 10-foot by 8-foot culverts crossing under the proposed East Loop Road. The Jeronimo Banco and the wetland area were combined by removing the existing levee. The flowline for Jeronimo Banco was established considering the groundwater table at this location. A channel was created in the wetland area to convey flow towards the proposed levee, where three 6-foot by 6-foot reinforced (3)concrete boxes (RCB) were added based on CCRMA design plans. The section between the proposed channel and Jeronimo Banco was set one foot lower than the Jeronimo Banco flowline elevation.

Project Type

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

Project Area

City/ Cities Brownsville

County/ Counties Cameron

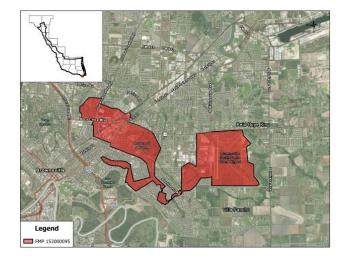
HUC 8 12110208

HUC 12 121102080900

Study Area (sq. mi.) 4.27 sq mi

Emergency Need

Yes ✓ No 🗆



Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency of flooding: 10-year storm Population at Risk # of structures inundated 399 7198 people Roadways flooded Yes ✓ No 🗆 Miles inundated? 26 Critical Facilities Impacted Yes ✓ No Agricultural Land impacted Yes □ No □ Notes:

Project Costs

Total Cost: \$40,700,000 Study Sponsor: City of Brownsville 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: 2027 City of Brownsville **Entity with Oversight** Time to complete? Included in a Hazard Mitigation Yes □ No ✓ 5 years 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, 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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
DEDC December 1 - 1	

Yes ✓ No 🗆





City of McAllen-McAllen Lateral

FMP ID: 153000096

FMP Description

The project involves two phases. Phase I includes a new drainage ditch on the east side of the existing retention pond. Partial flow from the Redbud storm system will be diverted into the proposed ditch with a 36-inch RCP. Additionally, the proposed ditch will connect to the existing retention pond by 2-36-inch equalizer pipes. The proposed ditch will connect to the existing 6-foot x 5-foot RCB at Zinnia Ave by a 48-inch RCP from the proposed ditch outfall to East Minnesota Road. At this location, the 48-inch RCP is upsized to a 60-inch RCP. Phase II includes local storm sewer improvements along Redbud Avenue. The existing Redbud storm system will be split into two sections, the western half of the system is redirected to a 42-inch RCP that discharges into the existing retention pond. The eastern half includes adding two curb inlets to capture more overland flow into the storm system.

Project Type

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

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

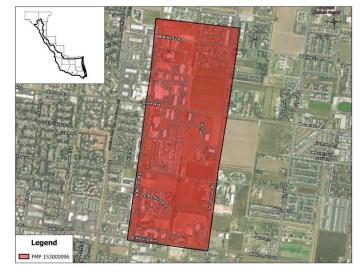
HUC 8 12110208

HUC 12 121102080300

Study Area (sq. mi.) 1.00 sq mi

Emergency Need

Yes ✓ No 🗆



Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency of flooding: 10-year storm Population at Risk # of structures inundated 434 5972 people 24 Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes No√ Agricultural Land impacted Yes ✓ No □ Notes:

Project Costs

Total Cost: \$5,604,255 Study Sponsor: City of McAllen 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: 2027 **Entity with Oversight** City of McAllen Included in a Hazard Mitigation Time to complete? 5 years Yes □ No ✓ Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓	(Potential) S	ource of Funding	FIF, local
Have the flood risk and flo	od reduction imp	pacts beer	n evaluated	?
Have the flood risk and flood reduction	n impacts been evaluated?	?	Yes ✓ No 🗆	
Does the project have any negative eff	ects, per TWDB guidelines	s?	Yes □ No 🗸	Unknown □
Does the project have a Benefit Cost R	atio 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 Supp	oly Benefit?		Yes □ No ✓	
Has all the ROW been acquired?			Yes ✓ No 🗆	
Will permits or interlocal agreements I	pe needed for this project	?	Yes ✓ No 🗆	
Related Goals				
✓ Increase community access route routes, during and after a flooding		uation 🗆	Increase the # of standards	entities that adopt higher than NFIP-minimum
 Reduce the # of newly constructe within the existing and future 100 		ies 🗆	Develop and mai	intain an operational stormwater asset
☐ Increase the # of communities pa	•	Flood 🗆		flood gauges (rainfall/stream) in the region
 Decrease the average age of FEM used to define SFHAs 	A Flood Insurance Rate Ma	aps 🗆	Increase the # of	entities that have multi-year drainage CIP list
 Increase the coverage of available studies with identified construction hazards 		-	Service and USG	entities that integrate National Weather S Texas Water Science Center (TXWSC) flood information into their local capabilities to nings
☐ Increase participation in the region				nature-based flood risk reduction projects
 Provide regional detention that co applications or as part of a floodp 			response progra	nally coordinated warning and emergency m that can detect the flood threat and provide of impending flood danger
 Increase acreage of publicly prote risk areas that is reused for a ben 		l flood 🗆	Increase the amo	ount of publicly owned land in the region that or future regional stormwater infrastructure
 Increase outreach and education municipal floodplain managers, h available on the website 			the # of them the	ficiency of floodplain managers by increasing at are certified as Certified Floodplain Managers
Increase the use reverse 911, TV, billboards to communicate flood shelter locations		es, and	Increase particip encouraging Reg	exas Floodplain Management Association ation in the Community Rating System by ion 15 floodplain management programs to cated drainage fees to implement future FMEs
 Reduce the # of structures that had flooding events through property 		ted	and FMPs; incorp	porate noncompliance penalties; and who oment in the future conditions floodplain
RFPG Recommended				
Yes ✓ No 🗆				





City of McAllen-El Rancho

FMP ID: 153000097

FMP Description

The El Rancho improvements include phased upgrades to the drainage system, starting with flap gates at outfalls and new 24"-54" RCP pipes along McColl, G Ln., Ridgeland, and El Rancho areas to enhance flow management. Inlets, laterals, and junction boxes will be added or upsized at key intersections to improve efficiency. Subsequent phases include additional connections and expanded pipelines along Agusta and El Rancho, with parallel systems and equalizing structures to handle higher flow rates. The final phase focuses on integrating new pipes and connections along Ridgeland, G St., and H St.

Project Type

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

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

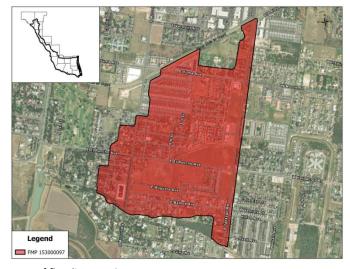
HUC 8 12110208

HUC 12 121102080300

Study Area (sq. mi.) 0.59 sq mi

Emergency Need

Yes ✓ No 🗆



Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency of flooding: 10-year storm Population at Risk ~ 152 people # of structures inundated 91 Roadways flooded Yes ✓ No □ Miles inundated? Agricultural Land impacted Critical Facilities Impacted Yes□ No√ Yes ✓ No □ Notes:

Project Costs

\$8,836,000 **Total Cost:** Study Sponsor: City of McAllen 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: 2027 **Entity with Oversight** City of McAllen Time to complete? 5 years Included in a Hazard Mitigation Yes □ No ✓ Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding 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	☐ 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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 	 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
shelter locationsReduce 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
RFPG Recommended	





City of Del Rio-San Felipe Creek RSWF A Regional Detention

FMP ID: 153000098

FMP Description

San Felipe Creek RSWF A Regional Detention will encompass approximately 55 acres of land within the Jap Lowe are of the City of Del Rio. Stormwater will enter through the east and southeast of the property, and outfall to the north via a 36" Reinforced Concrete Pipe (RCP) and Trapezoidal Concrete Weir that is 20' long, 4' deep and has a 4':1' (Horizontal:Veritcal) slope.

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 Del Rio

County/ Counties Val Verde

HUC 8 1308000102

HUC 12 130800010205,130800010207

Study Area (sq. mi.) 0.09 sq mi

Legend PMP 153000098

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency of flooding: 10-year storm Population at Risk 403 815 people # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? 3.8 Agricultural Land impacted Critical Facilities Impacted Yes**√** No □ Yes 🗆 No ✓ Notes:

Project Costs

Total Cost: \$ 35,313,949 Study Sponsor: City of Del Rio Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. City of Del Rio Estimated year to start: 2027 **Entity with Oversight** Time to complete? 5 years Included in a Hazard Mitigation Yes □ No ✓ Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Yes ✓ No 🗆



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

1141	e the hood hak and hood reduction impacts k	,	n evaluated.
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 ✓
Has	all the ROW been acquired?		Yes ✓ No □
Will	permits or interlocal agreements be needed for this project?		Yes ✓ No □
Rela	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		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		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		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
	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
RFP	G Recommended		





City of Del Rio-San Felipe Watershed Creek Berm

FMP ID: 153000099

FMP Description

San Felipe Watershed Creek- Berm (Bioretention). Removed San Felipe Creek RSWF B Regional Detention due to it being an economical unfeasible project. Three 10'x10' box culverts will be placed at the center of the natural channel of San Felipe Creek. The berm itself will be constructed at a normal height of 1026.50' relative to sea level, with a width of 30 feet.

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 Del Rio

County/ Counties Val Verde

HUC 8 1308000102

HUC 12 130800010205,130800010207

Study Area (sq. mi.) 0.004 sq mi

Coll Fits Coll Fits

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: Yes ✓ No 🗆 10-year storm Population at Risk # of structures inundated 407 815 people Roadways flooded Miles inundated? 4.16 Yes ✓ No 🗆 Agricultural Land impacted Critical Facilities Impacted Yes√ No 🗆 Yes 🗆 No ✓ Notes:

Project Costs

Total Cost: \$ 1,806,000 City of Del Rio Study Sponsor: Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. 2027 Estimated year to start: **Entity with Oversight** City of Del Rio Included in a Hazard Mitigation Time to complete? 5 years 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?

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 	 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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 🗆





City of Del Rio-Cantu Watershed Regional Stormwater Detention

FMP ID: 153000100

FMP Description

The project proposes to excavate approximately 38 acres and create a berm elevated to 1053 with 4':1' (Horizontal:Vertical) side slopes to allow for easier maintenance. The west berm will have 3 - 6'x3' Reinforced Concrete Boxes (RCB) to capture runoff on the west of US 277; the east side will have 3 - 8'x3' RCB to capture runoff from the north; and the outlet will be 1 - 4'x4' RCB which will then continue flowing downstream the "Cantu Branch" where it ultimately is collected into the identified Cienegas Creek.

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 Del Rio

County/ Counties Val Verde

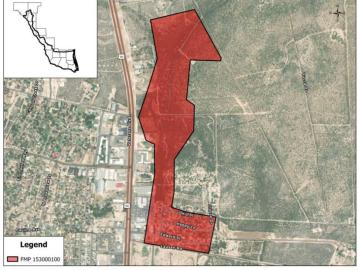
HUC 8 1308000102

HUC 12 130800010205,130800010207

Study Area (sq. mi.) 0.70 sq mi

Emergency Need

Yes □ No 🗸



Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk 155 people

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No ✓

Frequency of flooding: 10-year storm # of structures inundated 67
Miles inundated? 0.63
Agricultural Land impacted Yes □ No ✓

Project Costs

Notes:

Total Cost: \$ 11,233,644 Study Sponsor: City of Del Rio Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above): 2027 Estimated year to start: **Entity with Oversight** City of Del Rio Included in a Hazard Mitigation Time to complete? 5 years Yes □ No ✓ Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding 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	☐ 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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 	 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
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
RFPG Recommended	





City of Del Rio-Buena Vista Park Regrade

FMP ID: 153000101

FMP Description

Buena Vista Park Regrade proposes to widen the existing Buena Vista Park drainage system with a trapezoidal cross section. The side slopes would be within the Buena Vista Park Right-Of-Way and consist of side slopes at a maximum of 4':1' (Horizontal:Vertical). The side slopes will transition to the existing slopes at the low water crossings of Kings Way, Alta Vista Drive and Margaret Lane, to include the necessary culverts This would have positive drainage from the Margaret Lane existing low water crossing to just upstream of the tributary between the "Cantu Branch" stream and the identified Cienegas Creek.

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 Del Rio

County/ Counties Val Verde

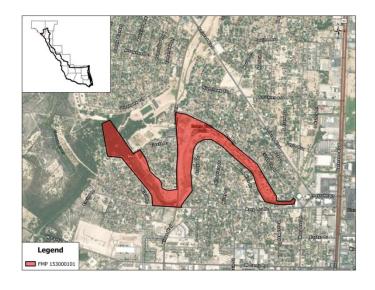
HUC 8 1308000102

HUC 12 130800010205,130800010207

Study Area (sq. mi.) 0.70 sq mi

Emergency Need

Yes □ No ✓



Known Flood Risk

History of Flooding? Yes ✓ No □		Frequency of flooding:	10-year	· storm
Population at Risk	3 people	# of structures inundated	4	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	0.28	
Critical Facilities Impacted	Yes □ No ✓	Agricultural Land impacted	Yes 🗆	No √
Notes:				

Project Costs

Total Cost:	\$ 6,161,309	Study Sponsor:	City of Del Rio	
Non-reoccurring Non-capital	\$	\$ These are one-time costs for program development, education campaign, and no		
Cost (include in Total above):		engineering study costs.		
Estimated year to start:	2027	Entity with Oversight	City of Del Rio	
Time to complete?	5 years	Included in a Hazard Mitigation	Yes □ No ✓	
		Action Plan or other plan?		
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	FIF, local	



Yes ✓ No 🗆



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Trave the hood has and hood reduction impacts i	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
 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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	☐ 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
RFPG Recommended	





City of Del Rio-Kings Way Site 1 at Cantu Branch FMP ID: 153000102

FMP Description

Buena Vista Park Regrade proposes to widen the existing Buena Vista Park drainage system with a trapezoidal cross section. The side slopes would be within the Buena Vista Park Right-Of-Way and consist of side slopes at a maximum of 4':1' (Horizontal:Vertical). The side slopes will transition to the existing slopes at the low water crossings of Kings Way, Alta Vista Drive and Margaret Lane, to include the necessary culverts This would have positive drainage from the Margaret Lane existing low water crossing to just upstream of the tributary between the "Cantu Branch" stream and the identified Cienegas Creek.

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 Del Rio

County/ Counties Val Verde

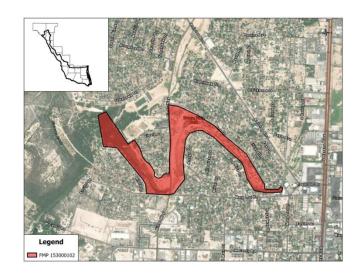
HUC 8 1308000102

HUC 12 130800010205,130800010207

Study Area (sq. mi.) 0.01 sq mi

Emergency Need

Yes □ No ✓



Known Flood Risk

History of Flooding? Yes ✓ No □		Frequency of flooding:	10-year storm	
Population at Risk	3 people	# of structures inundated	4	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	0.32	
Critical Facilities Impacted	Yes □ No ✓	Agricultural Land impacted	Yes 🗆	No ✓
Notes:				

Project Costs

Total Cost:	\$ 1,032,499	Study Sponsor: (City of Del Rio	
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:	2027	Entity with Oversight (City of Del Rio	
Time to complete?	5 years	Included in a Hazard Mitigation	Yes □ No ✓	
		Action Plan or other plan?		
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	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	☐ 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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
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
RFPG Recommended	





FMP ID: 153000103

City of Del Rio-San Felipe Neighborhood (Detention & Drainage System)

FMP Description

The proposed storm system at the San Felipe Neighborhood had previous recommendations of implementing curb and gutter to alleviate surface ponding coming from a culvert located on US 90. The proposed solution would take the previous recommendation of curb and gutter, but would also include new drainage facilities. These would include 24" and 36" Reinforced Concrete Pipe (RCP), curbed inlets, headwalls and a detention pond located in a mostly undeveloped lot at the Gutierrez Street and Vitela Street intersection. From here an 8'x4' Reinforced Concrete Box (RCB) would convey runoff to the east until it reaches the lower lying areas adjacent to the Calaveras Creek.

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 Del Rio

County/ Counties Val Verde

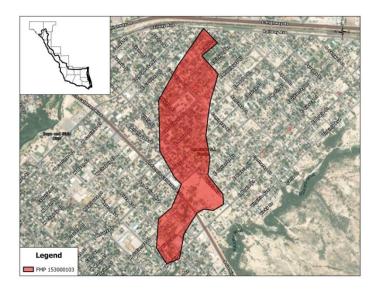
HUC 8 1308000102

HUC 12 130800010205,130800010207

Study Area (sq. mi.) 0.01 sq mi

Emergency Need

Yes □ No ✓



Known Flood Risk

History of Flooding? Frequency of flooding: 10-year storm Yes ✓ No 🗆 Population at Risk # of structures inundated 435 people 217 Roadways flooded Yes ✓ No 🗆 Miles inundated? 1.44 Critical Facilities Impacted Yes □ No ✓ Agricultural Land impacted Yes 🗆 No ✓ Notes:

Project Costs

Total Cost: \$ 3,324,768 City of Del Rio Study Sponsor: 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: 2027 **Entity with Oversight** City of Del Rio Time to complete? 5 years 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	☐ 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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	





Hidalgo County Drainage District No 1- South Lateral

FMP ID: 153000104

FMP Description

Expansion of drainage improvement measures to mitigate residual drainage impacts for the South Lateral Drain from the drain intersections of South Stewart Rd. up to the IBWC Levee near Pharr, TX.

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 12110208,13090002

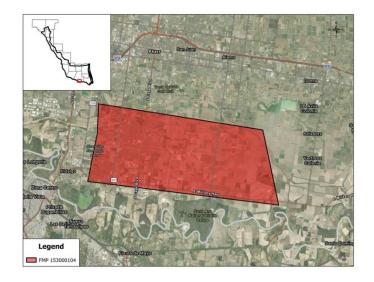
HUC 12 121102080800,130900020403,

121102080900

Study Area (sq. mi.) 35.9 sq mi

Emergency Need

Yes □ No 🗸



Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:		
Population at Risk	5009 people	# of structures inundated	1604	
Roadways flooded	Yes□ No ✓	Miles inundated?	40.9	
Critical Facilities Impacted	Yes □ No ✓	Agricultural Land impacted	Yes ✓	No □
Notes:				

Project Costs

Total Cost:	\$ 13,150,873	Study Sponsor:	Hidalgo Drainage District No.1	
Non-reoccurring Non-capital	\$	These are one-time costs for program development, education campaign, and no		
Cost (include in Total above):		engineering study costs.		
Estimated year to start:	2027	Entity with Oversight	Hidalgo Drainage District No.1	
Time to complete?	5 years	Included in a Hazard Mitigation	Yes □ No ✓	
		Action Plan or other plan?		
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	FIF, local	
Funding Dedicated?	Yes □ No ✓	Action Plan or other plan?	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	☐ 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	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 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 	 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
RFPG Recommended	





Cameron County Irrigation District No. 6 River Pump Station Elevation of Electrical Equipment above Flood Plain

FMP ID: 153000105

FMP Description

The District First Lift Pump Station was constructed to be flood proofed to the original levee height. Two subsequent improvements by the IBWC have raised the levee significantly placing the original equipment in the floodplain. This project updates the electrical equipment and elevates the equipment above the 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 Cameron

HUC 8 12110208,13090002,13090001

HUC 12 130900020305,130900011705,121102080100,

121102080600,121102080300,121102080400,

130900020301,130900020401,130900020311,

121102080200,121102080500

Study Area (sq. mi.) 0.01 sq mi

Emergency Need

Yes □ No ✓

Known Flood Risk

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

Population at Risk 0 people # of structures inundated 1

Roadways flooded Yes ✓ No □ Miles inundated? 0

Critical Facilities Impacted Yes □ No ✓ Agricultural Land impacted Yes □ No ✓

Notes:

Project Costs

Total Cost: \$ 1,300,000 Study Sponsor: City of Del Rio

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





Estimated Time to co	year to start:	2027 5 years		tity with Oversight Hazard Mitigation	City of Del Rio Yes □ No ✓
111110 10 00	mprece.	3 years		Plan or other plan?	
Funding D	edicated?	Yes □ No ✓	(Potential)	Source of Funding	FIF, local
Have th	e flood risk and flo	ood reduction	impacts be	en evaluated	?
Have the f	flood risk and flood reductio	n impacts been evalu	ated?	Yes ✓ No 🗆	
Does the p	project have any negative ef	fects, per TWDB guid	elines?	Yes □ No ✓	Unknown □
Does the	oroject have a Benefit Cost R	Ratio greater than 1?		Yes ✓ No 🗆	Unknown □
Does the p	project reduce flood risk for	the 100-Yr flood eve	nt?	Yes ✓ No 🗆	Unknown □
Does the I	Project provide a Water Sup	ply Benefit?		Yes □ No ✓	
Has all the	e ROW been acquired?			Yes ✓ No 🗆	
Will perm	its or interlocal agreements	be needed for this pr	oject?	Yes ✓ No 🗆	
Related	Goals				
	ase community access route es, during and after a floodin		evacuation \square	Increase the # of standards	fentities that adopt higher than NFIP-minimum
Redu	ce the # of newly constructe	ed vulnerable critical	facilities \square	Develop and ma	intain an operational stormwater asset
	n the existing and future 100 ase the # of communities pa		ional Flood	management pla	an f flood gauges (rainfall/stream) in the region
	ance Program	inticipating in the Nat		mercuse the # of	nood gauges (rannan) stream) in the region
	ease the average age of FEM to define SFHAs	IA Flood Insurance Ra	ate Maps	Increase the # of	fentities that have multi-year drainage CIP list
	ase the coverage of available				f entities that integrate National Weather
studi hazai	es with identified constructions rds	on projects to addres	ss flooding		S Texas Water Science Center (TXWSC) flood information into their local capabilities to
				disseminate war	
	ase participation in the region				nature-based flood risk reduction projects
	de regional detention that c cations or as part of a floodp				nally coordinated warning and emergency m that can detect the flood threat and provide
аррп	cations of as part of a mooap	olani managemene pi	og. um		of impending flood danger
	ase acreage of publicly prote		critical flood		ount of publicly owned land in the region that
	reas that is reused for a ben ase outreach and education		v targeting □		or future regional stormwater infrastructure ficiency of floodplain managers by increasing
	cipal floodplain managers, h				at are certified as Certified Floodplain Managers
	able on the website				exas Floodplain Management Association
	ase the use reverse 911, TV, pards to communicate flood				ation in the Community Rating System by gion 15 floodplain management programs to
	er locations	warmigs, evacuation	routes, and		icated drainage fees to implement future FMEs
	ce the # of structures that he ing events through property		epeated		porate noncompliance penalties; and who ment in the future conditions floodplain
	ecommended	,		. 56 2.210 4010101	
Yes ✓ N					





Weslaco Stormwater Improvement Plan – Kansas & Los Torritos

FMP ID: 153000122

FMP Description

Addtion of storm drain to capture neighborhood runoff to new 30-Acre Detention Pond and Channel widening to exisitng drainage system

Project Type

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

Project Area

City/ Cities Weslaco

County/ Counties Hidalgo

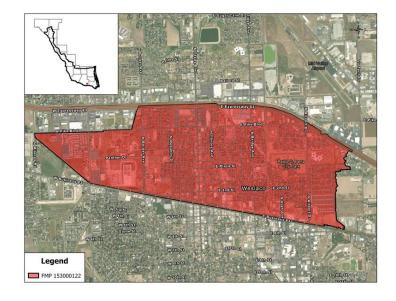
HUC 8 12110207,

12110231

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) 2.06



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding: 100yr

Population at Risk # of structures inundated 1224

Roadways flooded Yes ✓ No □ Miles inundated? 26.4

Critical Facilities Impacted Yes ✓ No □ Agricultural Land impacted Yes ✓ No □

Notes:

Project Costs

Total Cost: \$21,077,000 Study Sponsor: City of Weslaco
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: 2026 Entity with Oversight City of Weslaco Time to complete? 5 years 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? 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 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 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 penalties; and who regulate development in the future repeated flooding events through property buyouts

conditions floodplain

RFPG Recommended

Yes ✓ No 🗆