

Task 12 FMXs

Batch	Page	New Action Number	Old Action Number (To be removed)	Type	Sponsor	Project	Notes	TC Rec (Y/N)	Tech Committee Rec Date	RFPG Rec (Y/N)	RFPG Rec Date
1	2	101000043	101000043	FME	Fredericksburg (Municipality)	Barons Creek Watershed	Recommend revised FME	Yes	5/15/2023		
1		101000189	101000189	NA	Edna (Municipality)	Wastewater Treatment Plant Floodproofing (Task 12) (Remove from RFP)	Recommend remove - not flood project				
1	3	103000060	101000027	FMP	Bastrop County	FM 812 at Little Alum Creek	Recommend new FMP	Yes	5/15/2023		
1	4	103000061	101000102	FMP	Bastrop County	Piney Creek Mitigation	Recommend new FMP	Yes	5/15/2023		
1	5	103000065	101000206	FMP	Fredericksburg (Municipality)	Creek Street at Barons Creek	Recommend new FMP	Yes	5/15/2023		
1	6	103000066	101000167	FMP	Marble Falls (Municipality)	Broadway Street at Whitman Branch Low Water Crossing	Recommend new FMP	Yes	5/15/2023		
1	7	103000067	101000116 and 101000165	FMP	Marble Falls (Municipality)	Whitman Branch Bypass; Oak Ridge Dr Creek, including Detention	Recommend new FMP	Yes	5/15/2023		

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

Title ID#

Sponsor (name of entity) Commitment Yes No

Technical committee recommend Yes No RFPG recommend Yes No

Study Type

Emergency preparedness Floodplain modeling, mapping and risk assessment Feasibility study Preliminary project engineering
 Other

Problem Area

City County

Watershed name(s)

Tributary(ies)

HUC# Stream miles (est.)

Drainage area: square miles, est. or acreage, est.

Social vulnerability index

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other



Flood Risk Description

This study evolved out of the previous Edison Street at Barons Creek Study. The project was identified based on staff knowledge and was intended to reduce local street flooding, mobility, with possible structural risk reduction. The project was evaluated under Task 12 of the planning process. A 2D rain-on-grid model was developed to analyze proposed local drainage improvements and related alternatives. Due to the limited local flood risk reduction benefits, the city amended the action to include a broader study area to evaluate potential drainage system and/or roadway improvements for the residential areas upstream of Milam Street.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (miles)

Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impact, preparation of cost estimate and a benefit-cost analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation project.

Estimated Study Cost

Cost Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or County) Commitment Yes No
Technical committee recommend Yes No RFPG recommend Yes No

REGION 10

Project Type

STRUCTURAL

Detention Channel modification Bridge/culvert Storm drain Levee/floodwall

Other

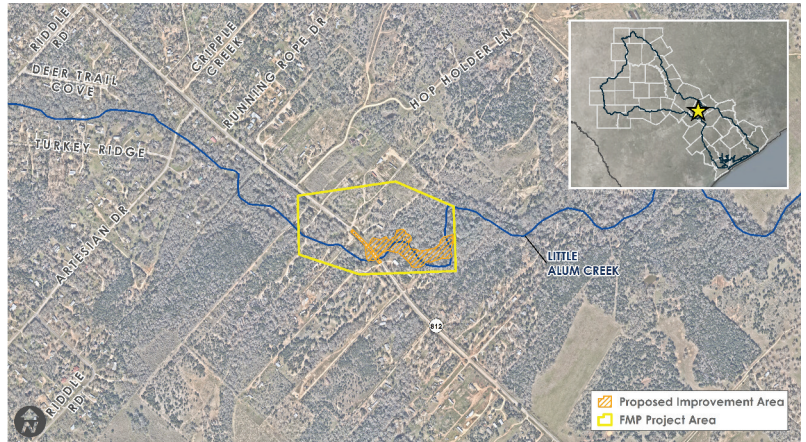
NON-STRUCTURAL

Property buyouts Floodproofing Flood readiness/resilience Flood warning system/gauges

Other

Problem Area

City County
Watershed name(s)
Tributary(ies)
HUC#(s) Stream miles (est.)
Drainage area: square miles, est or acreage, est
Social Vulnerability Index (SVI)
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)
Other



Flood Risk Description

Bastrop County identified FM 812 at Little Alum Creek of high importance to increase the level of service and provide safe access to residential areas to use as their primary ingress and egress. The existing structure (2 – 7' x 7' box culverts) where FM 812 crosses Little Alum Creek does not have a 2-year level of service. In addition to the road overtopping, there is one residential structure located near the crossing in the FEMA effective 100-year floodplain.

Proposed level-of-service Status Atlas 14 rainfall used

Project Description

The proposed improvements include raising FM 812 and replacing the existing 2 – 7' x 7' box culverts with a 2-span bridge with each span measuring 70 feet (for a total bridge length of 140 feet) and approximately 510 feet of roadway improvements. Proposed improvements for Little Alum Creek include benching into the channel banks approximately 1,930 feet while avoiding the ordinary high water mark.

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
 Sponsor (note if City or County) Commitment Yes No
 Technical committee recommend Yes No RFPG recommend Yes No

Project Type

STRUCTURAL

Detention Channel modification Bridge/culvert Storm drain Levee/floodwall

Other

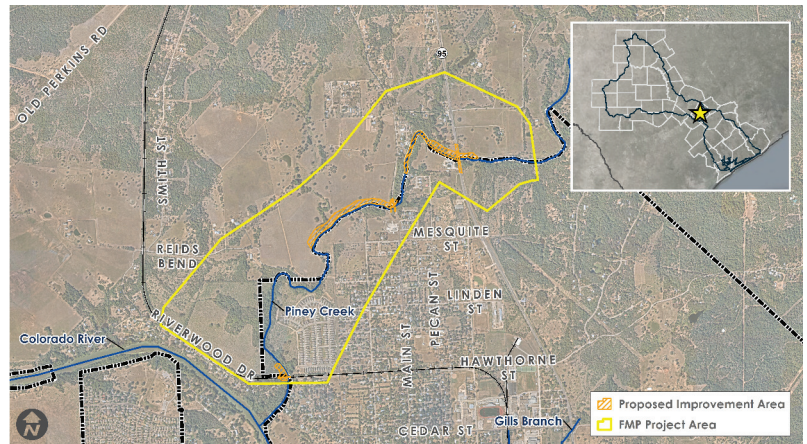
NON-STRUCTURAL

Property buyouts Floodproofing Flood readiness/resilience Flood warning system/gauges

Other

Problem Area

City County
 Watershed name(s)
 Tributary(ies)
 HUC#(s) Stream miles (est.)
 Drainage area: square miles, est or acreage, est
 Social Vulnerability Index (SVI)
 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)
 Other



Flood Risk Description

The existing condition flood risk includes three road crossings that overtop and two subdivisions that flood during the 100-year storm event. Overtopping roads include SH 95, Main Street, and Reids Bend. These roads are access routes for residents in and out of the City of Bastrop. The two subdivisions that are located in close proximity to the channel banks of Piney Creek are Bastrop Estates Mobile Home Park and Mercedes Cove subdivision, both of which are located in the FEMA regulated 100-year floodplain.

Proposed level-of-service Status Atlas 14 rainfall used

Project Description

The proposed improvements provide an all-weather access (100-year level of service) at SH 95 and reduces overtopping at Main Street and Reids Bend during the 100-year storm event. The project improvements include approximately 4,150 LF of channel benching, 2,200 LF of channel clearing or vegetation thinning, and bridge improvements at UPRR bridge, Main Street and pedestrian bridge, and SH 95. UPRR bridge is proposed to be widened from a 150 foot span to a 300 foot span. Main Street bridge is currently a 100 foot span and is being proposed to a 300 foot span. The pedestrian bridge at Main Street is a 50 foot span and is proposed to be a 300 foot span to match Main Street. And finally, SH 95 is currently a 60 foot span and is proposed to be a 250 foot span.

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis
 Potential funding source(s)

Flood Mitigation Project (FMP)

Title	ID#		Commitment		Yes	No
Sponsor (note if City or County)			Yes	No		
Technical committee recommend	Yes	No	RFPG recommend	Yes	No	

Project Type

STRUCTURAL

Detention Channel modification Bridge/culvert Storm drain Levee/floodwall

Other

NON-STRUCTURAL

Property buyouts Floodproofing Flood readiness/resilience Flood warning system/gauges

Other

Problem Area

City _____ County _____

Watershed name(s) _____

Tributary(ies) _____

HUC#(s) _____ Stream miles (est.) _____

Drainage area: square miles, est _____ or acreage, est _____

Social Vulnerability Index (SVI)
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Other _____



Flood Risk Description

Proposed level-of-service _____ Status _____ Atlas 14 rainfall used

Project Description

Related Goal(s)

Estimated Project Cost

Capital cost _____ Ongoing O&M costs _____ Cost/benefit analysis _____

Potential funding source(s) _____

Flood Mitigation Project (FMP)

Title	ID#			Commitment		
Sponsor (note if City or County)	Yes	No	RFPG recommend	Yes	No	No
Technical committee recommend	Yes	No	RFPG recommend	Yes	No	No

Project Type

STRUCTURAL

Detention Channel modification Bridge/culvert Storm drain Levee/floodwall

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NON-STRUCTURAL

Property buyouts Floodproofing Flood readiness/resilience Flood warning system/gauges

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Problem Area

City _____ County _____

Watershed name(s) _____

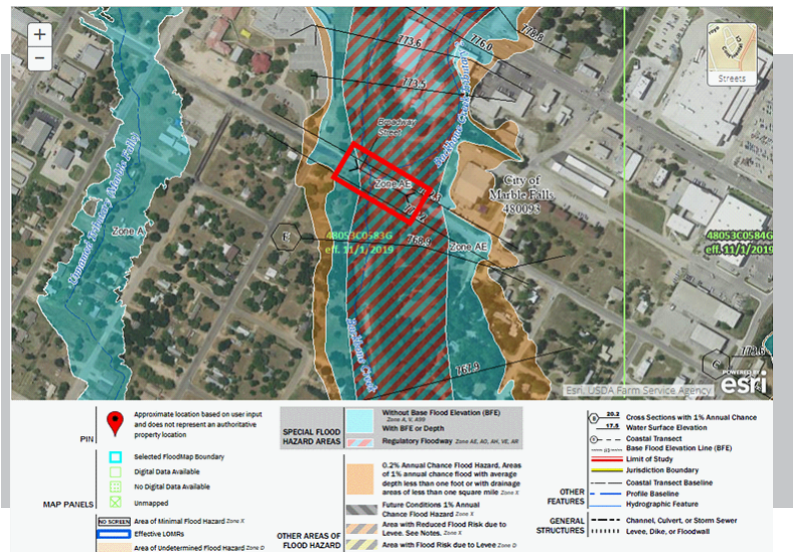
Tributary(ies) _____

HUC#(s) _____ Stream miles (est.) _____

Drainage area: square miles, est _____ or acreage, est _____

Social Vulnerability Index (SVI)
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Other _____



Flood Risk Description

Proposed level-of-service Status Atlas 14 rainfall used

Project Description

Related Goal(s)

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis

Potential funding source(s)

Flood Mitigation Project (FMP)

Title	ID#				
Sponsor (note if City or County)	Commitment		Yes	No	
Technical committee recommend	Yes	No	RFPG recommend	Yes	No

REGION 10

Project Type

STRUCTURAL

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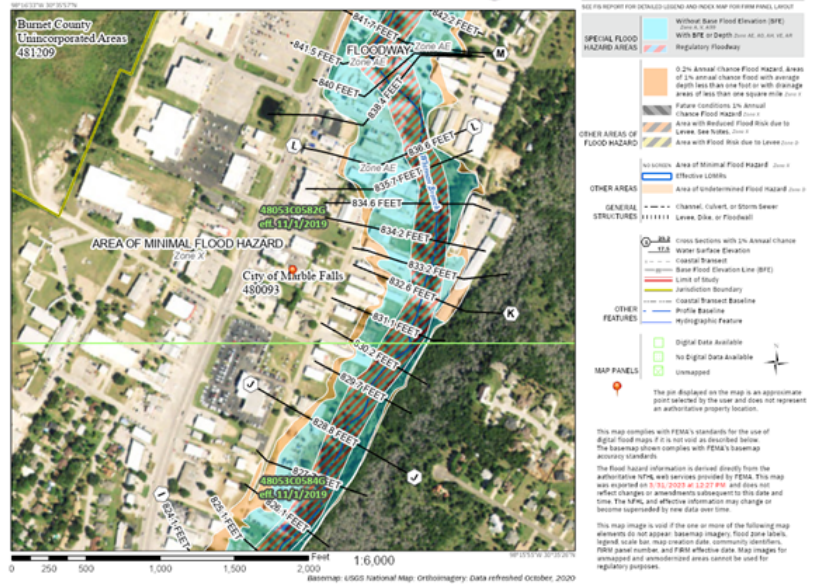
Drainage area: square miles, est _____ or acreage, est _____

Social Vulnerability Index (SVI)
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other

Flood Risk Description

National Flood Hazard Layer FIRMette



Proposed level-of-service _____ Status _____ Atlas 14 rainfall used

Project Description

Related Goal(s)

Estimated Project Cost

Capital cost _____ Ongoing O&M costs _____ Cost/benefit analysis _____

Potential funding source(s)