Public Meeting Notice

Region 9 – Upper Colorado Regional Flood Planning Group
November 16, 2026
10:00 AM CST

Notice is hereby given of a regular meeting of the Region 9 – Upper Colorado Regional Flood Planning Group to be held November 16, 2026, at 10:00 AM at the City Hall Annex– Board Room – 1st Floor, 301 W. Beauregard Ave., San Angelo, Texas, for the purpose of considering the following agenda items.

Phone participation is available for public and non-voting representatives by the conference call information:
Call In: (424) 672-7540 Passcode / ID: 958 659 344#

The Meeting Agenda and the Agenda Packet are posted online at: https://www.uppercoloradoflood.org

A recording of the meeting will be available to the public in accordance with the Open Meetings Act upon written request.

Members of the public may also submit Public Comment on agenda items by sending their written comments via email to astrube@crmwd.org or scottm@ucratx.org by noon November 13, 2026. The subject line must be in the following format: "Public Comment, [item number] –November 16, 2026." All emails must include your name and address. Please note all Public Comment emails relevant to posted agenda items received by the deadline will be published as part of the agenda packet prior to the meeting and are therefore public record.

Agenda:

1. Call to Order
2. Welcome
3. Public comments – limit 3 minutes per person
4. Approval of minutes from the previous meeting
5. Discussion and action from the group on voting membership for open positions
6. Sponsoring agency update from City of San Angelo
7. Texas Water Development Board (TWDB) Update
    a. Presentation by FME consultant AECOM on midpoint updates for Region 9 Upper Colorado's Task 5B FME for Small Communities projects
8. Technical consultant update for Second Cycle
9. Public comments – limit 3 minutes per person
10. Consider date and agenda items for next meeting
11. Adjourn

Additional information may be obtained from:
Allison Strube
astrube@crmwd.org
400 E. 24th Street
Big Spring, Texas 79721





Upper Colorado
Regional Flood Planning Group Meeting

November 16, 2026





Upper Colorado Regional Flood Plan

Approval of Minutes from Previous Meeting

Agenda Item No. 4

November 16, 2026

Region 9 Upper Colorado Regional Flood Planning Group

Meeting Minutes

September 9, 2026

1. Call to Order and Establishment of a Quorum

The September 9, 2026 meeting of the Region 9 Upper Colorado Regional Flood Planning Group (RFPG) was called to order by the Chair at 10:01am. Notice of the meeting was posted in accordance with the Texas Open Meetings Act. A quorum of voting members was established.

Roll Call / Attendance

Voting Members Present:

- Kenneth Dierschke
- Rick Bacon
- Shannon McMillan
- Scott McWilliams
- Allison Strube
- Morse Haynes

Non-Voting Members Present:

- John McEachern, Texas Parks and Wildlife Department
- Belle Gonzalez, Texas Water Development Board
- Shania Tinney, Texas State Soil and Water Conservation Board

Others Present:

- Jake Burton, City of San Angelo
- JW Balch, FNI Consultant
- Paula Jo Lemonds, HDR Consultant
- Lexi Blackwood, Upper Colorado River Authority
- Mio Matsumura, HDR Consultant (virtual)
- Diane Howe, HDR Consultant
- Kevin Wessels, TWDB (virtual)
- Ollie Trager, FNI Consultant (virtual)
- Claire Barber, FNI Consultant
- Aaron O'Neal, FNI Consultant
- Andrew Howe, Halff Consultant (virtual)
- Susan Roth, Consultant (virtual)
- Scott Rushing, Halff Consultant (virtual)

2. Welcome

The Chair welcomed RFPG members, representatives from the Texas Water Development Board, the sponsoring agency, technical consultants, and members of the public.

3. Public Comment

The Chair opened the floor for public comment. No public comments were received.

4. Approval of Minutes from the Previous Meeting

A motion to approve was made by Morse Haynes and seconded by Rick Bacon. The motion carried unanimously.

5. Texas Water Development Board Update & Proposition 4 Update

Belle Gonzalez gave an update to Region 9 on the topic of TWDB clarification of tasks 4C, 5B, and 5A FMEs and their classifications.

6. Sponsoring Agency Update – City of San Angelo

Jake Burton with the City of San Angelo, as sponsoring agency, stated no updates from the City.

7. Small Communities FMEs Update

Diane Howe with HDR and Claire Barber with FNI gave a presentation and update for the approach of small communities; Gaines County, Seminole, and Seagraves. JW Balch explained the gathering of data, scoring and ranking of flood areas.

Andrew Howe and Scott Rushing of Halff Construction gave an update for Howard County flood mapping and an update on coordination with the City of Big Spring and Coahoma.

Diane Howe gave an update for the City of Snyder and its flood map's ranking.

8. Updates, Discussion and Action on Approving the FMEs to be Performed by the RFPG for Task 4C

Diane Howe and Allison Strube clarified that no vote was needed for Item 8.

9. Technical Consultant Presentation on Task 7 Approach

Claire Barber gave an overview of Task 7 Flood Response Information and Activities and summarized methods of documentation and surveys of existing flood response and activities in the region. RFPG discussion was had about getting more participation from smaller areas and potential outreach through COGs.

Susan Roth gave an update about planned changes to the website as well as the potential creation of a database and the routing of questions submitted through the website. The RFPG discussed the implementation of BLE flood mapping in smaller communities FEMA, and regulatory authority of counties.

10. Technical Consultant Update for Second Cycle

Diane Howe and Mio Matsumura from HDR gave an update and provided an overview of anticipated activities for the second planning cycle and the addition of new FMXs. Discussion was had about a schedule for meetings, discussion, and approval of draft plan.

11. Public Comment

The Chair opened the floor for public comment. No public comments were received.

12. Next Meeting

The Chair expressed that Item 12, the discussion about the next meeting date, was covered in discussion of Item 10.

13. Adjourn

There being no further business. Scott McWilliams made a motion to adjourn. Rick Bacon made the second. The motion carried unanimously. The meeting was adjourned at 11:15am.

APPROVED BY:

Chair, Region 9 UCRFPG

Secretary, Region 9 UCRFPG





Upper Colorado Regional Flood Plan

Discussion and Action from the Group on Voting Membership for Open Positions

Agenda Item No. 5

November 16, 2026

REGION 9

UPPER COLORADO REGIONAL FLOOD PLANNING GROUP

NOMINATION FORM -- VOTING MEMBERSHIP

1. **DATE:** 9/22/2026
2. **NAME OF INDIVIDUAL BEING NOMINATED (NOMINEE):** Stephen Shields
3. **INTEREST GROUP FOR NOMINATION:** Public
4. **NOMINEE'S PHONE NUMBER:** 248-990-4735
5. **NOMINEE'S EMAIL ADDRESS:** shielste@gmail.com
6. **NOMINEE'S MAILING ADDRESS:** 2711 Oak Forest Dr. San Angelo TX 76904
7. **COUNTY IN WHICH THE NOMINEE RESIDES:** Tom Green
8. **COUNTY IN WHICH THE NOMINEE WORKS:** Tom Green
9. **CURRENT OCCUPATION OF NOMINEE:** Senior Instructor of Geology at Angelo State University
10. **PROFESSIONAL QUALIFICATIONS OF NOMINEE (SUMMARIZE BELOW AND/OR ATTACH RESUME):**

I currently teach Hydrogeology, GIS, Remote Sensing, and more geology courses in our geoscience department as a senior instructor of geology. Before working at ASU, I worked as an environmental planner and geologist for WSP in Honolulu HI, Houston TX, and South Bend IN.

☑ **RESUME ATTACHED.**

11. **PROVIDE OVERVIEW OF NOMINEE'S GENERAL KNOWLEDGE OF FLOOD-RELATED ISSUES AND EXPERIENCE:**

Before teaching at Angelo State, I worked as a geologists/environmental scientist/environmental planner at WSP in various locations in the US. I specialized in environmental compliance and management of stormwater systems in Hawaii. I spent three years in Hawaii in environmental planning and compliance for state and federal projects.

12. HIGHLIGHT NOMINEE'S PREVIOUS PUBLIC SERVICE AND/OR LEADERSHIP EXPERIENCE AND ROLES:

No previous experience in public service

13. DESCRIBE WHY NOMINEE IS INTERESTED IN MEMBERSHIP AND HOW THEY CAN CONTRIBUTE AS A MEMBER OF THE REGION 9 RFPG:

I am interested in representing the public interest in projects related to protecting people and property from flood related disasters. I believe my background in hydrogeology and storm water management allows me to be a useful resource who can provide valuable insight to flood mitigation.

14. PROVIDE ENDORSEMENTS (INDIVIDUALS AND/OR ORGANIZATIONS) AND ATTACH SUPPORTING INFORMATION (IF RELEVANT) FOR NOMINEE:

Recommended to apply to this position by David Loyd in 2025

15. PROVIDE TWO REFERENCES (NAME, TITLE/AFFILIATION, PHONE NUMBER) FOR NOMINEE:

Andy Wallace, former Department Chair, 325-486-6516
David Bixler, former Department Chair, 325-942-2169

Submit Nomination Form along with attachments to:

Email: shane.kelton@cosatx.us or
Mailing Address: Region 9 RFPG, c/o Shane Kelton, City of San Angelo, 301 W. Beauregard Ave., San Angelo, TX 76903
For questions, please contact Shane Kelton at (325) 657-4209 for further information.

Eligibility

In order to be eligible for voting membership on the Region 9 Upper Colorado RFPG, a person must be able to represent the interest for which a member is sought, participate in the regional flood planning process, attend monthly meetings (as needed), direct the work of the technical consultant, and abide by the Region 9 RFPG Bylaws.

Stephen Shields

Department of Physics and Geosciences
Angelo State University
ASU Station #10904
San Angelo, TX 76909-0904
Stephen.shields@angelo.edu

EDUCATION

Master of Science (M.S.) in Geospatial Sciences in Geography and Geology 2011 – 2013
Missouri State University, Springfield MO 65897
Thesis Title: "Petrographic Analysis of the Lamotte Sandstone in Missouri: Potential for Carbon Sequestration".

Graduate Certificate in Geospatial Information Science (GIS)

Bachelor of Science (B.S.) in Geology 2007 – 2011
Grand Valley State University, Allendale MI 49401

TEACHING EXPERIENCE

Angelo State University, San Angelo TX
Adjunct Instructor – Geomapping Fundamentals Spring 2019
Instructor of Geosciences Fall 2020 – Spring 2025
Senior Instructor of Geosciences Fall 2025 - Present
Courses Taught: Physical Geology Lecture and Lab (GEOL 1303 and 1103), Historical Geology Lecture and Lab (GEOL 1304 and 1104), Introduction to Hydrogeology (GEOL 3302), Geomorphology (GEOL 3304), Geomapping Fundamentals (GEOL 3371), Field Methods in Geology (GEOL 3102), Field Geology (GEOL 3600), Intro to Physical Science Lecture and Lab (PS 1315/1317 and 1115/1117), Astronomy of the Solar System (PHYS 1304), and research/special topics courses (Stormwater Management, Advanced GIS, San Angelo State Park Hydrogeology, Geologic Mapping of Karst, Special Topics in GIS, LiDAR Hazard Detection, InSAR use in Land Deformation, and Landscape Analysis – Concho River).

ITT Technical University, South Bend IN 46635 March 2014 – July 2014
Adjunct Instructor of Environmental Science and Technical Physics.
Tutored algebra, calculus, and physics
South Bend Community School Corp., South Bend IN, 46601 January 2014 – July 2014
Substitute Teacher K-12.
Missouri State University, Springfield MO 65897 August 2011 – May 2013
Graduate Teaching Assistant and Research Assistant.
Introduction to Geology Lab

UNDERGRADUATE RESEARCH

Stormwater Management ASU: Remediation Designs 2020 – 2021
Stormwater Management ASU: Mapping and Analyzing 2020 – 2021
Geology and Hydrology of San Angelo State Park 2022
Detailed Mapping of the Geologic Controls in the Central Edwards Plateau of Texas 2022 – 2023

Use of InSAR for Hazard Analysis and Prediction	2023
Landscape Analysis of the Concho River Valley	2024
Use of InSAR for Land Deformation in Permian Basin	2025
Hydrogeologic Modelling of the Lipan Aquifer using ArcGIS Pro	2026

GRANTS

2021 ASU Faculty Learning Commons Mini-Grant Recipient for GEOL 1103 Physical Geology Lab. Title: “Reworking GEOL 1103-Physical Geology Laboratory Manual” with Jessica Garza

ABSTRACTS

Hill, Cassidy, and Shields, Stephen A., 2022, Detailed mapping of the geologic controls on karst development in the central Edwards Plateau (in Geological Society of America, 2022 annual meeting; GSA connects 2022, Anonymous) Abstracts with Programs - Geological Society of America (October 2022) 54 (5)

Shields, Stephen A., and Plymate, Thomas, 2013, Petrographic analysis of the Lamotte Sandstone; potential for carbon sequestration (in Geological Society of America, North-Central Section, 47th annual meeting, Anonymous) Abstracts with Programs - Geological Society of America (April 2013) 45 (4): 1

Shields, Stephen A., and Plymate, Thomas, 2012 Petrographic analysis of the fayalite syenite of Grapevine Hills, Big Bend National Park (in Geological Society of America, 2012 annual meeting, Anonymous) Abstracts with Programs - Geological Society of America (November 2012) 44 (7): 543





Upper Colorado Regional Flood Plan

Sponsoring Agency Update from City of San Angelo

Agenda Item No. 6

November 16, 2026





Upper Colorado Regional Flood Plan

Texas Water Development Board (TWDB) Update

Agenda Item No. 7

November 16, 2026

RFPG 9 FME for Small Communities Update:

Schleicher County Drainage Master Plan

November 16th, 2026

Agenda

1. Project Overview & Brief Status
2. DMP Timeline
3. Problem Area Identification
4. Draft FMXs
5. Next Steps

Project Overview & Brief Status

1

Project Management, Outreach & Coordination

Monthly progress meetings with community & TWDB. **Public meeting after problem areas & FMXs are identified** (~50% milestone) set for 11/19/26.

2

Data Collection & Field Work

Data collection, review, and survey/field work**.** No active GLO-CDBG or TWDB-FIF studies. Publicly available data collected. **Field visit completed in October.**

3

GIS Development (Now Possibly Detailed Survey)

County-wide geodatabase with memo. Rescoped to detailed survey supporting H&H modeling. **Survey completed in October.**

4

Initial Screening and Hydrologic & Hydraulic Analysis

Hydrology plus existing & proposed conditions hydraulics for **up to 3 (now 4) alternative locations**. 2D rain-on-mesh models truncated from original BLE models. **Existing conditions modeling complete.**

5

Problem Area ID & Alternatives Analysis

3 (now 4) locations. **Problem areas determined by hot spot analysis and community feedback**. 1–2 alternatives evaluated per site, one preferred selected.

6

Stormwater Policies & Design Criteria Updates

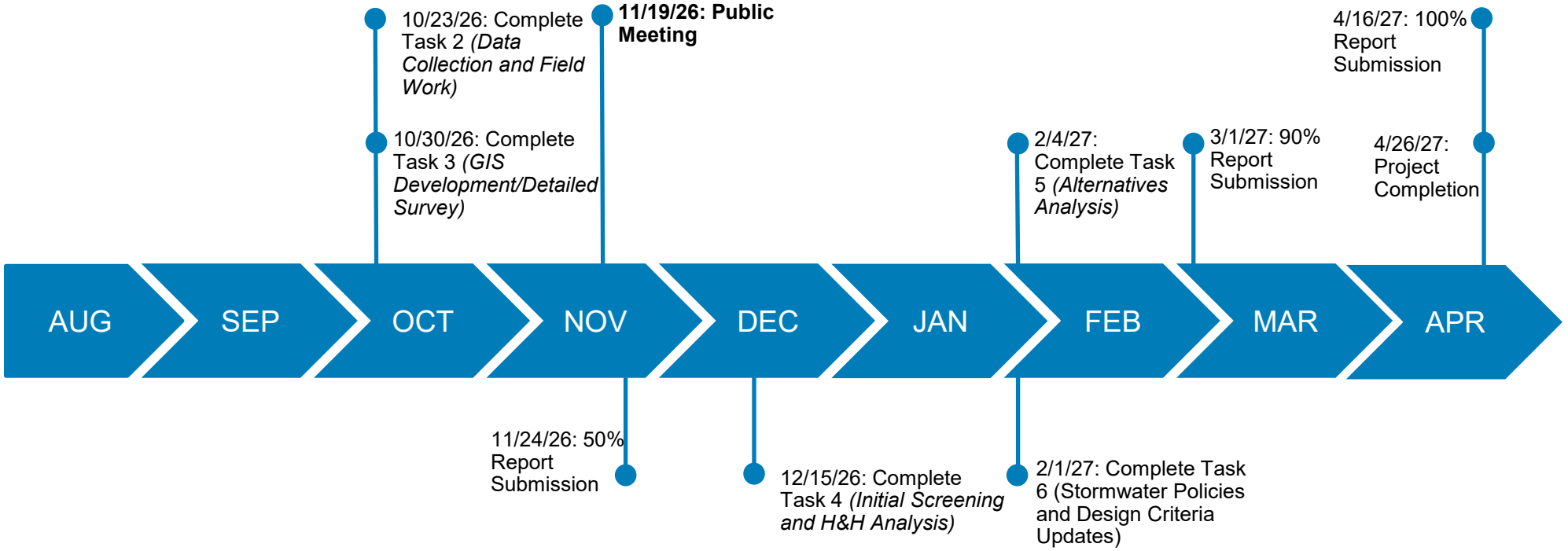
Evaluation of existing policies and design criteria, if any. Recommendations summarized in a memo. **Not started.**

7

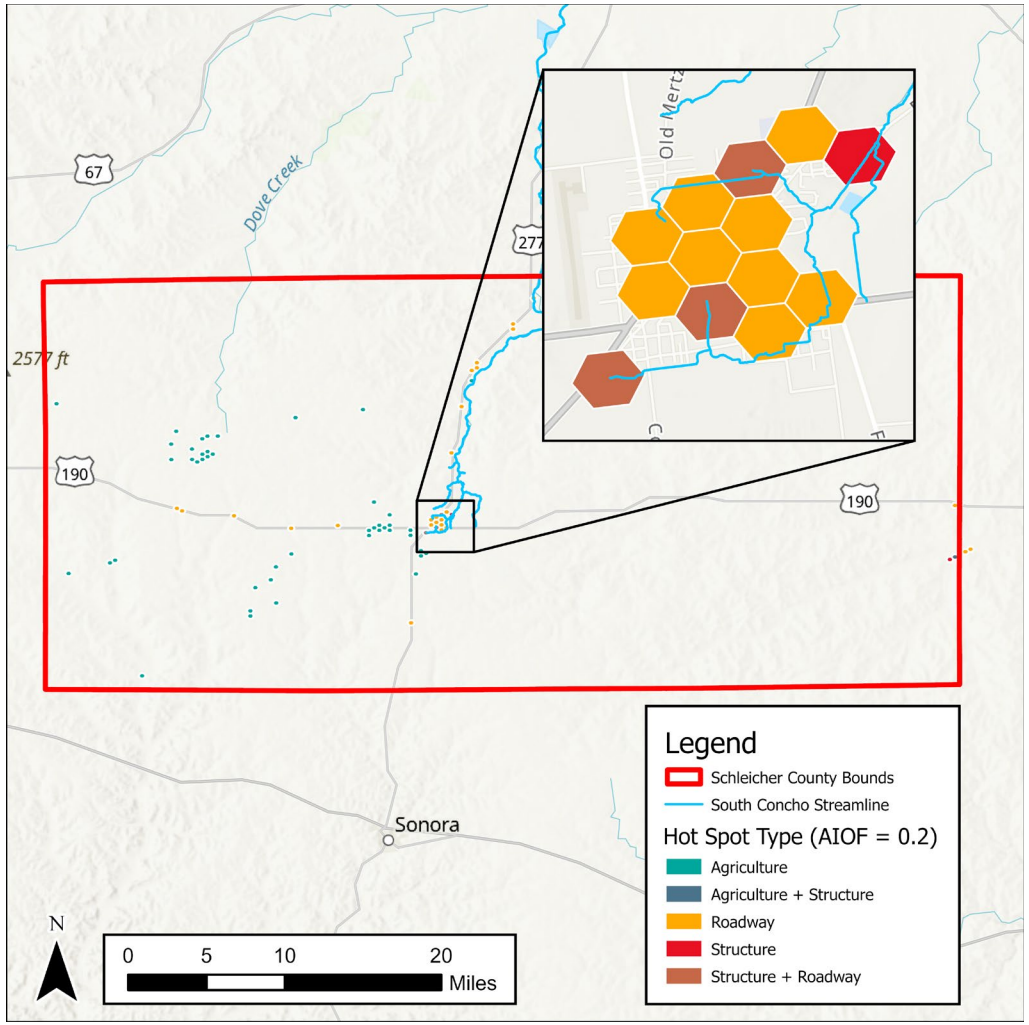
Reporting

50% Report (**preliminary FMX identification**), 90% Report (draft with BCR & cost opinion), and 100% Report (final). **50% Report in progress to be issued 11/24/26.**

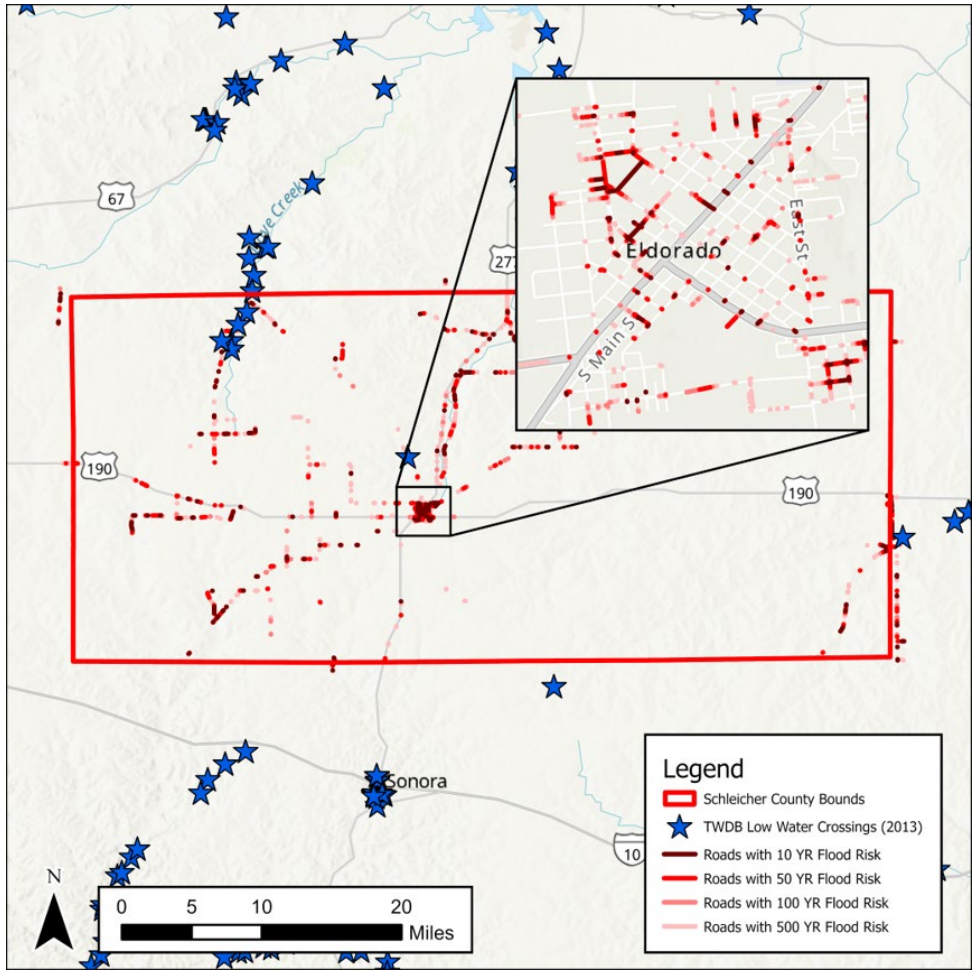
DMP Timeline



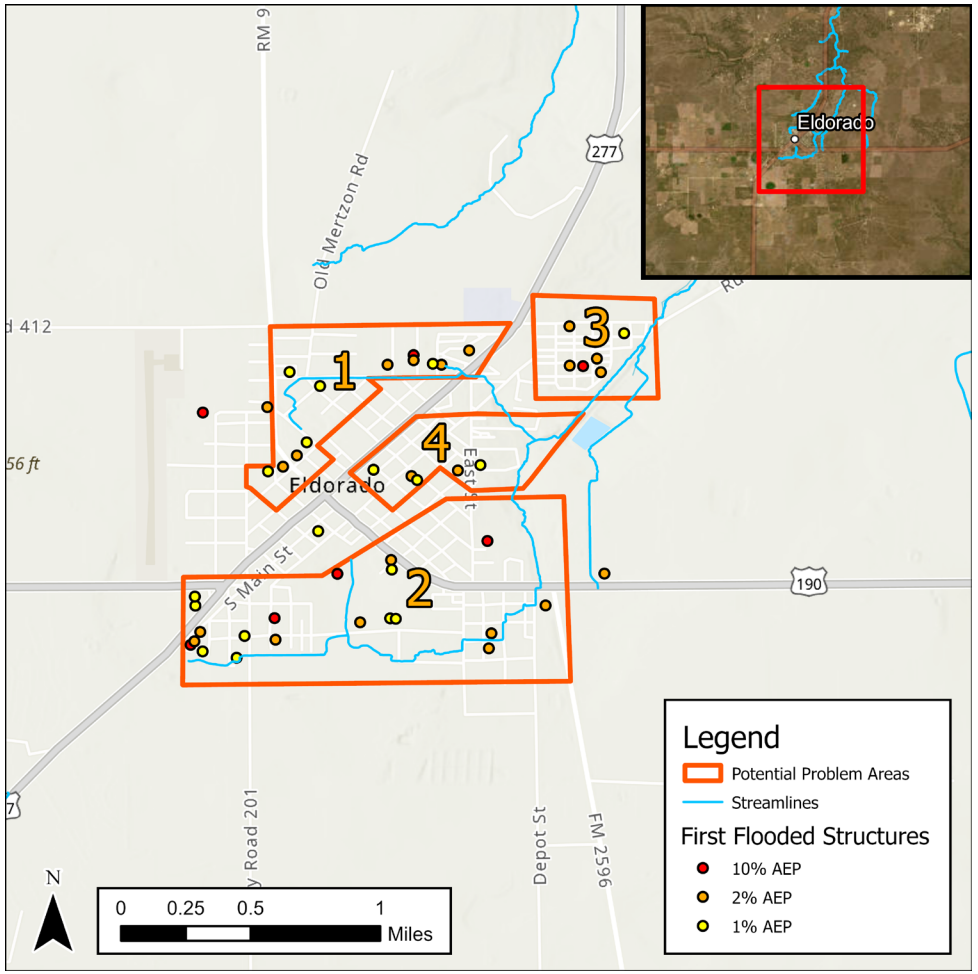
Problem Area Identification – Hot Spot Analysis (HSA) Results



Problem Area Identification –
Hot Spot Analysis (HSA) Results: Flooded Roadways



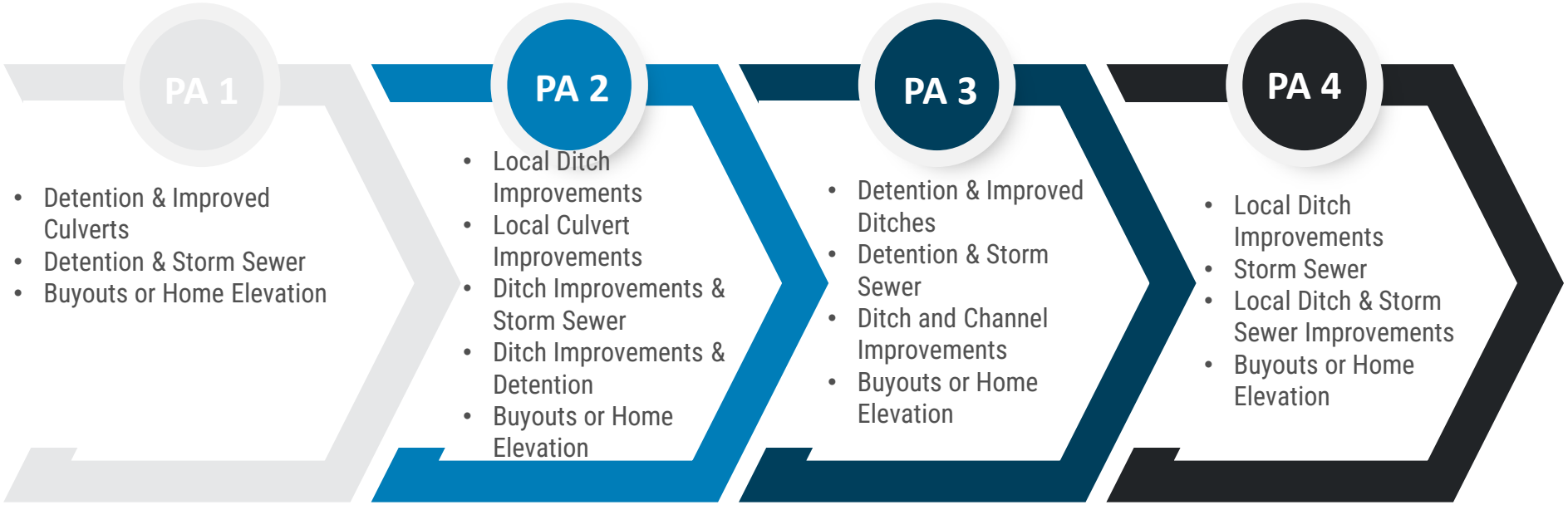
City of Eldorado – Top 4 Problem Areas



Source of Flooding:

- Problem Area 1
  - Excess overland flow to culvert ditch
  - Runoff settling in low spots, no clear drainage system
  - Flow deposited in low-lying areas with no outflow system
- Problem Area 2
  - Major low spot in playa with no outfall
  - Pooling in western playa that floods western neighborhood
  - Eastern neighborhood in direct flow path of South Concho River causing flooding
- Problem Area 3
  - Runoff settling in low spots, no clear drainage system
  - Roadside ditches (N & SE) at capacity
- Problem Area 4
  - No clear drainage system (roadside ditches, culvert crossings)
  - Runoff has to flow over roads to get downstream

Draft FMXs


PA 1
• Detention & Improved Culverts
• Detention & Storm Sewer
• Buyouts or Home Elevation
PA 2
• Local Ditch Improvements
• Local Culvert Improvements
• Ditch Improvements & Storm Sewer
• Ditch Improvements & Detention
• Buyouts or Home Elevation
PA 3
• Detention & Improved Ditches
• Detention & Storm Sewer
• Ditch and Channel Improvements
• Buyouts or Home Elevation
PA 4
• Local Ditch Improvements
• Storm Sewer
• Local Ditch & Storm Sewer Improvements
• Buyouts or Home Elevation

Next Steps

- Public Meeting
  - Prepare for and execute meeting on 11/19/26 presenting information discussed during this meeting with TWDB & Schleicher County
- 50% Memo Deliverable
  - Finalize and issue report including discussions on existing-conditions H&H modeling, problem area identification, and draft FMXs
- With Project-Conditions Modeling
  - Develop models for alternatives advancing after initial screening/prioritization

RFPG 9 FME for Small Communities Update: City of Lamesa Drainage Master Plan

November 16th, 2026

Agenda

1. Project Overview & Brief Status
2. DMP Timeline
3. Problem Area Identification
4. Draft FMXs
5. Next Steps

Project Overview & Brief Status

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Hydrology plus existing & proposed conditions hydraulics for **up to 3 (now 4) alternative locations**. 2D rain-on-mesh models truncated from original BLE models. **Existing conditions modeling complete.**

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Problem Area ID & Alternatives Analysis

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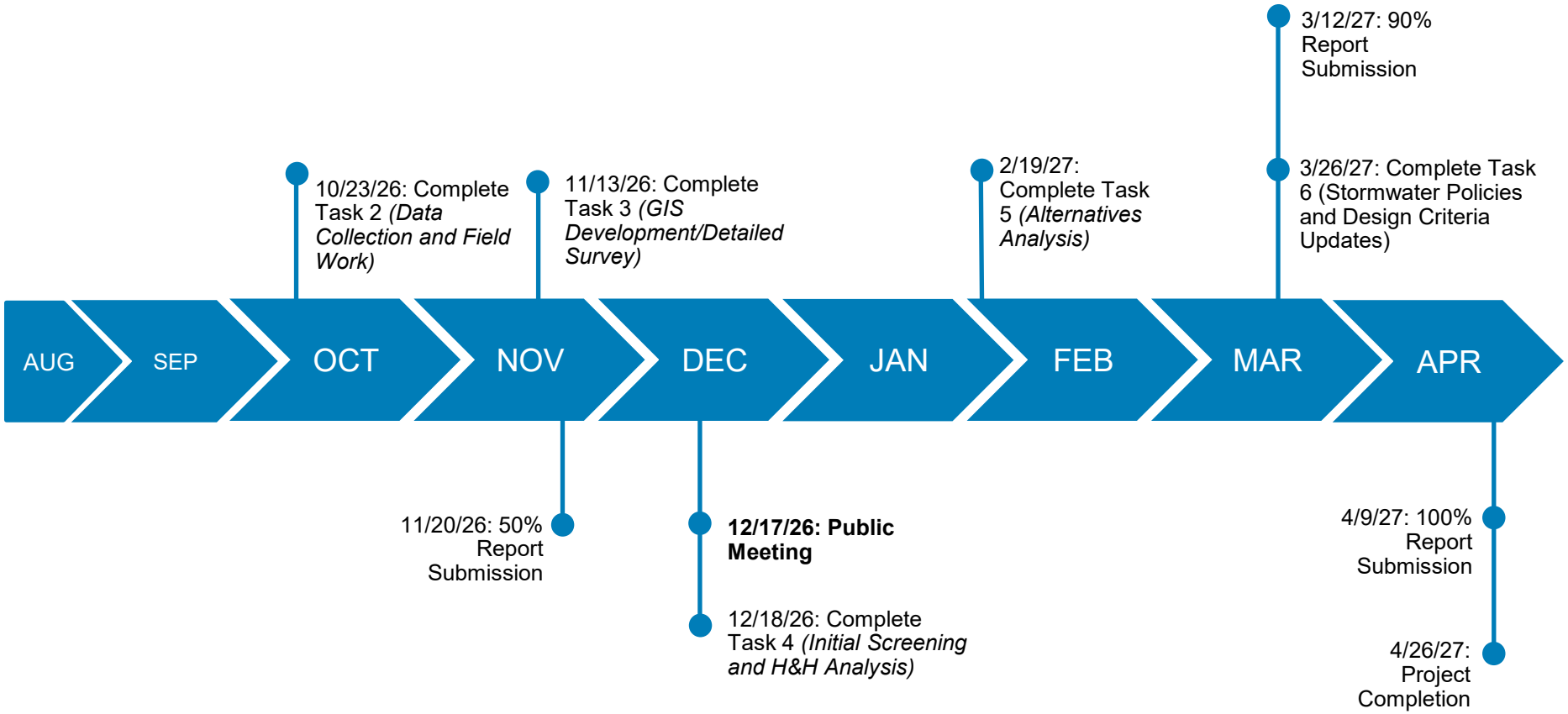
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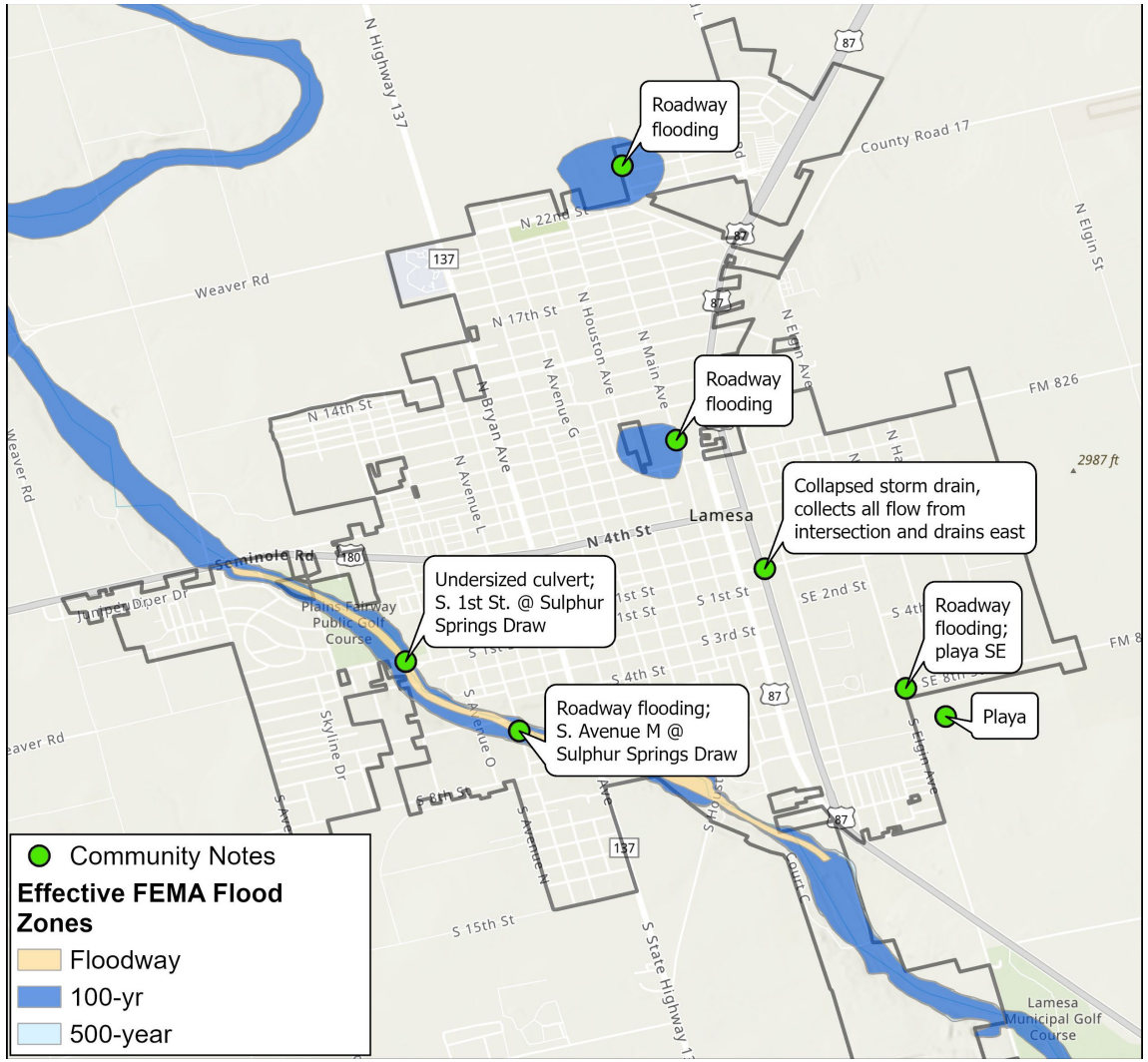
Reporting

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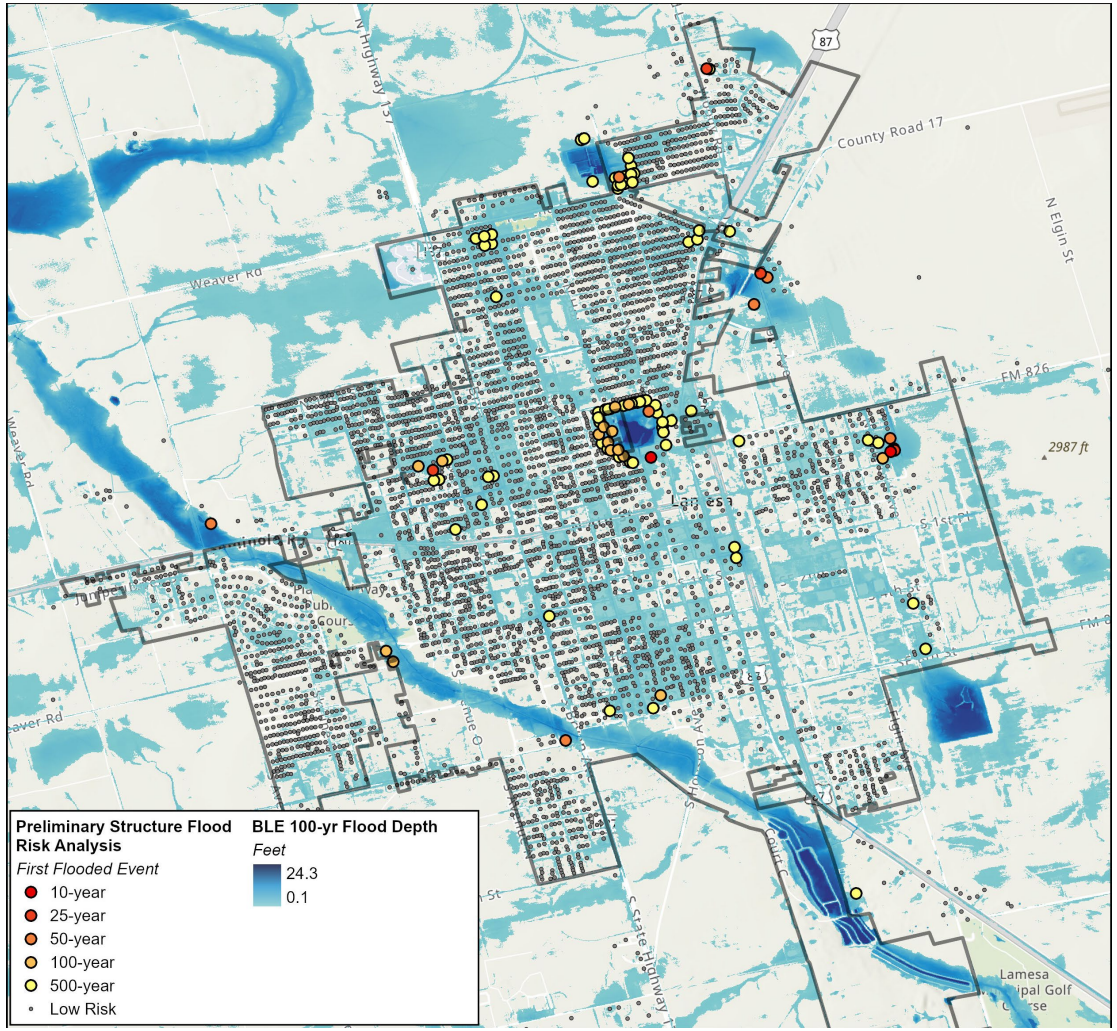
DMP Timeline



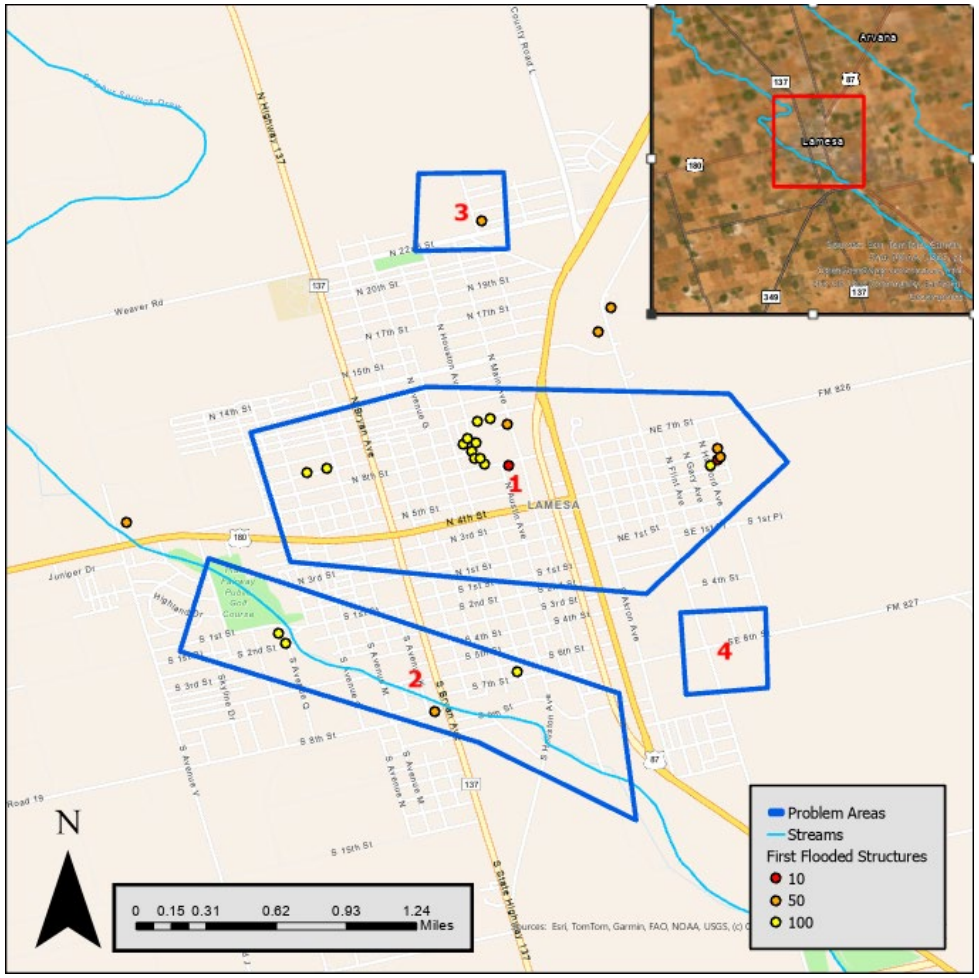
Problem Area Identification – Community Identified Locations



Problem Area Identification – Preliminary Flooded Structure Analysis



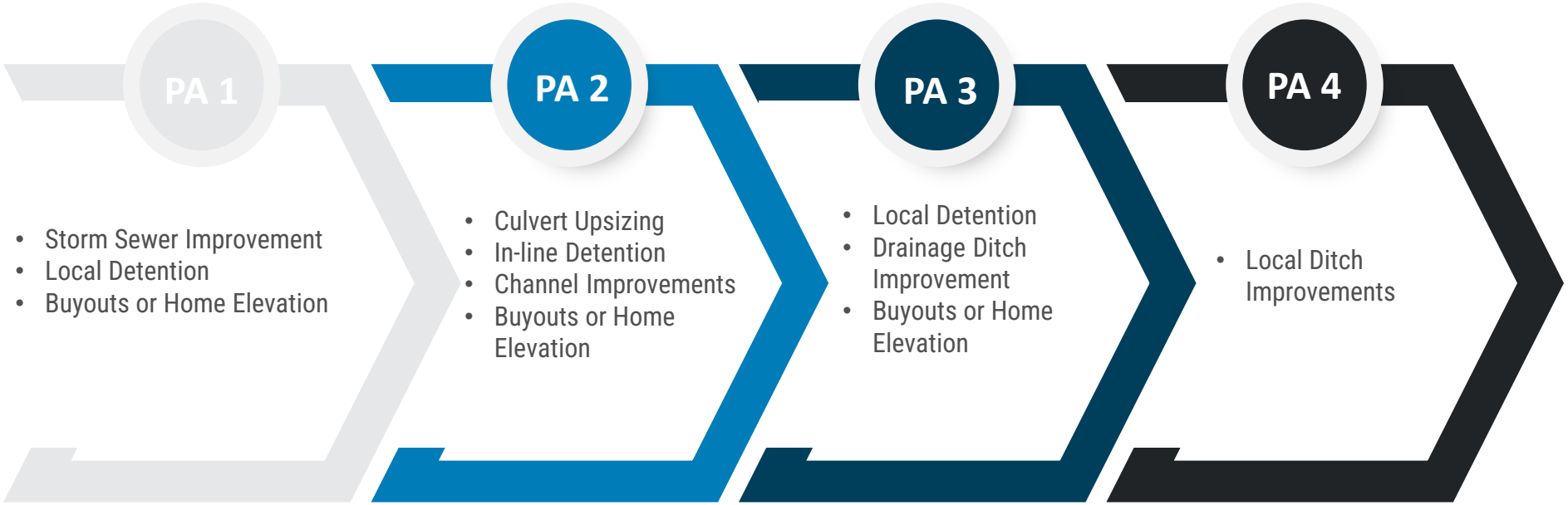
City of Lamesa – Top 4 Problem Areas



Source of Flooding:

- Problem Area 1
  - Area with collapsed storm sewer inlets
  - Highly developed with little to no storm drain infrastructure
- Problem Area 2
  - High volume of storm water from upstream Sulfur Springs causing overtopping of road crossings
- Problem Area 3
  - Runoff from eastern neighborhood with no clear storm runoff outfall
- Problem Area 4
  - Local flooding at major road intersection
  - Low spot in terrain within farmlands

Draft FMXs


PA 1
• Storm Sewer Improvement
• Local Detention
• Buyouts or Home Elevation
PA 2
• Culvert Upsizing
• In-line Detention
• Channel Improvements
• Buyouts or Home Elevation
PA 3
• Local Detention
• Drainage Ditch Improvement
• Buyouts or Home Elevation
PA 4
• Local Ditch Improvements

Next Steps

- 50% Memo Deliverable
  - Finalize and issue report including discussions on existing-conditions H&H modeling, problem area identification, and draft FMXs
- Public Meeting
  - Prepare for and execute meeting on 12/17/26 presenting information discussed during this meeting with TWDB & City of Lamesa
- With Project-Conditions Modeling
  - Develop models for alternatives advancing after initial screening/prioritization





Upper Colorado Regional Flood Plan

Technical Consultant Update for Second Cycle

Agenda Item No. 8

November 16, 2026

Task 4A Update

Identification and Evaluation of Potential FMXs

4A - Evaluation of Potentially Feasible FMXs

FME Name	Description	County	Sponsor	Emergency Need	Estimated Study Cost
Tom Green County Culbert Resilience Planning and Design	Tom Green County Culvert Resilience Planning and Design	Tom Green	Tom Green County	No	$ 1,500,000
Robert Lee (Coke Co) Mountain Creek Dam Eval	Robert Lee Mounty Creek Dam Evaluation for Rehab or removal	Coke	Robert Lee	Yes	
City of Winters DMP	City of Winters DMP and identification of flooding solutions	Runnels	Winters	No	$ 400,000

FMP Name	Description	County	Sponsor	Emergency Need (Y/N)	Estimated Project Cost ($)
City of Big Spring (Howard Co) Spillway	Beals Creek Spillway dredging below One Mile Lake	Howard	City of Big Spring	No	
Midland County Upper South Draw Caliche Pit Connections Ph 2	Construct channel and reshape overflow with minor grading downstream. Acquire easements on pits and channel and lower the existing pipeline	Midland	Midland County	No	$ 5,404,125
Midland County Channel across S. Hwy 349 Improvements	Construct channel and box culvert across S. Hwy 349	Midland	Midland County	No	$ 1,738,028
Midland County West County Road 120 Rebuild	Reconstruction roadway wider with ditches for more capacity. Purchase adjacent land for storage.	Midland	Midland County	No	$ 2,003,539

FMS Name	Description	County	Sponsor	Emergency Need (Y/N)	Estimated Strategy Cost ($)
Tom Green County Brush and Debris Removal	Tom Green County Brush and Debris Removal	Tom Green	Tom Green County	No	$ 250,000

Task 4C Update

Performance of FMEs

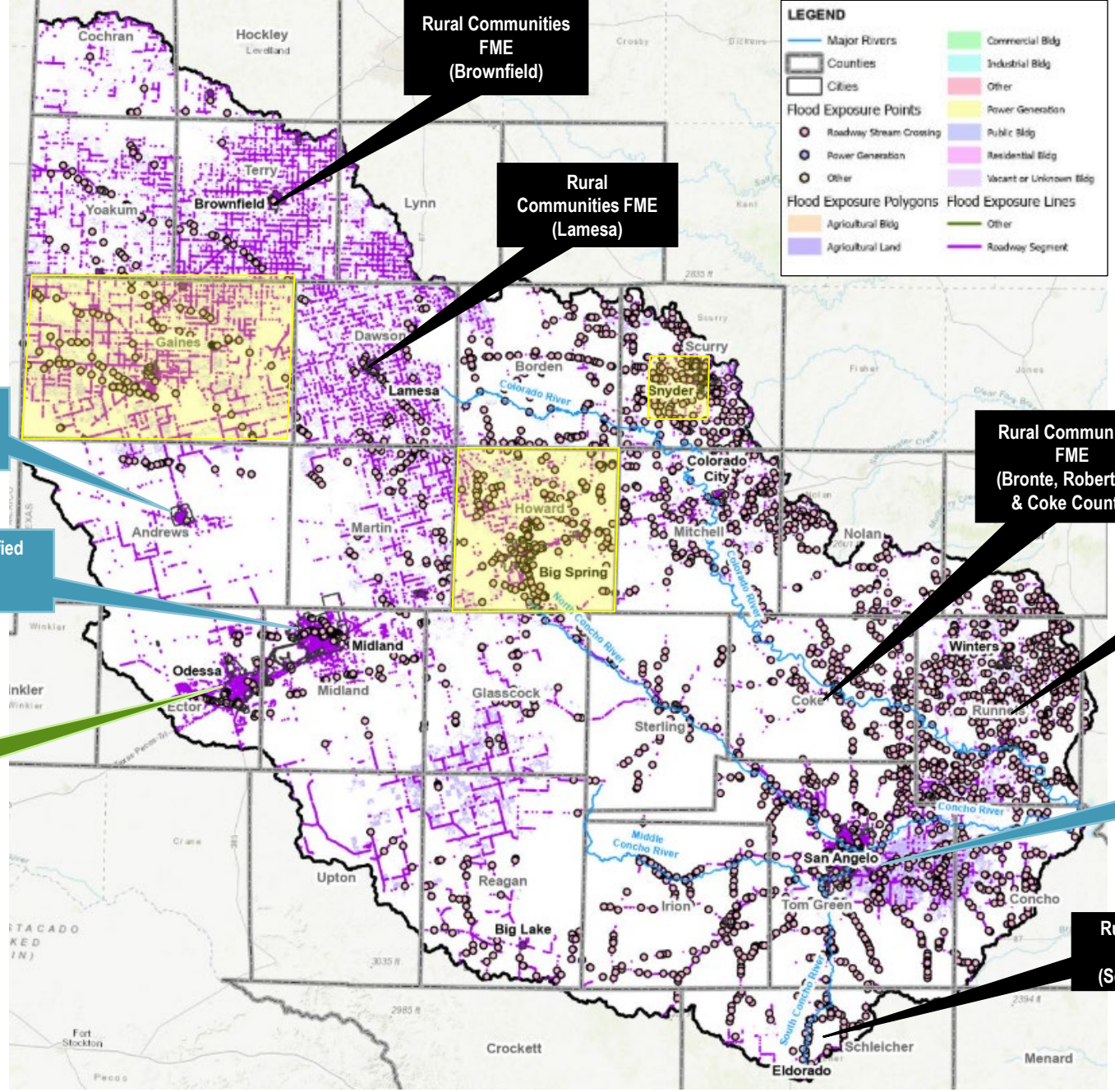
Task 4C – FMEs to be Performed by the RFPG

- Perform a subset of the potential FMEs identified in Task 4A.
- Identify and evaluate additional FMPs that could be recommended under Task 5A.

Howard County	Gaines County	City of Snyder (Scurry County)

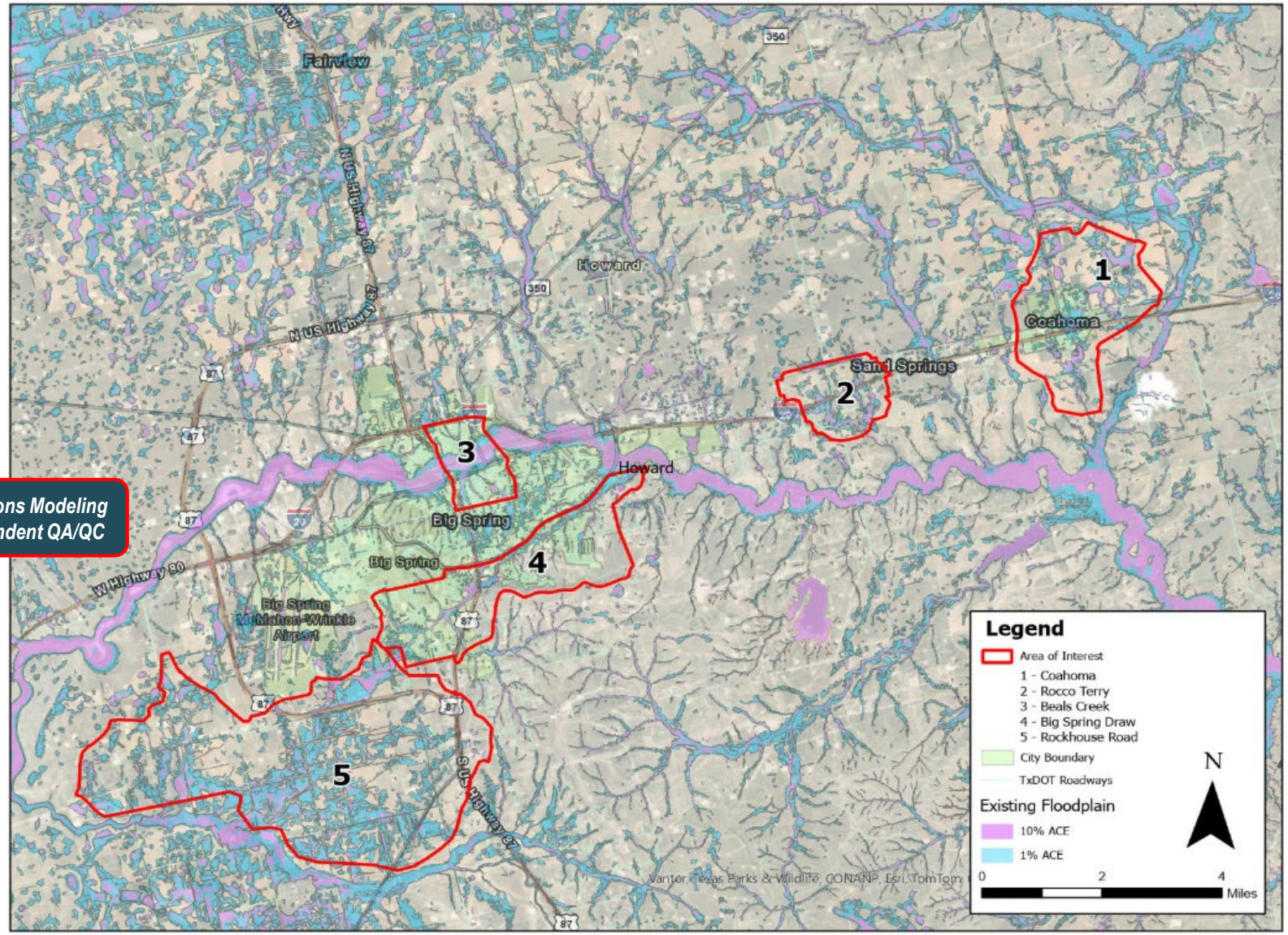
• Drainage Master Plan
  • City of Big Spring
  • City of Coahoma
	• Drainage Master Plan
	  • City of Seminole
	  • City of Seagraves
		• Drainage Master Plan

Cycle 2 – Recommended FMEs to be Performed by the RFPG

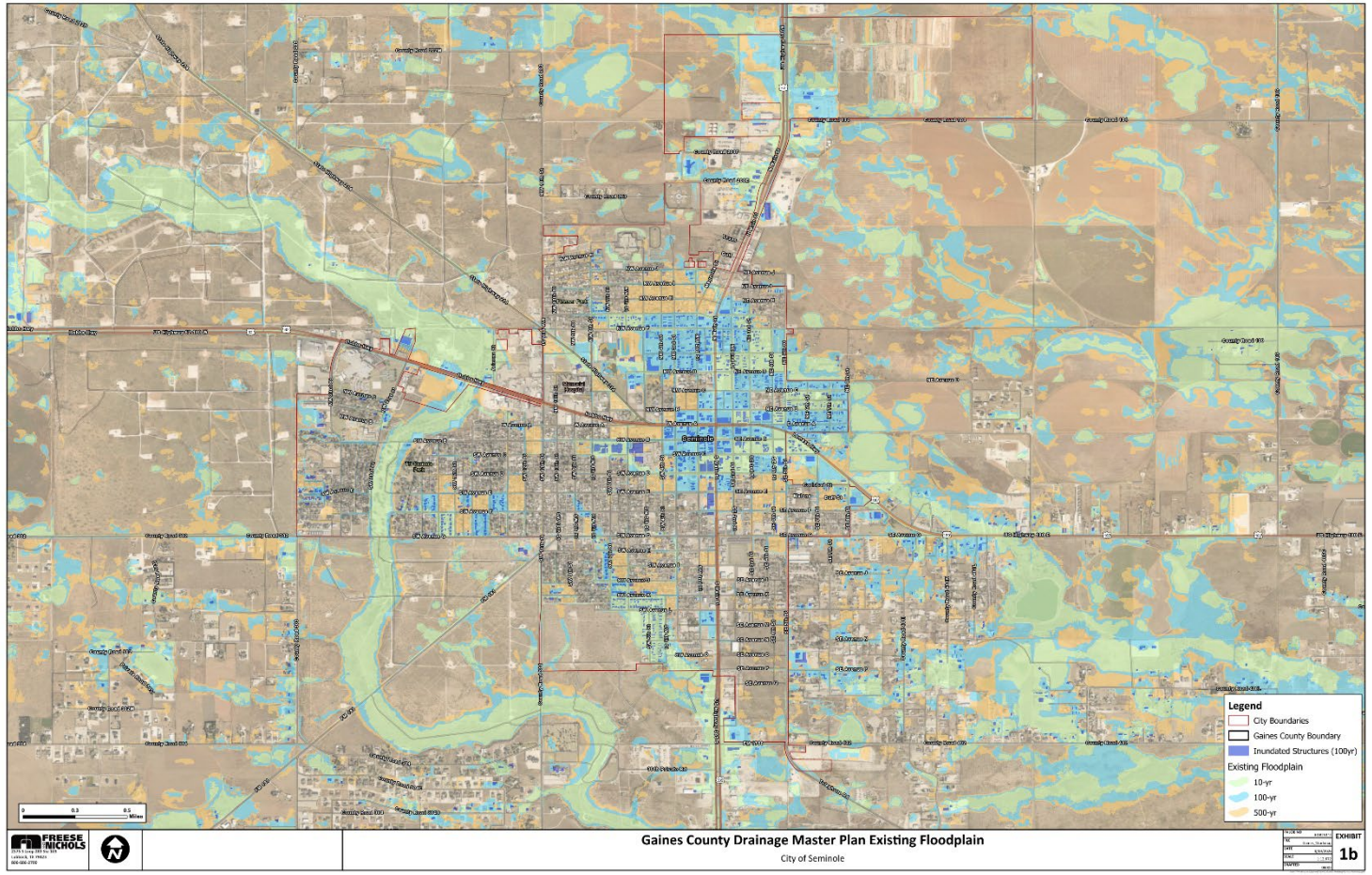


Task 4C: Howard County Drainage Master Plan

- Kickoff Meetings & Technical Workshop w/ Howard County
- Review of BLE Models & Existing Flood Risk to Draft AOIs
- Comparisons & Screenings of County Concerns v. Best Available Data
- Final Identification of AOIs & Existing Conditions Modeling
- *Existing Conditions Modeling Pending Independent QA/QC*
- FMPs Kickoff Meeting & Technical Workshop w/ Howard County
- Alternatives Analysis & FMP Identification
- Delivery of DMP & Recommended FMPs to Howard County & RFPG



Task 4C:Gaines County Drainage Master Plan



Existing Flood Risk Map for AOI Identification

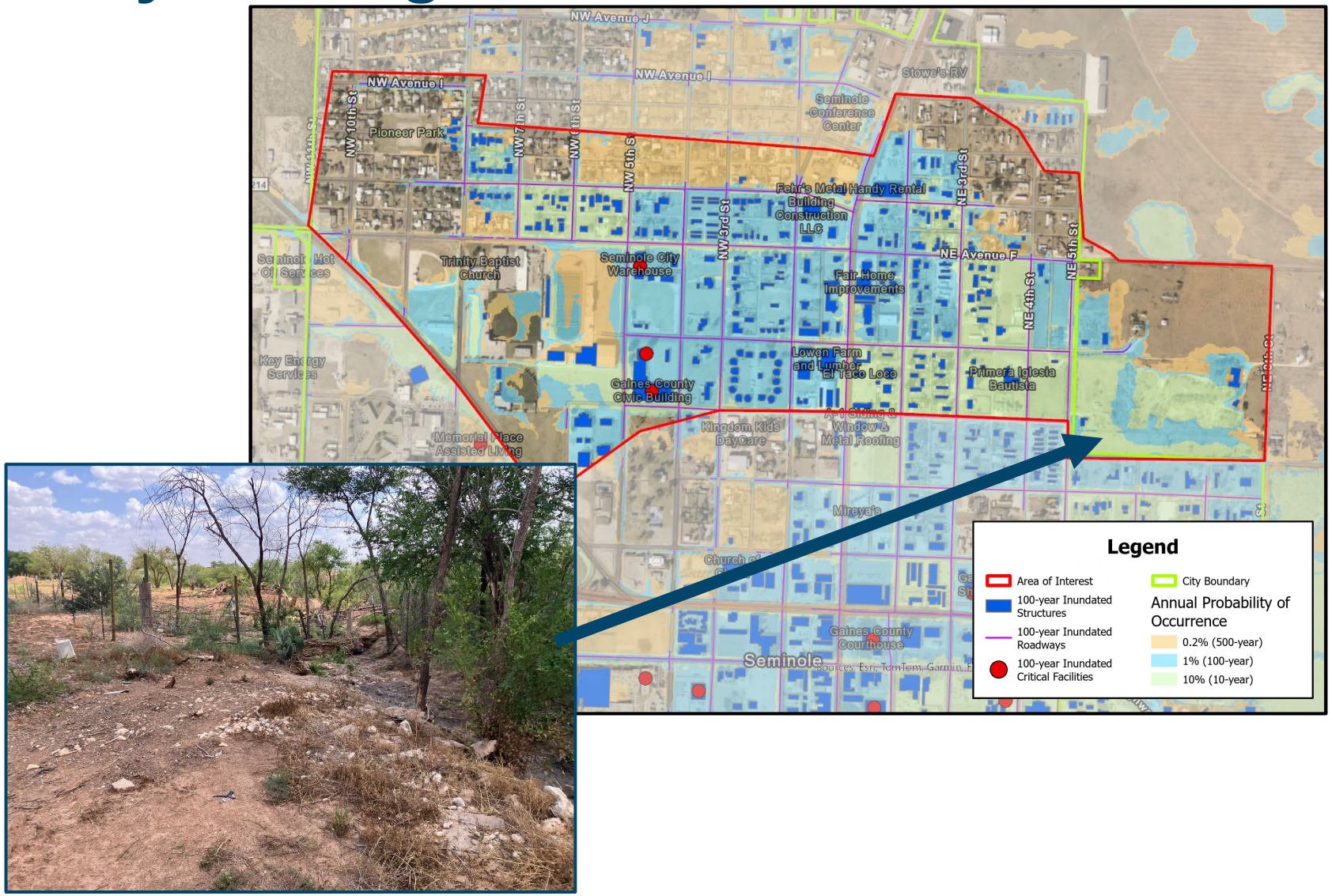
- Drainage Master Plan Kickoff ✓
- Identify Areas of Interest (AOIs) ✓
- Screening Assessment: Score & Rank AOIs ✓
- Select priority AOIs for detailed analysis ✓
- Existing Conditions Modeling ○
- Alternatives Analysis to identify FMPs ◌
- Planning Level OPCC & BCA ◌

✓ = Complete ○ = In Progress ◌ = Upcoming

Task 4C:Gaines County Drainage Master Plan

City of Seminole – Caliche Pit

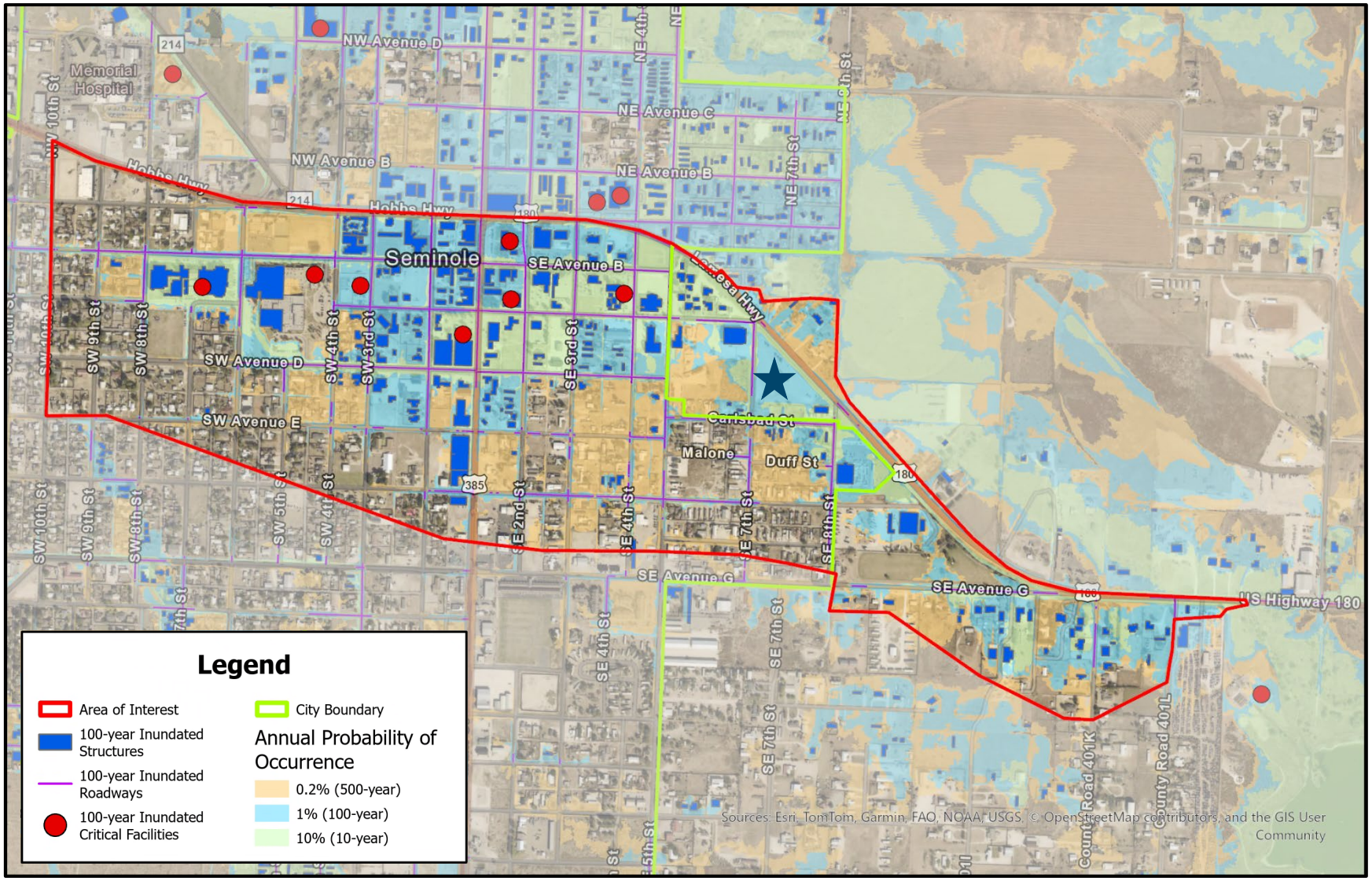
- **Issues**
  - Neighborhood flooding draining to caliche pit east of City
- **Infrastructure**
  - 284 structures potentially at risk of flooding in 100-yr
    - 3 Critical Facilities
  - ~6.5 mi of inundated roadway
- **Potential Alternatives**
  - Evaluate addition of storm drain



Task 4C:Gaines County Drainage Master Plan

City of Seminole – HWY 180

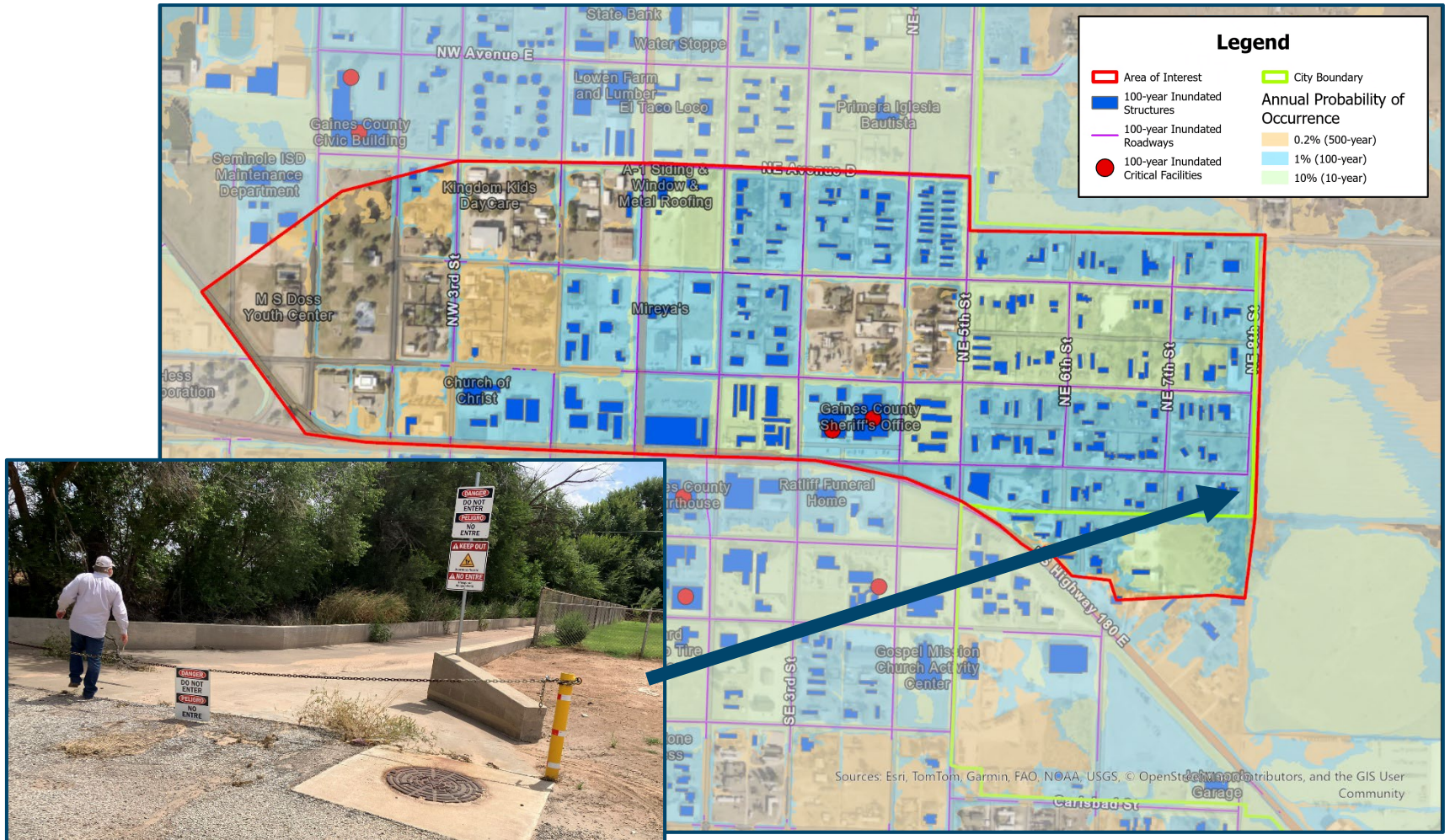
- **Issues**
  - Street and structural flooding along Lamesa Hwy (Hwy 180)
  - Roadway often inundated
- **Infrastructure**
  - 213 structures potentially at risk of flooding in 100-yr
    - 7 Critical Facilities
  - ~7.6 mi of inundated roadway
- **Potential Alternatives**
  - Evaluate upsizing bar ditch along Hwy 180 & addition of storm drain



Task 4C:Gaines County Drainage Master Plan

City of Seminole – Avenue A

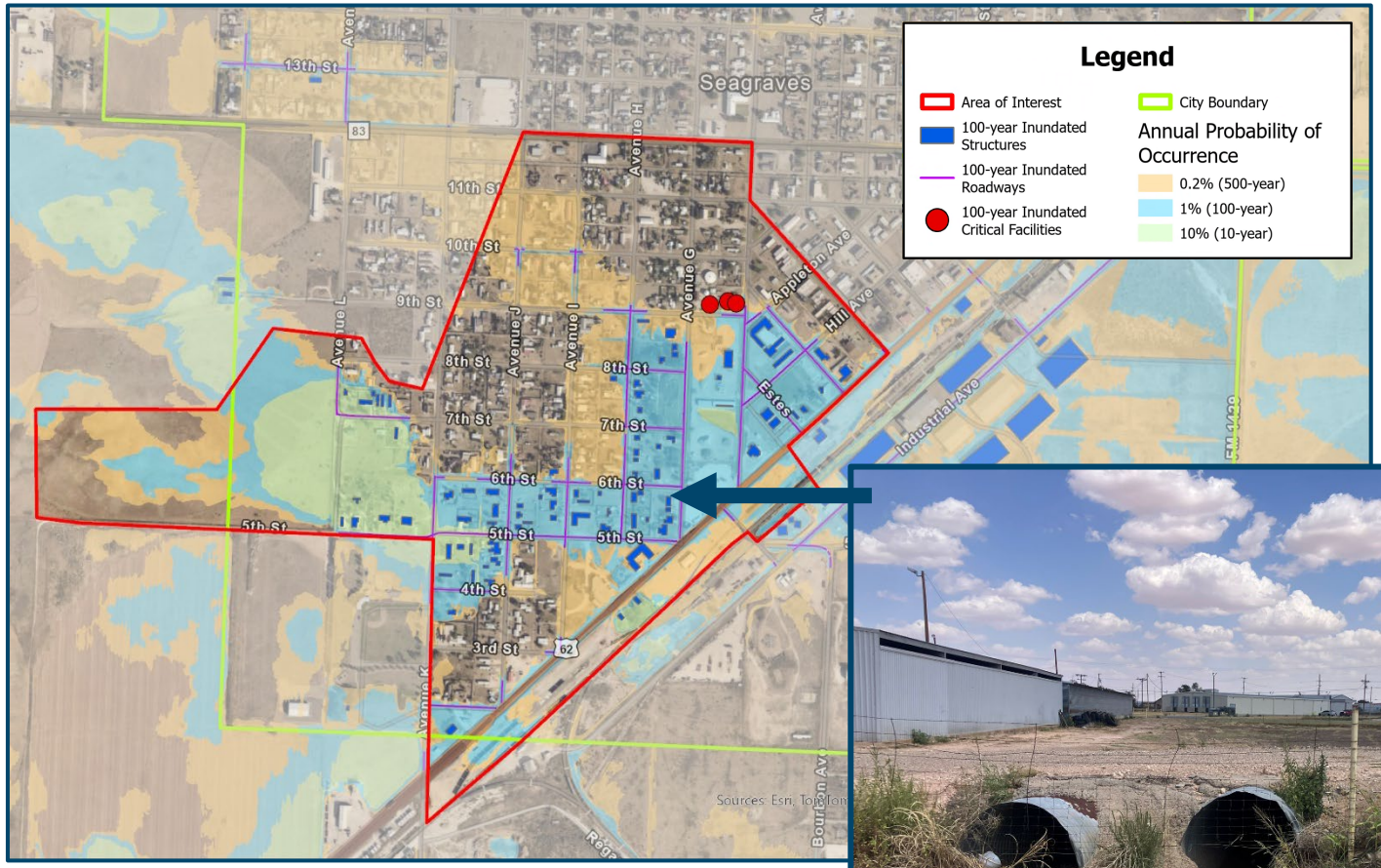
- **Issues**
  - Neighborhood flooding draining to flume at Avenue A
- **Infrastructure**
  - 213 structures potentially at risk of flooding in 100-yr
    - 2 Critical Facilities
  - ~5 mi of inundated roadway
- **Potential Alternatives**
  - Evaluate addition of storm drain & upsizing flume/channel downstream



Task 4C:Gaines County Drainage Master Plan

City of Seagraves – Frog Lake

- **Issues**
  - Undersized infrastructure at Frog Lake
- **Infrastructure**
  - 85 structures potentially at risk of flooding in 100-yr
    - 3 Critical Facilities
  - ~2.9 mi of inundated roadway
- **Potential Alternatives**
  - Evaluate upsizing storm drain infrastructure

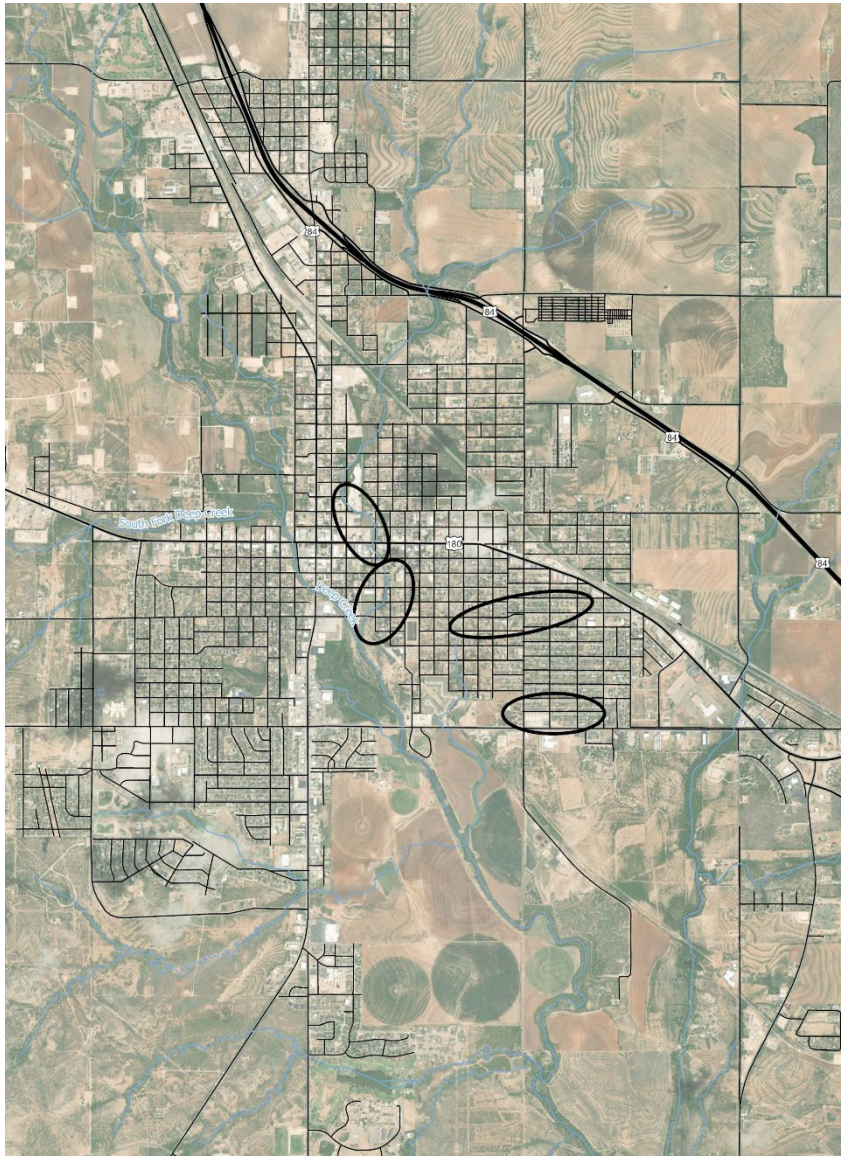




Task 4C: City of Snyder Drainage Master Plan

- Kick-off Meeting with City of Snyder
- Perform Screening Analysis using BLE, SDE, and Effective FIRMs
- Coordination meeting with City to prioritize areas for possible FMPs
- City of Snyder concurrence on selected Areas of Mitigation (AOIs)
- Begin DMP and alternative analysis for four possible FMP solutions
- Deliver DMP and possible FMPs to City of Snyder

We are here.



Task 7 Update

Flood Response Information and Activities

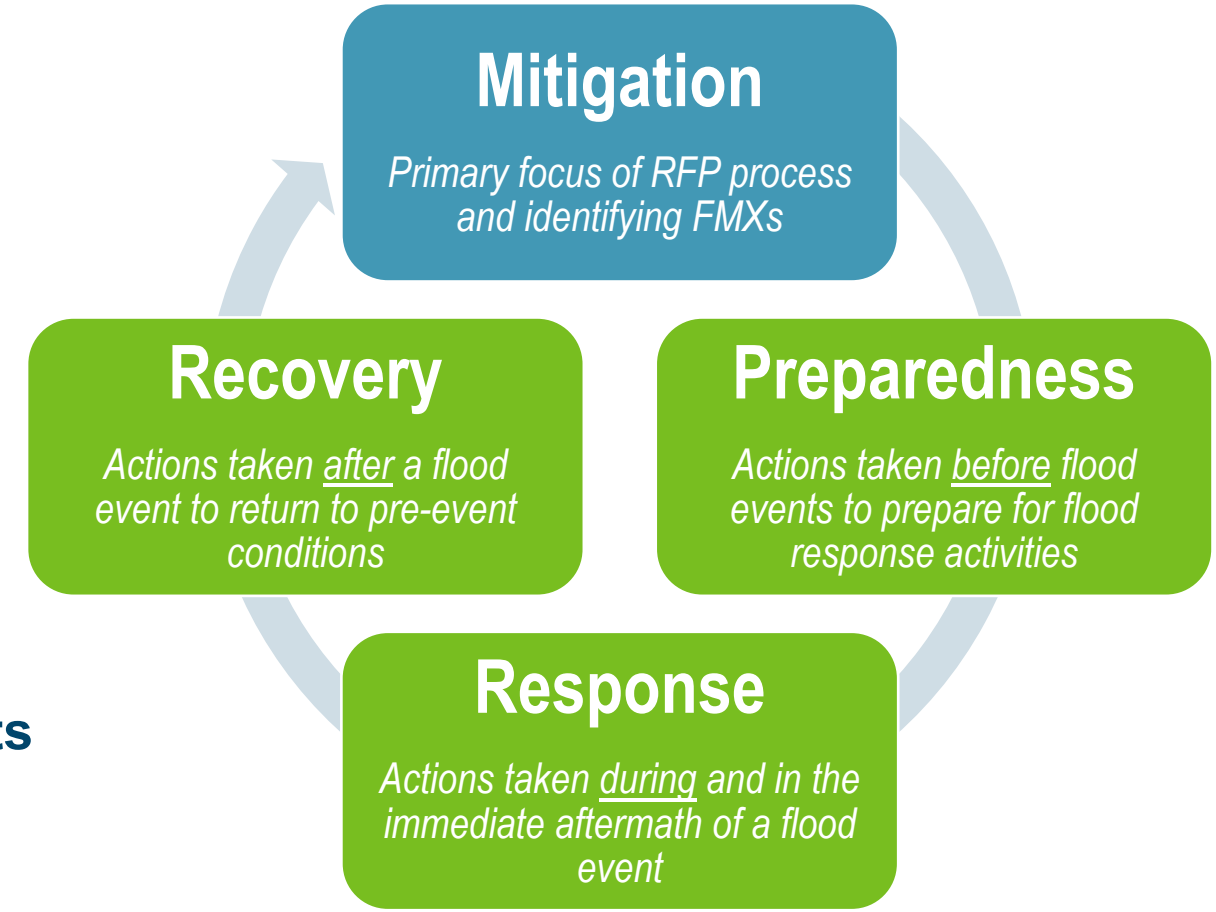
Task 7: Flood Response Information & Activities

Task Objectives:

- To document and summarize **existing** flood preparation, response, and recovery activities throughout the region
- To provide regional context for Chapter 8 (*Administrative, Regulatory, and Legislative Recommendations*)

Approach:

- **Cycle 2 outreach & community survey**
- **Update Chapter text from Cycle 1 (2023) efforts**
- Coordinate findings for Chapter 8 update



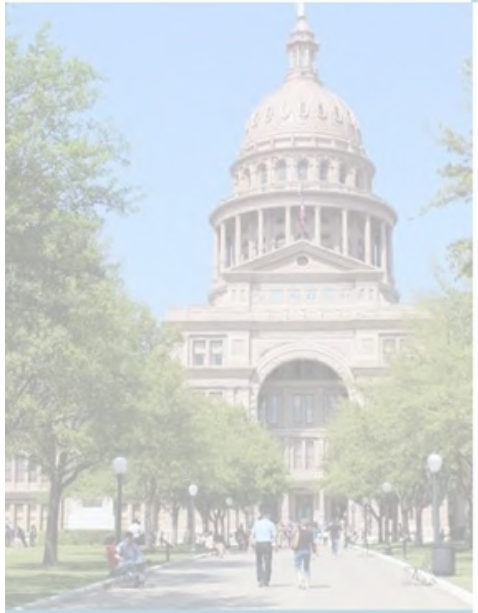
Task 8 Update

Administrative, Regulatory, and Legislative Recommendations

Task 8: Administrative, Regulatory, Legislative, & Flood Planning Recommendations

- *RFPGs Adoption of Recommendations on Policy Issues Related to Floodplain Management & Flood Mitigation Planning & Implementation (TWDB 2023 Regional Flood Plan – Region 9)*

- Previous Legislative Recommendations (Cycle 1)
  - Direct State Funding to Counties to Maintain Drainage & Stormwater Infrastructure in Unincorporated Areas
  - Expand Eligibility For and Use of Funding for Stormwater & Flood Mitigation Solutions
  - Provide Additional Grant Funding to Enable to Continued Function of RFPGs Between Planning Cycles
  - Grant Counties Additional Authority to Regulate Land Use in Unincorporated Flood-Prone Areas



8

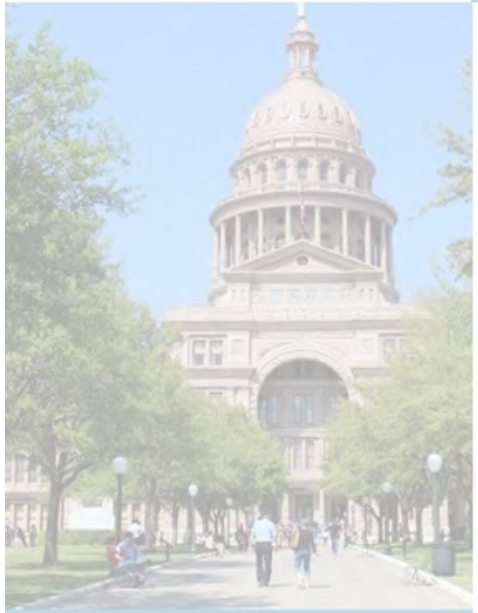
Administrative, Regulatory, and Legislative Recommendations

[31 TAC §361.43]

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Task 8: Administrative, Regulatory, Legislative, & Flood Planning Recommendations

- Previous Regulatory & Administrative Recommendations (Cycle 1)
  - Develop Resources & Educational Tools to Establish & Enforce Higher Development Standards
  - Provide Financial or Technical Assistance to Smaller/Rural Jurisdictions
  - Address Concerns of “Takings” Regarding Floodplain Development, Land Use, & Zoning Recommendations
- Previous Flood Planning Recommendations (Cycle 1)
  - Develop an Amendment Process to Efficiently Amend Approved Regional Flood Plans to Incorporate Additional Recommended FMEs, FMS, and/or FMPs Allowing RFPGs to Advance FMEs to FMPs
  - Reduce Necessary Information Needed to Escalate Feasible FMEs to FMPs
  - Revise "No Adverse Impact" Certification Criteria Required for FMPs



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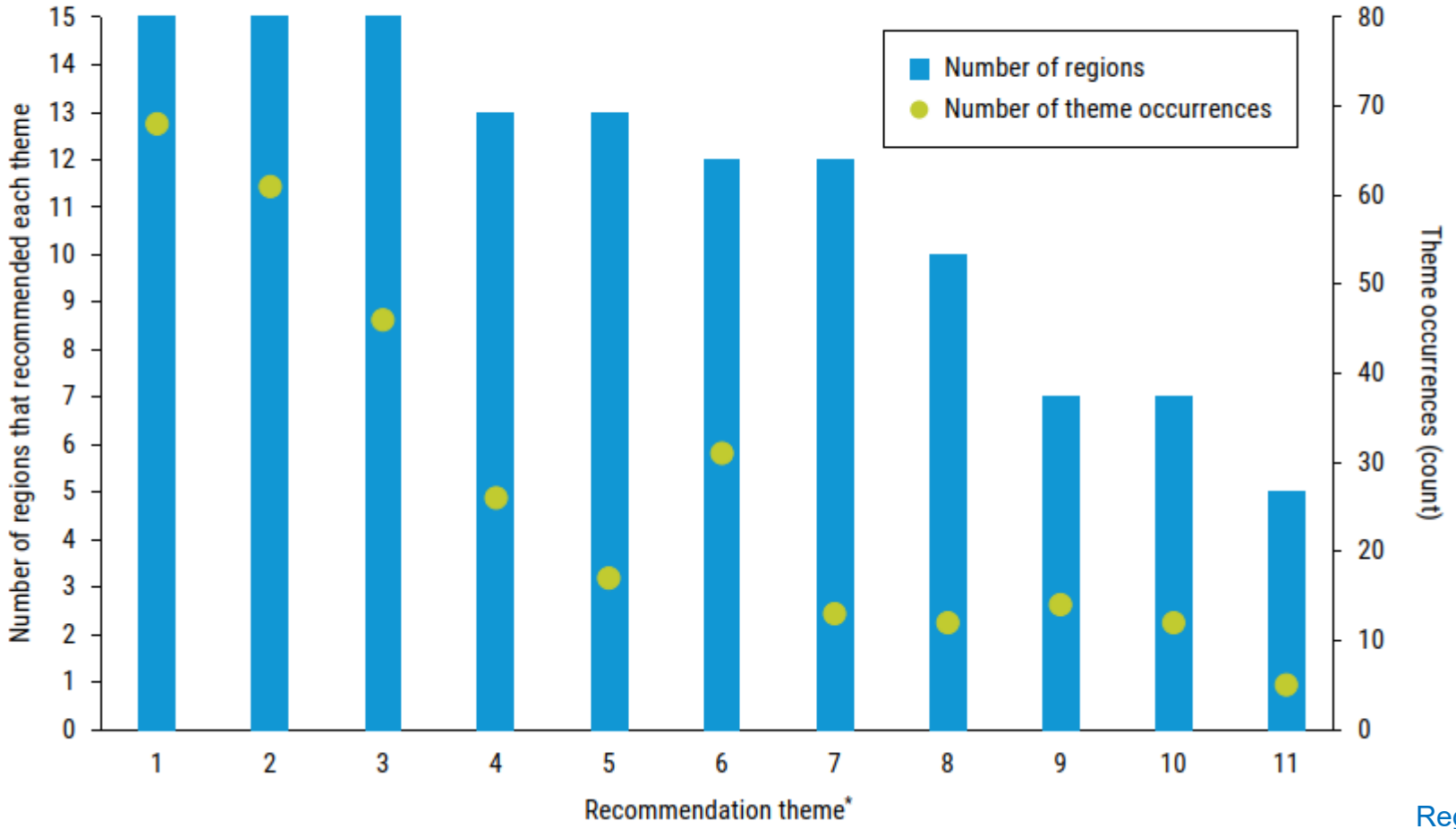
Administrative, Regulatory, and Legislative Recommendations

[31 TAC §361.43]

Regional Flood Plans | Texas Water Development Board

Task 8: Administrative, Regulatory, Legislative, & Flood Planning Recommendations

Figure 2-1. Summary of administrative, legislative, and regulatory recommendations made by the regional flood planning groups

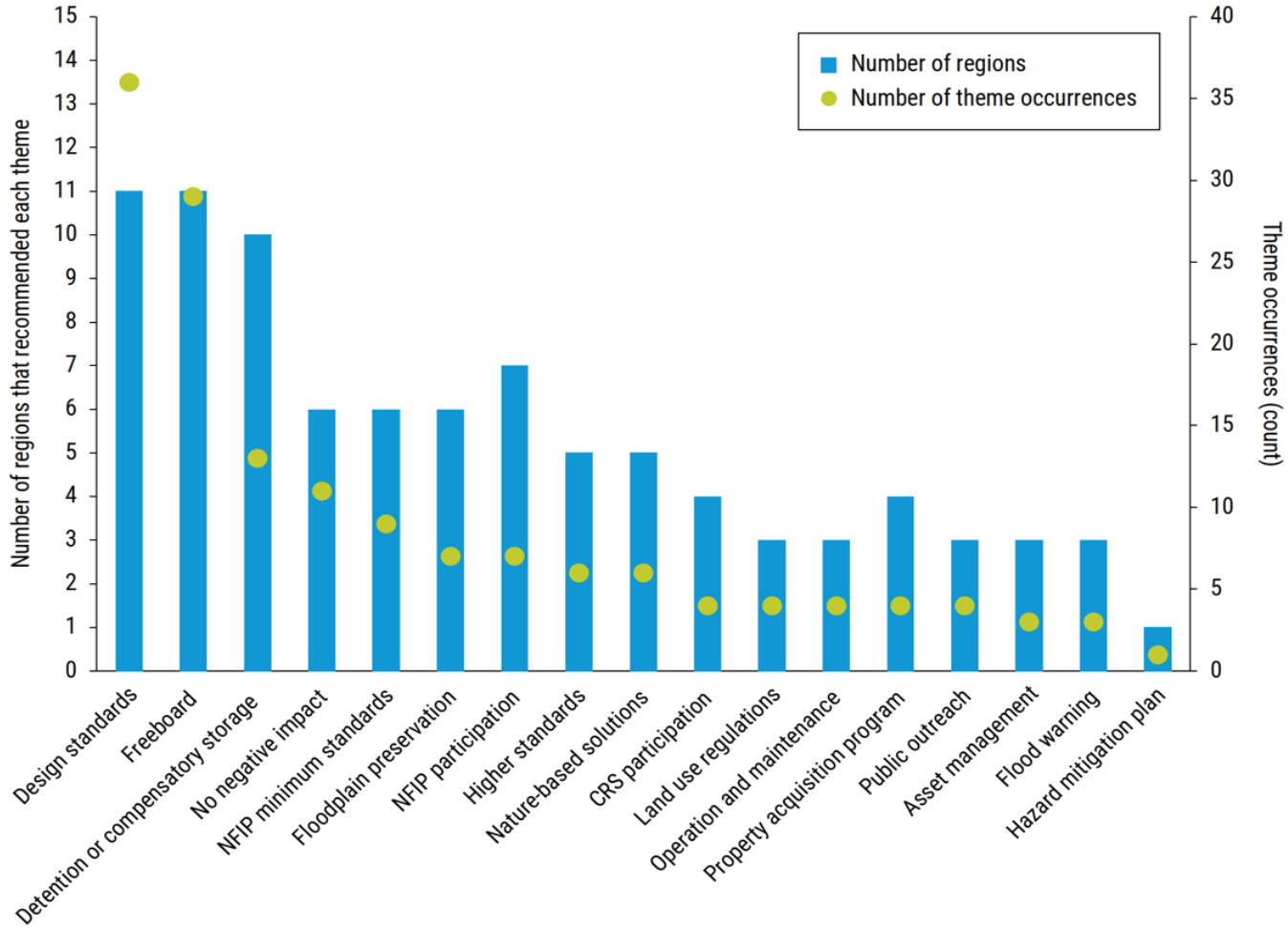


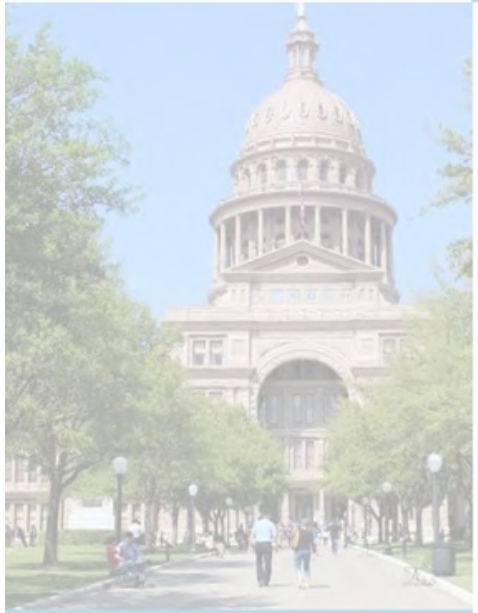
1. Infrastructure, stormwater, and project design standards; infrastructure programs (dams, levees, roadways, channels, low water crossings)
2. Funding and financial mechanisms
3. Public education, outreach, interjurisdictional collaboration, and administrative training
4. Data, mapping, and modeling updates
5. Small and rural jurisdiction assistance
6. Floodplain ordinances and regulatory authority
7. Drainage utility fee authority
8. Improving benefit-cost analyses
9. Nature-based solutions, green infrastructure, conservation easements, and open space preservation
10. Federal program participation and collaboration
11. Statewide building code implementation and development

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Task 8: Administrative, Regulatory, Legislative, & Flood Planning Recommendations

Figure 2-2. Summary of floodplain management recommendations made by the regional flood planning groups





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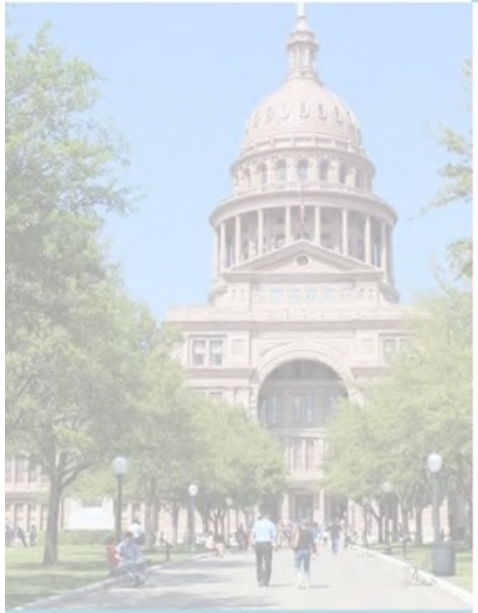
Administrative, Regulatory, and Legislative Recommendations

[31 TAC §361.43]

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Task 8: Administrative, Regulatory, Legislative, & Flood Planning Recommendations

- Legislative Considerations
  - Expand & Sustain Flood Programs
  - Increase Support for Property- & Land-based Mitigation Strategies
  - Strengthen Flood Resilience & Public Safety Policies
- Regulatory & Administrative Considerations
  - Improve Statewide Guidance, Standards, & Consistency
  - Enhance Local Floodplain Management Capacity and Participation
  - Promote Nature-Based Solutions and Resources
- Flood Planning Considerations
  - Improve Planning Priorities & Project Evaluation Methods
  - Strengthen Coordination Among Planning Partners
  - Improve Planning Assumptions & Forecasting Methods



8

Administrative, Regulatory, and Legislative Recommendations

[31 TAC §361.43]

Seeking Additional Task 8 Recommendations by January 2026 for Inclusion in Region 9 Flood Plan

Task 9 Update

Flood Infrastructure Financial Analysis

Chapter 9: Flood Infrastructure Financial Analysis

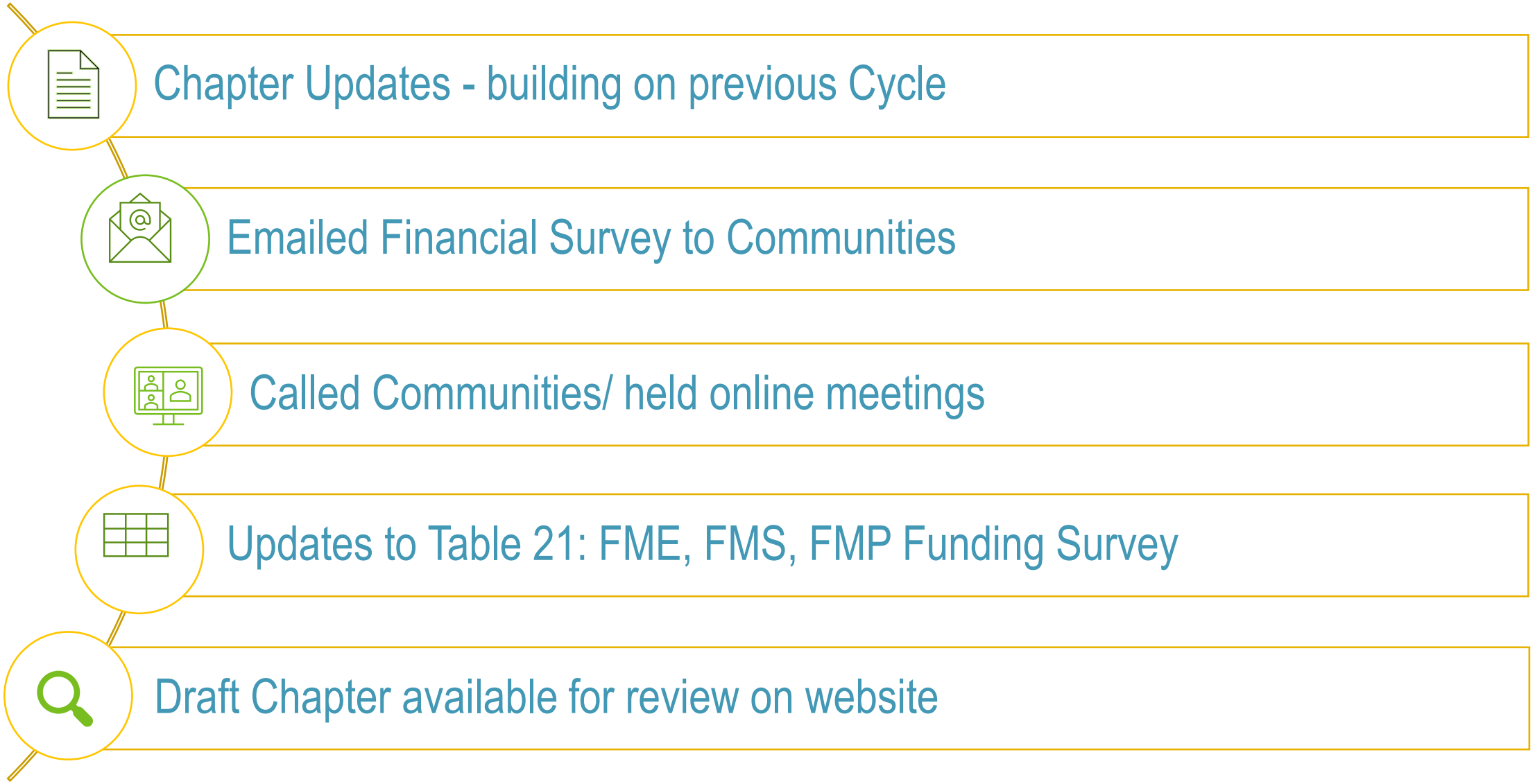


Table 22 - Changes to FMX Update

- Correction to FMX Sponsors – 25 updates to make
- FMX will be **completed by Draft RFP** date: **NOT RECOMMENDED**

City of Lamesa	Schleicher County	Howard County	Gaines County	City of Snyder	Ector County	Ector County	City of Odessa	Midland County	Tom Green County
FME	FME	FME	FME	FME	FMS	FME	FME	FMS	FME
DMP	DMP	DMP	DMP	DMP	DCM	DMP	DMP	DCM	South Concho River Crossing Eval.
09-51-0000000009	09-51-0000000086	09-51-0000000045	09-51-0000000036	09-51-0000000015	09-53-0000000108	09-51-0000000031	09-51-0000000012	09-53-0000000002	09-51-0000000148

- FMX **no longer needed** – **NOT RECOMMENDED**

City of Mertzon	City of Colorado City	Howard County	Midland County
NFIP Participation	NFIP Participation	NFIP Participation	FMXs withdrawn by County
09-53-0000000114	09-53-0000000047	09-53-0000000112	11 FMXs not recommended

Shared R9/R14 RFPG Counties – FMXs (AECOM)

Andrews County	FME	Andrews County DMP	09-51-0000000001
Andrews County	FME	Andrews County FEMA Mapping	09-51-0000000002
Andrews County	FME	Andrews County GIS Development	09-51-0000000003
Andrews County	FME	Southwest Andrews Playa	09-51-0000000138
Andrews County	FME	Northwest Andrews Playa	09-51-0000000139
Andrews County	FMP	Northwest Andrews Playa Lake Excavation	09-52-0000000013
Andrews County	FMP	Southwest Andrews Playa Excavation	09-52-0000000104
Andrews County	FMS	Andrews County DCM	09-53-0000000001
Andrews County	FMS	Andrews County NFIP Application	09-53-0000000018
Crockett County	FME	Crockett County DMP	09-51-0000000025
Crockett County	FME	Crockett County FEMA Mapping	09-51-0000000026
Crockett County	FME	Crockett County GIS Development	09-51-0000000027
Crockett County	FMS	Crockett County Flood Warning System	09-53-0000000067
Crockett County	FMS	Crockett County Flood Insurance Awareness Program	09-53-0000000068
Crockett County	FMS	Crockett County DCM	09-53-0000000107
Upton County	FME	Upton County DMP	09-51-0000000111
Upton County	FME	Upton County FEMA Mapping	09-51-0000000112
Upton County	FME	Upton County GIS Development	09-51-0000000113
Upton County	FMS	Upton County NFIP Application	09-53-0000000126
Upton County	FMS	Upton County DCM	09-53-0000000127

Shared Counties/ County seat (County seat in R9 highlighted)

Andrews County/ **Andrews**

Crockett County/ Ozona (6 FMXs)

Ector County/ **Odessa**

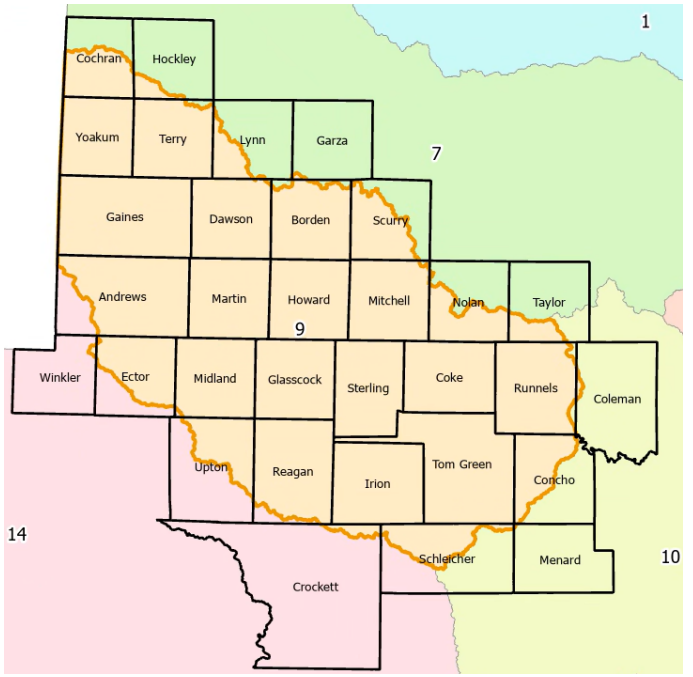
Midland County/ **Midland**

Reagan County/ **Big Lake**

Schleicher County/ **Eldorado**

Upton County/ Rankin (5 FMXs)

Winkler County/ Kermit (0 FMXs)



Shared R9/R14 RFPG Counties – FMXs (AECOM)

Region 9 - Region 14 Splits		
County	Region	Area (sq mi)
Andrews	9	1226.5
Andrews	14	268.7
Crockett	9	75.8
Crockett	14	2719.9
Ector	9	617.8
Ector	14	281.8
Midland	9	891.1
Midland	14	7.2
Reagan	9	1087.4
Reagan	14	83.5
Schleicher	9	434.4
Schleicher	14	331.6
Upton	9	478.3
Upton	14	759.2
Winkler	9	9.3
Winkler	14	827.1

Shared Counties/ County seat (County seat in R9 highlighted)

Andrews County/ **Andrews**

Crockett County/ Ozona (6 FMXs)

Ector County/ **Odessa**

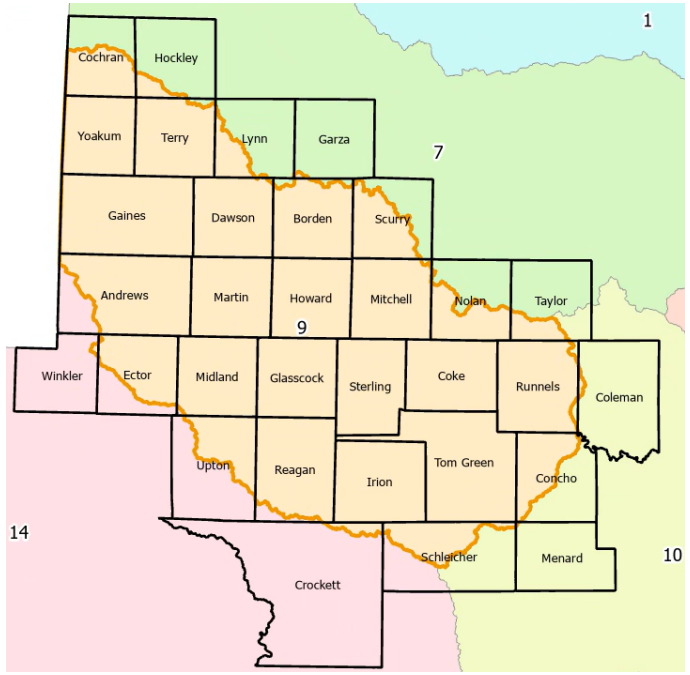
Midland County/ **Midland**

Reagan County/ **Big Lake**

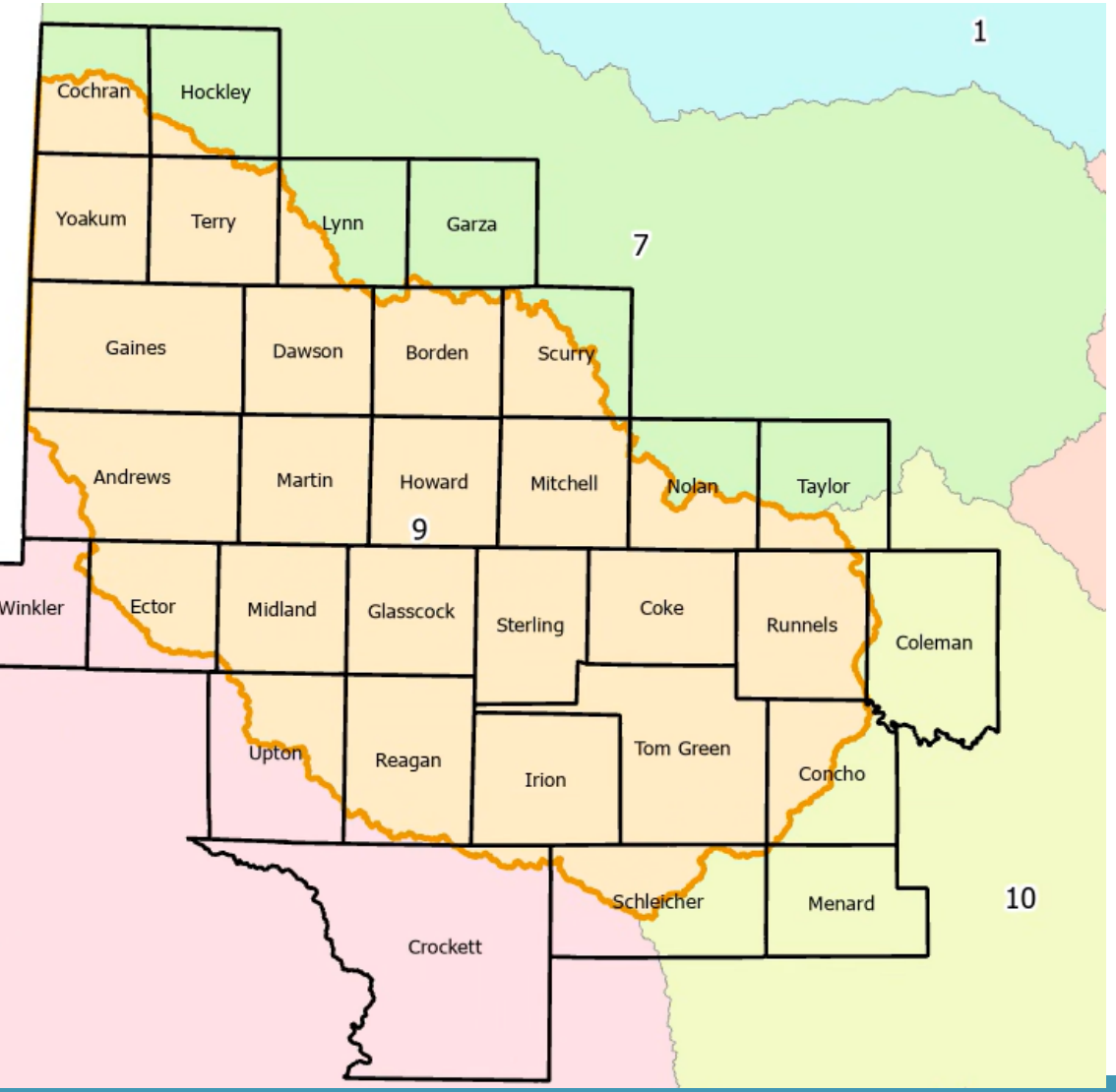
Schleicher County/ **Eldorado**

Upton County/ Rankin (5 FMXs)

Winkler County/ Kermit (0 FMXs)



Shared R9/R7 RFPG Counties – FMXs (FNI)



Region 9 - Region 7 Splits

County	Region	Area (sq mi)
Borden	7	54.6
Borden	9	848.4
Cochran	7	324.5
Cochran	9	449.0
Dawson	7	4.0
Dawson	9	894.8
Garza	7	884.8
Garza	9	8.7
Hockley	7	811.4
Hockley	9	95.2
Lynn	7	673.4
Lynn	9	216.7
Mitchell	7	8.2
Mitchell	9	905.1
Nolan	7	460.9
Nolan	9	449.7
Scurry	7	393.0
Scurry	9	513.5
Taylor	10	133.7
Taylor	7	611.6
Taylor	9	170.3
Terry	7	24.9
Terry	9	862.8

Shared Counties/ County seat (County seat in R9 highlighted)

Borden County/ Gail

Cockran County/ Morton (7 FMXs)

Dawson County/ Lamesa

Garza County/ Post (0 FMXs)

Hockley County – Levelland (4 FMXs)

Lynn County/ Tahoka (4 FMXs)

Mitchell County/ Colorado City

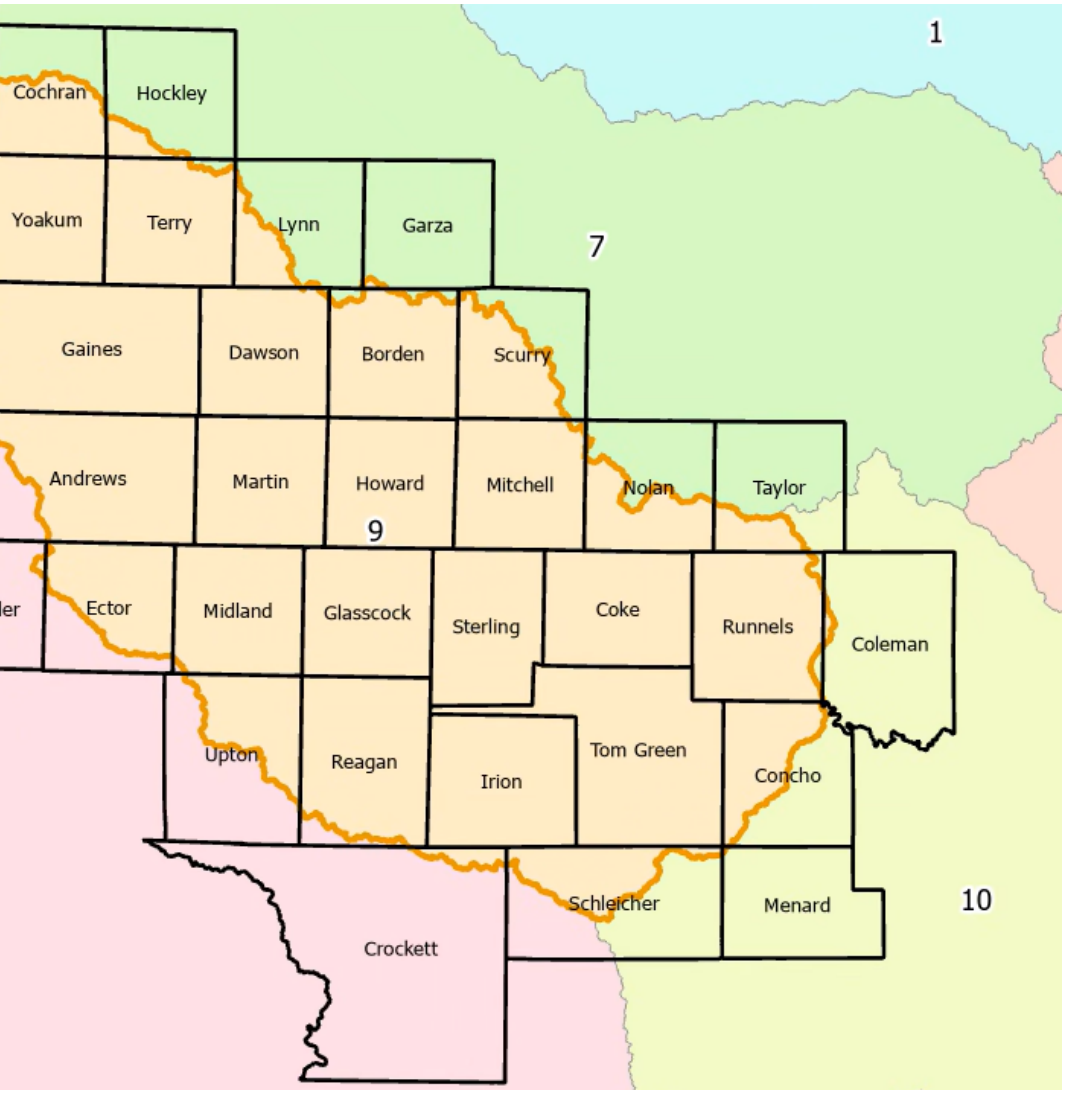
Nolan County/ Sweetwater (8 FMXs)

Scurry County/ Snyder

Taylor County/ Abilene (12 FMXs)

Terry County/ Brownfield

Shared R9/R10 RFPG Counties – FMXs (Halff)



Region 9 - Region 10 Splits

County	Region	Area (sq mi)
Coleman	10	1258.9
Coleman	9	17.5
Concho	10	514.8
Concho	9	474.2
Menard	10	897.4
Menard	9	1.1
Runnels	10	38.5
Runnels	9	1013.9
Schleicher	10	544.0
Schleicher	9	434.4
Taylor	10	133.7
Taylor	7	611.6
Taylor	9	170.3

Shared Counties/ County seat
(County seat in R9 highlighted)

Coleman County/ Coleman (1 FMX)

Concho County/ **Paint Rock** **(7 FMXs)**

Menard County/ Menard (2 FMXs)

Runnels County/ **Ballinger**

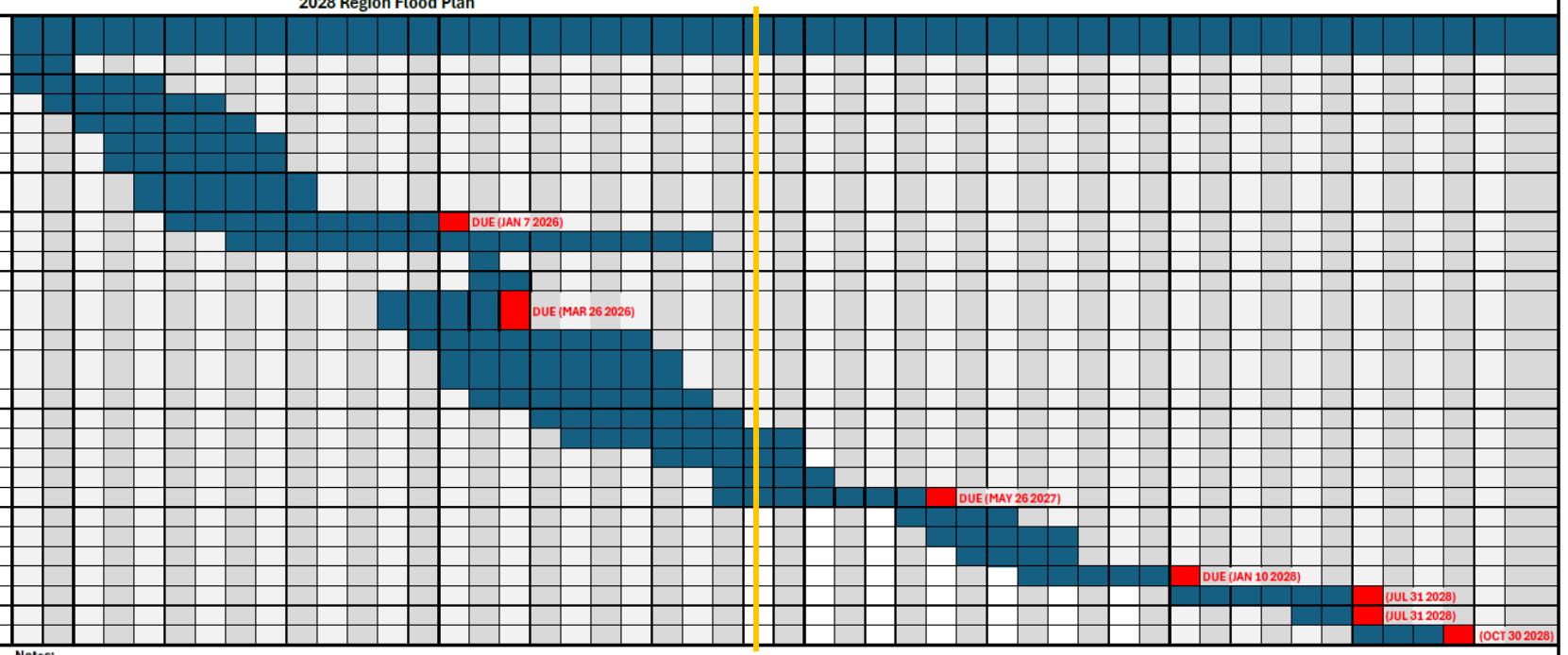
Schleicher County/ **Eldorado**

Schedule

Working Conceptual Schedule**
Second Cycle of Regional Flood Planning

As of October 2026

Item	Entity	Activity	Planning SOW Task #
		2028 Region Flood Plan	
4	RFPG	Public participation: stakeholder input, post notices, hold meetings, maintain email lists, maintain website.	10
12	RFPG	Planning Area Description	1
13	RFPG	Existing Condition Flood Risk Analyses	2A
14	RFPG	Future Condition Flood Risk Analyses	2B
15	RFPG	Evaluation and Recommendations on Floodplain Management Practices	3A
16	RFPG	Flood Mitigation Need Analysis	3B
17	RFPG	Flood Mitigation and Floodplain Management Goals	3C
18	RFPG	Identification and Evaluation of Potential Flood Management Evaluations and Potentially Feasible Flood Mitigation Projects and Flood Management Strategies	4A
19	RFPG	Preparation and Submission of Technical Memorandum to the TWDB	4B
20	RFPG	Performance of FMEs	4C
21	TWDB	Issue Notice-to-Proceed on Task 5	
22	RFPG	Recommendation of FMEs, FMSs, and FMPs	5A
23		Recommend and Submit a List of Flood Management Evaluations to be Performed by TWDB	5B
24	RFPG	Impacts of Regional Flood Plan	6A
25	RFPG	Contributions to and Impacts on Water Supply Development and the State Water Plan	6B
26	RFPG	Flood Response Information and Activities	7
27	RFPG	Administrative, Regulatory, and Legislative Recommendations	8
28	RFPG	Flood Infrastructure Financing Analysis	9
32	RFPG	Implementation and Comparison to Previous Regional Flood Plan	11
29	RFPG	Public Participation and Plan Adoption	10
30	RFPG	Prepare and Submit Draft RFP to TWDB	All
31	RFPG	Public Input on Draft RFP	All
33	TWDB	TWDB Review and Comment on the Draft RFP	All
34	RFPG	Incorporate TWDB & Public Input into Final RFP	All
35	RFPG	Adopt and Submit the 2028 RFP to the TWDB	All
36	TWDB/Sponsor	Contract expiration	Contract
37	TWDB/Sponsor	Last day that work performed is eligible for reimbursement	Contract
38	TWDB/Sponsor	Last day that the final payment request may be submitted for reimbursement	Contract



Acronyms:
RFP - Regional Flood Plan
FME - Flood Management Evaluations
FMS - Flood Management Strategy
FMP - Flood Mitigation Project

Notes:
**This conceptual schedule contains approximate timeframes for high-level planning activities for the purpose of illustrating the anticipated order of and
Details of work associated with each task can be found in the Draft Scope of Work: https://www.twdb.texas.gov/flood/planning/planningdocu/2028/index.asp





Upper Colorado Regional Flood Plan

Agenda Items No. 9, 10, and 11

November 16, 2026