

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

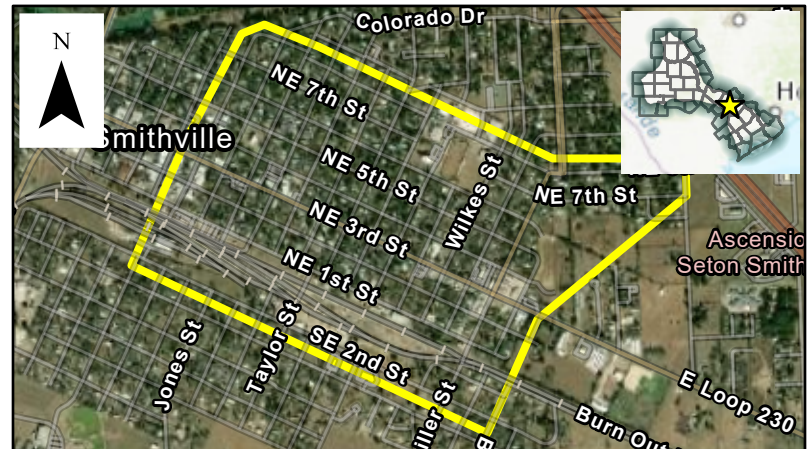
Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### 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

The sponsor has indicated the existing stormwater infrastructure in the study area is undersized (less than 25-year capacity) and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Shiloh Road Bridge West of State HWY 304** ID# **101000002**  
Sponsor (name of entity) **Bastrop (County)** Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

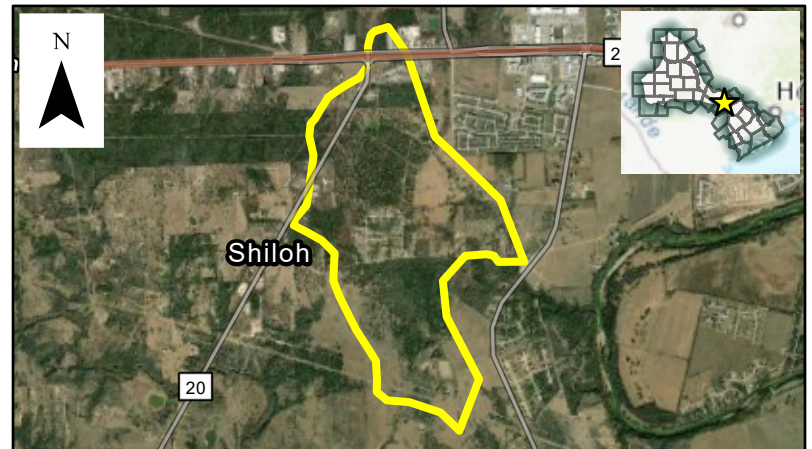
REGION 10

### Study Type

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

### Problem Area

City **N/A** County **Bastrop**  
Watershed **Lower Colorado - Cummins**  
name(s)  
Tributary(ies) **Unnamed Tributary**  
HUC# **12090301** Stream miles (est.) **1.20**  
Drainage area: square miles, est. **1.74** or acreage, est. **1,114**  
Social vulnerability index **0.61**  
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other **Roadway/Crossing Improvements & Storm Drainage System**



### Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a multi-box (2) culvert. The proposed improvements include an upgrade to the subject crossing. The existing road is a 2-lane road with an average daily traffic count of 917.

Population at risk **2** Structures at risk **1** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (miles) **0.15**

### Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **TBD**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe crossing. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 341.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

There are multiple low water crossings that are undersized. The proposed improvements include installing multiple box culverts at each crossing. The existing road is a 2-lane road with an average daily traffic count of 115. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

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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

The sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

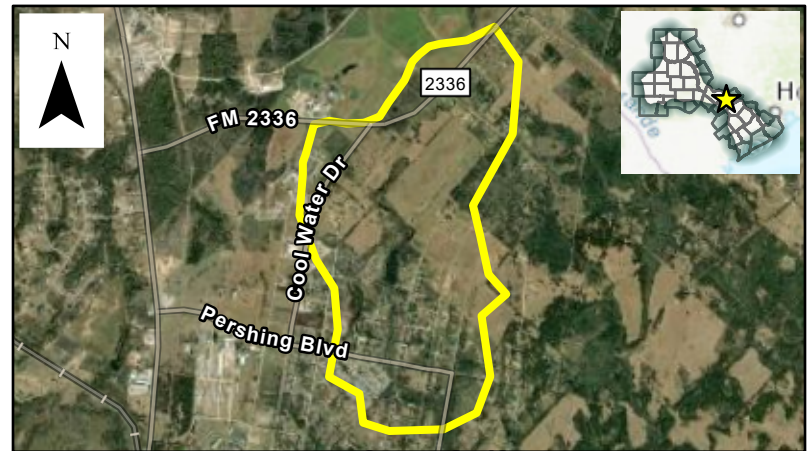
REGION 10

### 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

The road is a low water crossing with no method of conveyance other than over topping at this location. The proposed improvements include a box culvert-bridge. The existing road is a 2-lane road with an average daily traffic count of 841.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate the proposed culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe. The proposed improvements include a box culvert replacement. The existing road is a 2-lane road with an average daily traffic count of 942.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

Clear Springs Lake is impounded by an earthen embankment dam with an earthen spillway. The spillway is eroding threatening downstream houses and potential breach. The dam does not appear to be regulated by the TCEQ due to size and volume and the existing flood risk is not well defined. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects.

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title Pecan Shores Subdivision ID# 101000009  
Sponsor (name of entity) Bastrop (County) Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### Study Type

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

### Problem Area

City N/A County Bastrop  
Watershed Willow Creek - Colorado River  
name(s)  
Tributary(ies) Unnamed Tributary  
HUC# 12090301 Stream miles (est.) TBD  
Drainage area: square miles, est. 0.05 or acreage, est. 29  
Social vulnerability index 0.61  
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other Voluntary buyout of homes in 100-year FP (48 homes)



### Flood Risk Description

There are up to 48 flood prone properties on/near Pecan Shores Drive that are within the 100-year floodplain and subject to repetitive loss.

Population at risk 144 Structures at risk 48 Critical facilities at risk 0  
Farm/Ranch land impacted (acres) 18 Roadway(s) impacted (miles) 0.43

### Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners.

### Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

### Estimated Study Cost

Cost \$150,000 Potential funding source(s) TBD

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

There are up to 22 flood prone properties on/near Hidden Shores Loop that are within the 100-year floodplain and subject to repetitive loss.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners.

### Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

There are up to 12 flood prone properties on/near Waters Edge Terrace Drive that are within the 100-year floodplain and subject to repetitive loss.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners.

### Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#

Sponsor (name of entity)  Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a multiple box culvert. The proposed improvements include upgrades to the existing crossing. The existing road is a 2-lane road with an average daily traffic count of 115.

Population at risk  Structures at risk  Critical facilities at risk

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

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Paffen Rd & Grassy Creek Draw** ID# **101000013**

Sponsor (name of entity) **Bastrop (County)** Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### Study Type

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

### Problem Area

City **N/A** County **Bastrop**

Watershed **Lower Colorado - Cummins**  
name(s)

Tributary(ies) **Unnamed Tributary**

HUC# **12090301** Stream miles (est.) **1.25**

Drainage area: square miles, est. **1.01** or acreage, est. **647**

Social vulnerability index **0.61**

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

Other **Roadway/Crossing Improvements & Storm Drainage System**



### Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe crossing. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 24.

Population at risk **0** Structures at risk **0** Critical facilities at risk **0**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (miles) **0.05**

### Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **TBD**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

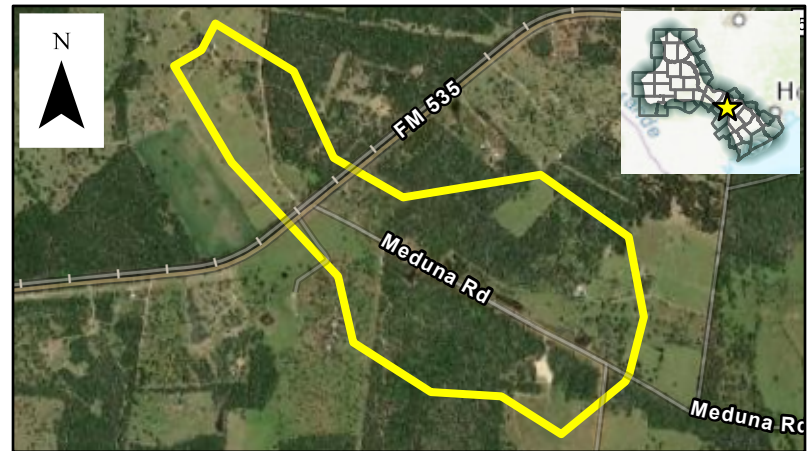
REGION 10

### 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

The existing crossing is undersized and overtops. There does not appear to be an existing culvert or bridge. The proposed improvements include upgrades to the subject crossing. The existing road is a 2-lane road with an average daily traffic count of 65.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe crossing. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 230.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

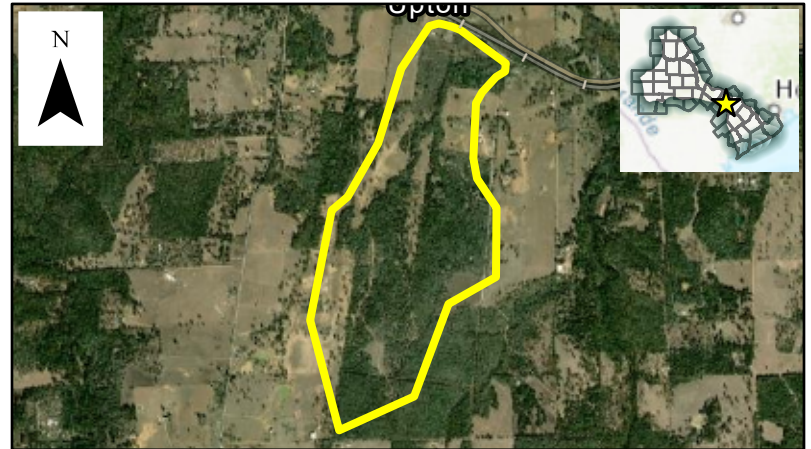
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### Study Type

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

The existing crossing is undersized and overtops. The existing crossing is a multiple box culvert. The proposed improvements include an upgrade of the subject crossing. The existing road is a 2-lane road with an average daily traffic count of 11.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

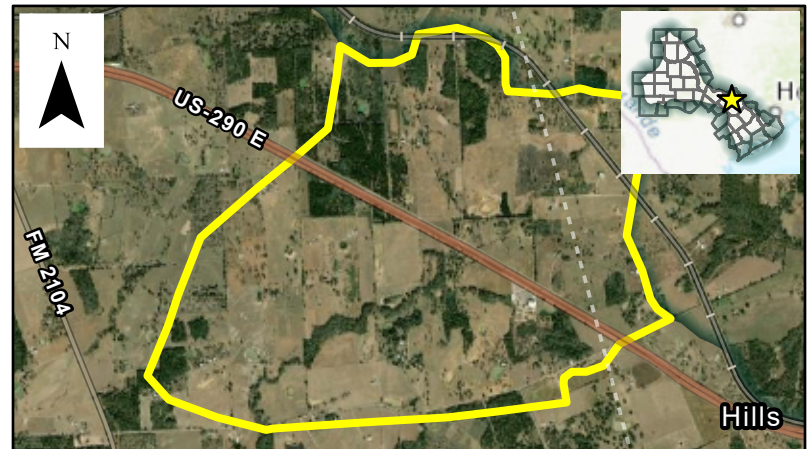
REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a single box culvert. The proposed improvements include a multi-box (3) culvert. The existing road is a 2-lane road with an average daily traffic count of 38.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a wooden bridge. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 39.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing bridge. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#

Sponsor (name of entity)  Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 398.

Population at risk  Structures at risk  Critical facilities at risk

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

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe. The proposed improvements include a multi-box (2) culvert-bridge. The existing road is a 2-lane road with an average daily traffic count of 251.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 411.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

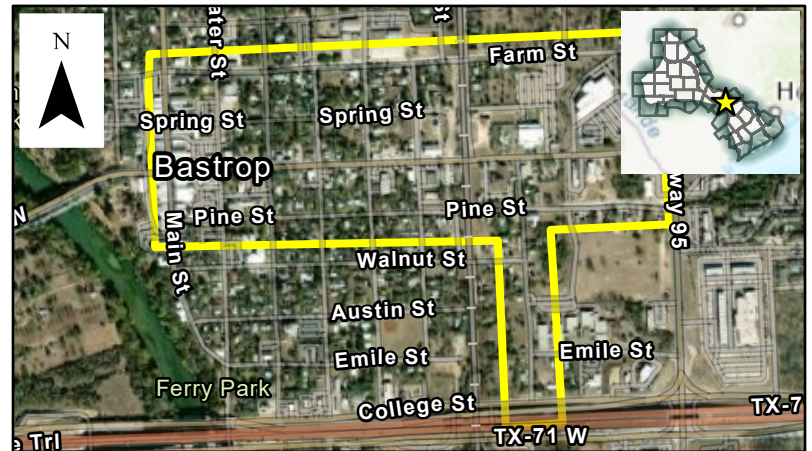
REGION 10

### 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

The existing crossings are undersized and overtop. The existing crossing is multiple box culverts and other bridge openings. The proposed improvements include upgrades to the subject crossings along with channel modifications. The existing main stem road is a 2-lane road with an average daily traffic count of 8,488.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossings and channel modifications. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#

Sponsor (name of entity)  Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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)

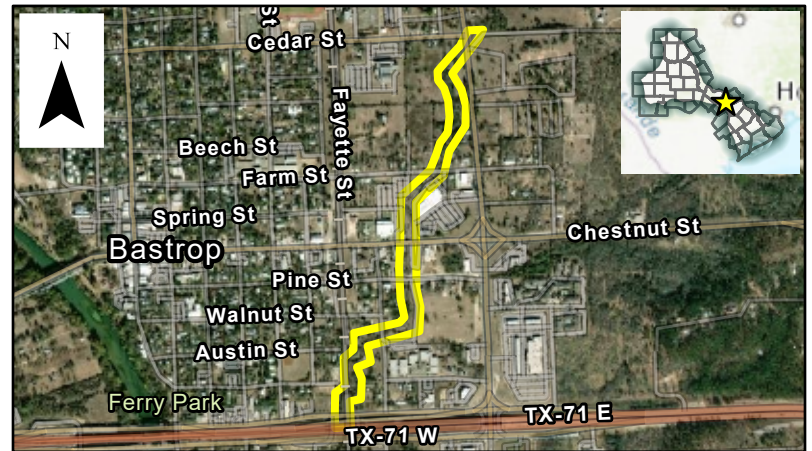
HUC#  Stream miles (est.)

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

Gills Branch Creek watershed has undersized stormwater infrastructure including the creek, bridges/culverts, and the associated drainage system. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

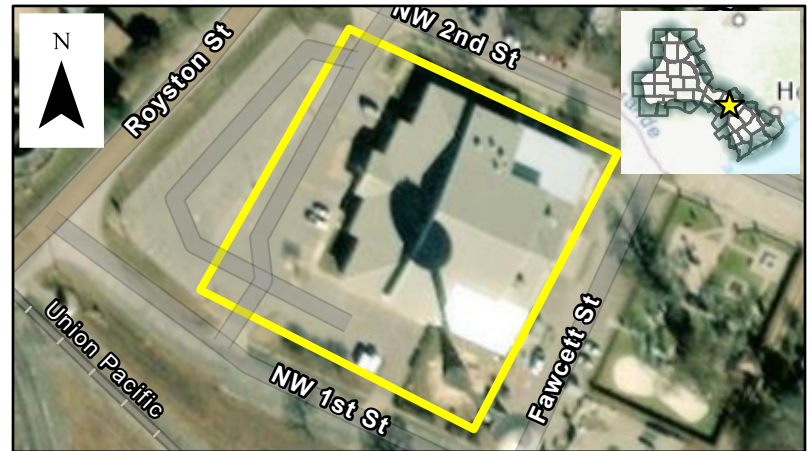
Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### 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

Sponsor has indicated the desire to expand and improve the shelter-in-place capability of the Center.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Evaluate the existing building and determine feasibility and costs associated with providing expanded capacity.

### Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **FM 812 at Little Alum Creek** ID# **101000027**  
Sponsor (name of entity) **Bastrop (County)** Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### Study Type

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

### Problem Area

City **N/A** County **Bastrop**  
Watershed **Alum Creek - Walnut Creek**  
name(s)  
Tributary(ies) **Little Alum Creek**  
HUC# **12090301** Stream miles (est.) **TBD**  
Drainage area: square miles, est. **1.88** or acreage, est. **1,201**  
Social vulnerability index **0.61**  
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other **Roadway/Crossing Improvements & Channel Improvements**



### Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a bridge. The proposed improvements include construction of a 200 foot bridge and 2,200 feet of channel modifications. The existing main stem road is a 2-lane road with an average daily traffic count of 9,088. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk **75** Structures at risk **25** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **60** Roadway(s) impacted (miles) **0.31**

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossings and channel modifications. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **TBD**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **FM 812 at Alum Creek South** ID# **101000028**

Sponsor (name of entity) **Bastrop (County)** Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### Study Type

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

### Problem Area

City **N/A** County **Bastrop**

Watershed name(s) **Alum Creek - Walnut Creek**

Tributary(ies) **Alum Creek**

HUC# **12090301** Stream miles (est.) **TBD**

Drainage area: square miles, est. **1.21** or acreage, est. **772**

Social vulnerability index **0.61**

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

Other **Roadway/Crossing Improvements & Channel Improvements**



### Flood Risk Description

The existing crossings are undersized and overtop. The existing crossing is a bridge. The proposed improvements include construction of a 100 foot bridge and 1,700 feet of channel modifications. The existing main stem road is a 2-lane road with an average daily traffic count of 9,088. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk **2** Structures at risk **1** Critical facilities at risk **0**

Farm/Ranch land impacted (acres) **28** Roadway(s) impacted (miles) **0.08**

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossings and channel modifications. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **TBD**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Magnolia St** ID# **101000029**  
Sponsor (name of entity) **Brownwood (Municipality)** Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

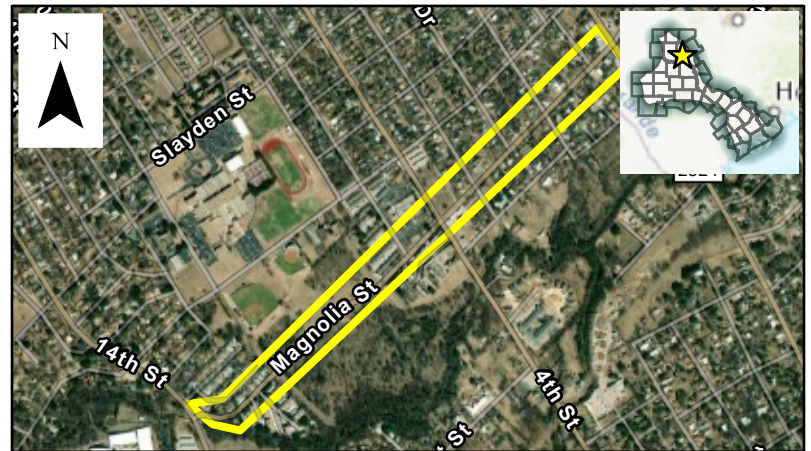
REGION 10

### Study Type

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

### Problem Area

City **Brownwood** County **Brown**  
Watershed **Delaware Creek - Pecan Bayou**  
name(s)  
Tributary(ies) **Willis Creek**  
HUC# **12090107** Stream miles (est.) **TBD**  
Drainage area: square miles, est. **0.07** or acreage, est. **48**  
Social vulnerability index **0.28**  
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other **Roadway/Crossing Improvements & Channel Improvements**



### Flood Risk Description

The existing roadside ditch and culvert are undersized resulting in localized flooding and roadway overtopping. Proposed improvements include improvements to the ditch and culvert. The existing main stem road is a 2-lane road with an average daily traffic count of 5,804. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk **273** Structures at risk **91** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **7** Roadway(s) impacted (miles) **0.66**

### 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 impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **TBD**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#

Sponsor (name of entity)  Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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)

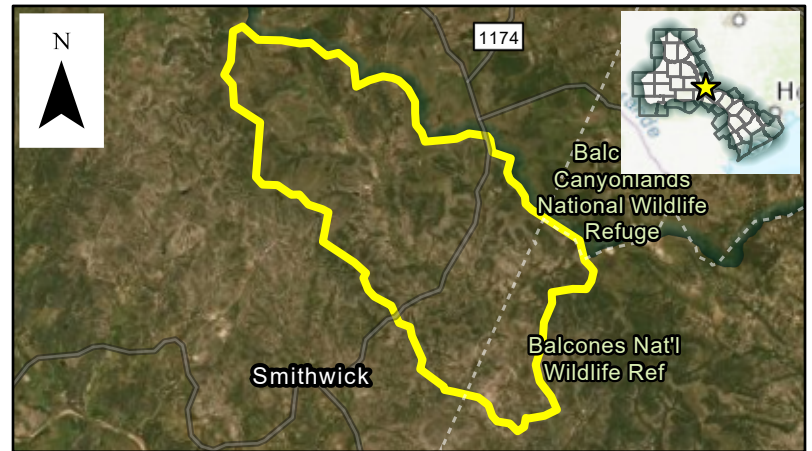
HUC#  Stream miles (est.)

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

The existing crossing is undersized and overtops. The existing crossing is a multiple (4) corrugated pipe culvert. The proposed improvements include structural flood damage repair. The existing road is a 2-lane road with an average daily traffic count of 109.

Population at risk  Structures at risk  Critical facilities at risk

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

### Scope of Study

Conduct a study to evaluate upsizing the existing crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The proposed improvements include building a multi-span bridge crossing. The existing main stem road is a 2-lane road with an average daily traffic count of 265. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title Lum Rd, Hilltop Rd, FM 2919 N ID# 101000034

Sponsor (name of entity) Kendleton (Municipality) Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### Study Type

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

### Problem Area

City Kendleton County Fort Bend

Watershed Boone Branch - San Bernard River  
name(s)

Tributary(ies) Brooks Branch

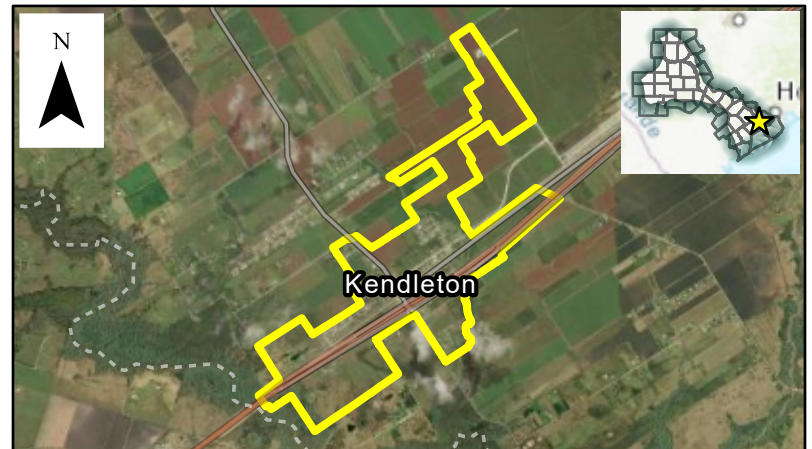
HUC# 12090401 Stream miles (est.) TBD

Drainage area: square miles, est. 1.41 or acreage, est. 905

Social vulnerability index 0.1

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

Other Roadway/Crossing Improvements



### Flood Risk Description

The existing crossings are undersized and overtop. The proposed improvements include upsizing the existing crossings. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood risk and assess potential future projects.

Population at risk 0 Structures at risk 0 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0.85

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost \$100,000 Potential funding source(s) TBD

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#

Sponsor (name of entity)  Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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)

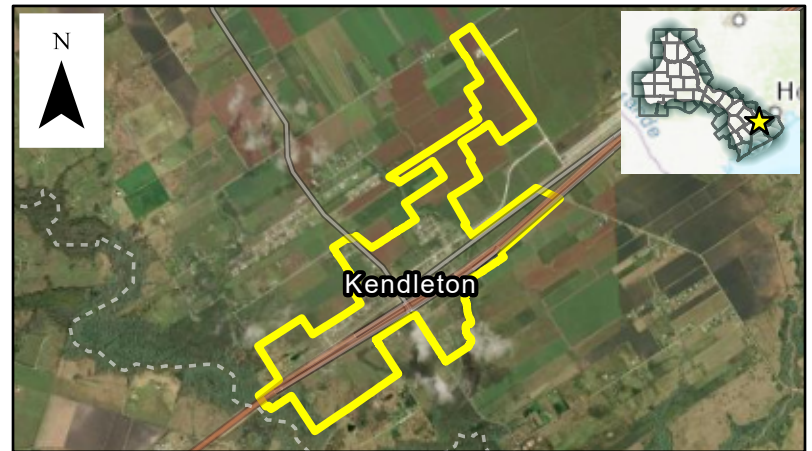
HUC#  Stream miles (est.)

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

The Sponsor has indicated the existing outlet/right-of-way stormwater infrastructure is undersized and the area is at risk of localized flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The proposed improvements include installation of culverts. The existing road is a 2-lane road with an average daily traffic count of 321. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate the proposed culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#

Sponsor (name of entity)  Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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)

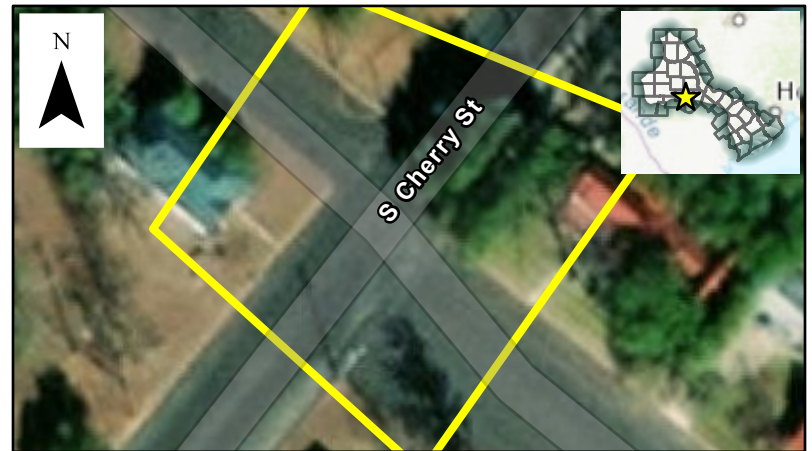
HUC#  Stream miles (est.)

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

The existing crossing is undersized and overtops. The existing crossing is a multi-box (2) crossing. The proposed improvements include channels and drop structures. The existing road is a 2-lane road with an average daily traffic count of 510. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk  Structures at risk  Critical facilities at risk

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

### Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# 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

There is a lack of conveyance from Acorn Street to Barons Creek. Stormwater runs off public right-of-way through private property and is creating local flooding issues as well as eroding the left bank of the Creek. The existing risk indicators are based on available data and will be better defined as part of the study. Study results would provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

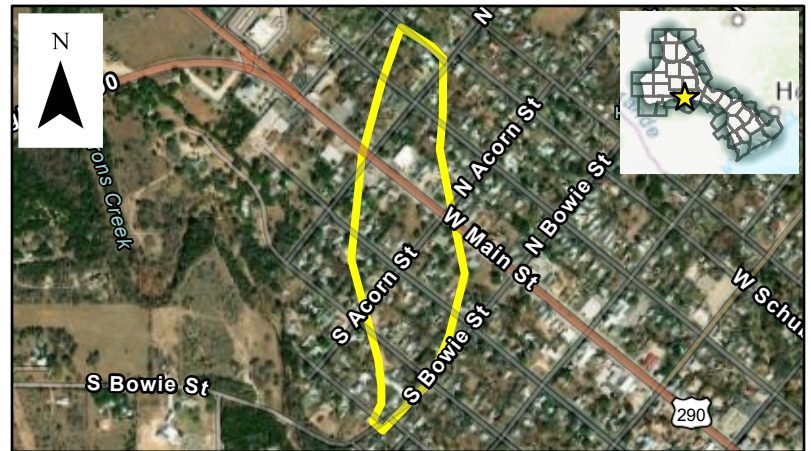
Title **Bowie & Peach Street** ID# **101000042**  
Sponsor (name of entity) **Fredericksburg (Municipality)** Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### Study Type

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

### Problem Area

City **Fredericksburg** County **Gillespie**  
Watershed **Barons Creek**  
name(s)  
Tributary(ies) **Barons Creek**  
HUC# **12090206** Stream miles (est.) **TBD**  
Drainage area: square miles, est. **0.06** or acreage, est. **36**  
Social vulnerability index **0.1**  
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other **Drainage System Improvements**



### Flood Risk Description

The storm sewer system and curb inlets need to be upgraded to include two 36" RCPs. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk **250** Structures at risk **90** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (miles) **1.08**

### 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 impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **TBD**

# 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

The existing crossing is undersized and overtops. The existing crossing is a multi-box (2) culvert. The proposed improvements include upgrades to the subject crossing. The existing road is a 2-lane road with an average daily traffic count of 117.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates 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 projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# 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

There is a lack of conveyance from Park Street to Barons Creek. Stormwater runs off public right-of-way through private property and is creating local flooding issues as well as eroding the left bank of the Creek. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Downtown Fredericksburg Storm Drainage Improvements** ID# **101000047**  
Sponsor (name of entity) **Fredericksburg (Municipality)** Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

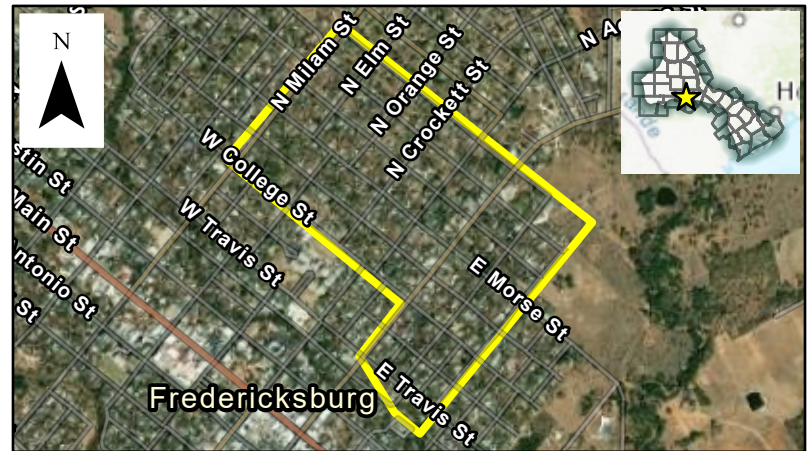
REGION 10

### Study Type

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

### Problem Area

City **Fredericksburg** County **Gillespie**  
Watershed **Headwaters Pedernales River**  
name(s)  
Tributary(ies) **Town Creek**  
HUC# **12090206** Stream miles (est.) **TBD**  
Drainage area: square miles, est. **0.38** or acreage, est. **240**  
Social vulnerability index **0.1**  
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other **Roadway/Crossing Improvements & Channel Improvements**



### Flood Risk Description

The Sponsor has indicated the existing stormwater infrastructure in the study area is undersized (less than 2-year capacity) and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk **1,450** Structures at risk **530** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **4** Roadway(s) impacted (miles) **8.90**

### 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 impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$1,500,000** Potential funding source(s) **TBD**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The Sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

There is existing erosion along the Pedernales River Tributary 2 near the City's Emergency Management System building that is threatening utilities servicing the building and nearby residential structures. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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 impacts, preparation of cost estimates 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 projects.

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Bob White Trail** ID# **101000051**

Sponsor (name of entity) **Fredericksburg (Municipality)** Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### Study Type

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

### Problem Area

City **Fredericksburg** County **Gillespie**

Watershed **Muesebach Creek - Pedernales River**  
name(s)

Tributary(ies) **Unnamed Tributary**

HUC# **12090206** Stream miles (est.) **TBD**

Drainage area: square miles, est. **0.01** or acreage, est. **4**

Social vulnerability index **0.1**

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

Other **Roadway/Crossing Improvements & Storm Drainage System**



### Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe crossing. The proposed improvements include a multi-pipe (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 265. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk **0** Structures at risk **0** Critical facilities at risk **0**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (miles) **0.10**

### Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$50,000** Potential funding source(s) **TBD**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#

Sponsor (name of entity)  Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing is a single pipe culvert. The proposed improvements include redesigning the intersection and installing FEWS. The existing road is a 2-lane road with an average daily traffic count of 265. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk  Structures at risk  Critical facilities at risk

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

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

The existing crossing is undersized and overtops. The existing crossing consists of a single pipe culvert. The proposed improvements include lowering the channel and adding drop structures and installing five 9'x5' box culverts. The existing road is a 2-lane road with an average daily traffic count of 269. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

Town Creek is eroding on the downstream side of Orange Street. Localized scour is occurring at the outfall and along this steeper section of the channel threatening existing utilities. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

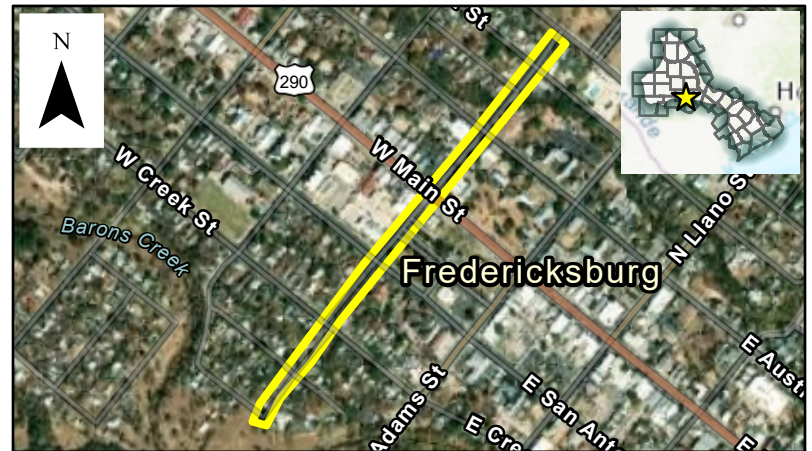
REGION 10

### 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

The storm sewer system needs to be created to capture flow with curb/drop inlets to mitigate flows. The Sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#

Sponsor (name of entity)  Commitment  Yes  No

Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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)

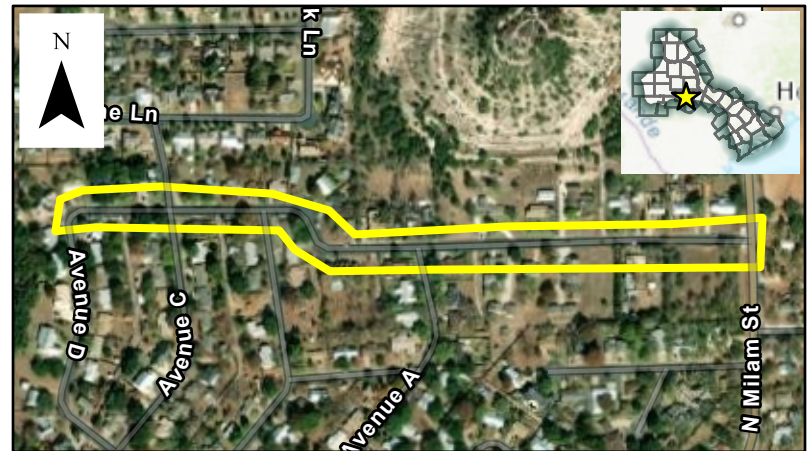
HUC#  Stream miles (est.)

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

Drainage system along Cross Mountain West is undersized and the Sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

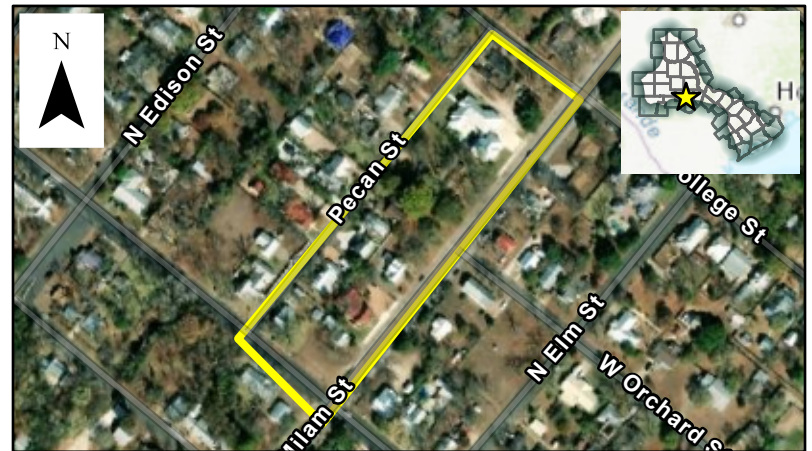
REGION 10

### 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

The Sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

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 impacts, preparation of cost estimates 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 projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

REGION 10

### 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

Dripping Springs Park Dam is a small earthen embankment dam with earthen spillway upstream of HWY 12. The dam does not appear to be regulated by the TCEQ due to size and volume and the existing flood risk is not well defined. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles. The Sponsor has identified the need to work with FEMA to evaluate and remediate the dam.

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 impacts, preparation of cost estimates 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 projects.

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

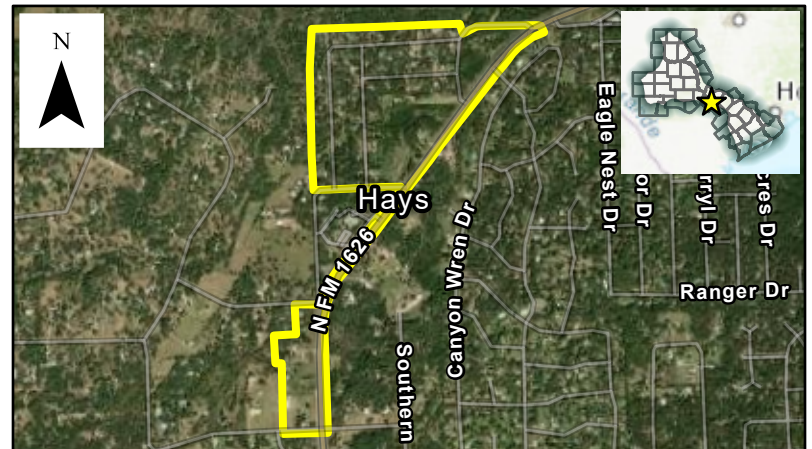
REGION 10

### 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

The tributary to Bear Creek runs through the southern and northern limits of the City and there are multiple houses adjacent to the 100-year floodplain that may be at risk of flooding. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) and may develop new floodplain maps that reflect current flood risk.

### Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

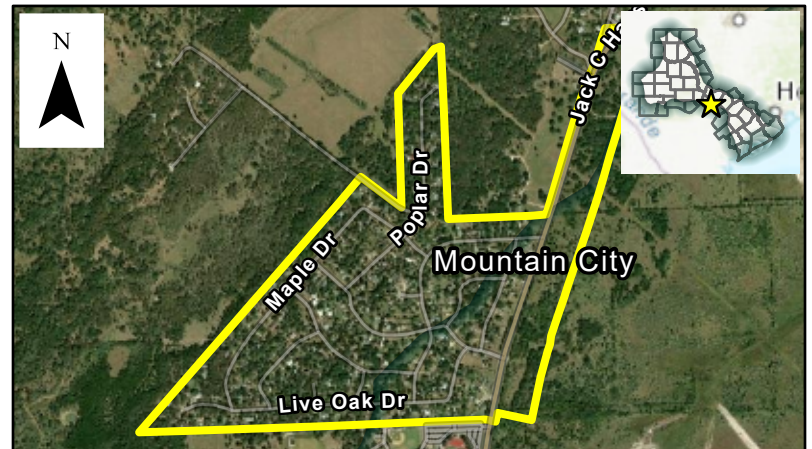
REGION 10

### 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   
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Other



### Flood Risk Description

The Sponsor's evacuation plan(s) are out of date and need to be updated to assist with emergency coordination during a flood event.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Coordinate with agencies and local governments as necessary to develop/update the evacuation plan.

### Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

### Estimated Study Cost

Cost  Potential funding source(s)