

RESOLUTION
Texas Water Development Board
Grant Agreement and Authorized Representative Resolution

A RESOLUTION by the County Commissioner's Court of Llano County accepting financial assistance from the Texas Water Development Board; authorizing the execution of a grant agreement; and making certain findings in connection therewith.

BE IT RESOLVED BY THE
COUNTY COMMISSIONER'S COURT OF LLANO COUNTY:

SECTION 1: That a grant agreement is hereby approved and authorized to be executed with the Texas Water Development Board for a grant in an amount not to exceed \$1.25 million to provide for the costs of the installation of an outdoor warning siren system, in accordance with Texas Government Code §418.027 and Texas Water Code, Chapter 16, Subchapter M.

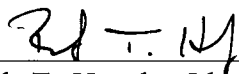
SECTION 2: That the Llano County Judge be and is hereby designated the authorized representative of the County for purposes of furnishing such information and executing such documents as may be required in connection with the preparation and execution of such grant agreement, including non-substantive amendments and amendments to increase the grant amount.

SECTION 3: That the following firms and individuals are hereby authorized and directed to aid and assist in the preparation and submission of such documents and appear on behalf of and represent the Llano County Commissioner's Court before any hearing held by the Texas Water Development Board on such application, to wit:

Engineer: Waterway Engineering

Legal Counsel: Dwain Rogers, Llano County Attorney

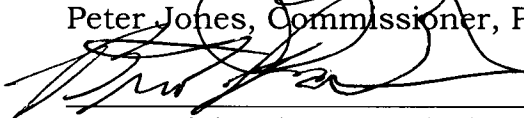
PASSED AND APPROVED, on this 13 day of July 2026.



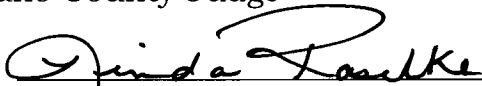
Rob T. Hardy, Llano County Judge



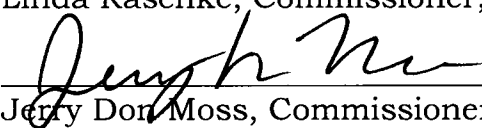
Peter Jones, Commissioner, Pct 1



Brent Richards, Commissioner, Pct 3



Linda Raschke, Commissioner, Pct 2



Jerry Don Moss, Commissioner, Pct 4

Attest: Cecilia McClintock
Cecilia McClintock, County Clerk

SB3 Siren Community Contact Information

County	Llano County			
Office Address	801 Ford St, Llano TX 78643 (Judge)			
	PO Box 980, Llano, TX 78643 (Auditor) / PO Box 367, Llano, TX 78643 (Treasurer)			
First Name	Last Name	Position	Email	Phone
Rob	Hardy	Judge	rhardy@llanocounty.gov	325-247-7730
Gilbert	Bennett	County EMC	gbennett@co.llano.tx.us	325-247-2039
Cheryl	Regmund	County treasurer	cregmund@llanocounty.gov	325-247-7743
Cheryl	Kepp	Grant Administrator/Chief Deputy Treasurer	ckepp@llanocounty.gov	325-247-7743
Kelly	Eckhardt	Auditor (leaving 9.30.2026)	keckhardt@co.llano.tx.us	325-247-3783
Lance	Center	Auditor (after 9.30.2026)	lcenter@llanocounty.gov	325-247-3783
Michelle	Yoho	Auditor - Billing Contact	m.yoho@co.llano.tx.us	325-247-3783
Marquis	Cantu	County Sheriff (or appropriate representative	mcantu@llanocounty.gov	325-247-5767
Doni	Whitecotton	County Dispatch	dwhitecotton@llanocounty.gov	325-247-5767 x5300
Peter	Jones	Commissioner Pct #1	commpct1@llanocounty.gov	830-598-2296
Linda	Raschke	Commissioner Pct #2	linda.raschke@llanocounty.gov	512-793-6181
Brent	Richards	Commissioner Pct #3	brichards@llanocounty.gov	512-793-2007
Jerry Don	Moss	Commissioner Pct #4	jerrydonmoss@hotmail.com	325-247-2788
Jennifer	Smith	Court Coordinator/Judge's Assistant	jsmith@llanocounty.gov	325.247.7730

Note: Please add any person who may be important in making decisions regarding emergency management

TASK ORDER #1

In accordance with the Agreement for Professional Engineering and Consulting Services between the Llano County ("County") and Waterway Engineering, PLLC. ("Engineer") dated 7/13/2026 (the "Agreement"), the Parties agree to this Task Order for the performance of services to be rendered by Engineer under said Agreement. Except as otherwise set forth in this Task Order, the performance of Task Order services shall be subject to all terms and conditions of the Agreement.

TASK ORDER #:	1
TASK ORDER PROJECT TITLE:	Initial Project Planning
PROJECT DESCRIPTION NARRATIVE:	TWDB awarded grant funding under Senate Bill 3 (SB3) to Llano County for the purpose of installing outdoor warning sirens in flash flood-prone areas. Engineer will support County in initial project planning in order to meet SB3 requirements.
TASK ORDER SCOPE OF SERVICES NARRATIVE:	Services to be provided by Engineer under this Task Order are set forth in <u>Exhibit "A"</u> .
PAYMENT TERMS	Engineer will be compensated on a time and materials basis using the Year One labor rates in Engineer's master service agreement with County. The not-to-exceed budget for this task order is \$100,446 , as summarized in the table of labor costs provided in <u>Exhibit "A"</u> . Additional compensation may be paid to Engineer by the County for unanticipated labor costs and expenses upon prior approval by the County.
REIMBURSEMENT OF EXPENSES:	Engineer will be reimbursed for direct expenses. The not-to-exceed budget for direct expenses for this task order is \$5,000 . Additional compensation may be paid to Engineer by the County for reimbursement of unanticipated direct expenses upon prior approval by the County.
SOURCE OF FUNDING	Except as provided below, payment by the County to Engineer for services performed under this Task Order shall be sourced from TWDB funding received by the County. Upon prior approval, the County may compensate Engineer for services or reimbursement of expenses using alternative funding sources.

County:

Llano County

By: _____

Name: _____

Rob T. Hardy

Rob T. Hardy

ENGINEER:

Waterway Engineering, PLLC

By: _____

Name: Michael Pantell, PE

Michael Pantell

Title: County Judge

Date: 7/13/2026

Title: Principal

Date: 6/24/2026

Exhibit “A”

Services to be Performed by Engineer under this Task Order #1

Task 1 Project Management

Project management activities will include project coordination, cost and schedule control, meeting documentation, and monthly invoicing. Project management also includes limited ad-hoc coordination with the County via phone, email, or virtual meetings, as needed.

Task 2 Flash Flood Prone Area Refinement

The purpose of this task will be to refine the areas that the TWDB have identified are flash flood prone and result in a risk of loss of life and property. Data from the TWDB will be obtained and refined using planning level flood modeling (if warranted), higher resolution data and local knowledge. This task will require refinement of the data and detailed review of areas identified as requiring a siren. It is expected that the County will provide feedback for areas to assist with refinement. The revised map will be provided to TWDB for initial review to confirm that they will accept the revisions. Final acceptance will require TWDB Board adoption.

The results of this task will be a refined map of areas that the County and municipalities will be required to provide siren coverage.

Task Assumptions

- County and local stakeholders to provide feedback
- Two (2) rounds of TWDB review

Task Deliverables

- Final map of flash flood prone areas

Task 3 Assess Existing Infrastructure & Data

The purpose of this task is to assess the existing flood monitoring and warning infrastructure and data. This task will include:

- Determine location, type, and reliability of existing stage gages
- Determine location, type, and reliability of existing rainfall gages
- Determine location, type, and reliability of existing sirens
- Determine availability and quality of existing hydrologic and hydraulic modeling data

Once the data is compiled and reviewed, gaps in coverage and data will be identified. The Task will also include reviewing existing emergency management protocols around flood warning. This will include:

- Assess existing emergency management approaches
- Determining roles and responsibilities
- Determining existing mass communication systems

Task Assumptions

- County to provide existing data and information as available

Task Deliverables

- Summary Report of existing information

Task 4 Initial Siren Vendor Procurement

The purpose of this task will be to obtain the gage and siren vendor(s) who will be responsible for implementing the system. The siren vendor will be responsible for performing the sound analysis necessary to determine initial

siren placement. This will include recommending siren equipment that will meet all SB3 requirements and providing the technical documentation necessary to verify.

Task Assumptions

- Gage and siren vendor(s) will provide, install, integrate, and test equipment that meets SB3 requirements
- Siren vendor will provide sound analysis maps
- No more than ten (10) sirens will be required

Task Deliverables

- Recommended siren vendor and stage gage procurement methods

Task Order Costs

Task Order 1		
1.1	Project Management	\$ 39,600
1.2	Flash Flood Prone Area Refinement	\$ 14,400
1.3	Assess Existing Infrastructure & Data	\$ 27,014
1.4	Initial Vendor Procurement	\$ 19,432
Total		\$ 100,446

SB3 Outdoor Warning Siren Project Plan Template (County Submission Packet)

1. Project Overview (one- to three-page narrative)

This Project Plan is submitted pursuant to Senate Bill 3 (89th Legislature, 2nd Called Session) and related appropriations and guidance administered by the Texas Water Development Board (TWDB), as supplemented by Senate Bill 5 (89th Legislature, 2nd Called Session) and applicable Board materials. Note that monthly progress reports, including monthly invoices, as well as a final report will be required as part of all project plans.

PLANNING PROJECTS

For counties that have not yet planned their outdoor warning siren systems, this plan establishes the parameters of the Outdoor Warning Siren System for the applicant, including service area, proposed siren locations and related site control, recommended technology – including siren triggers, and project partners to support TWDB review and approval for advance funding and reimbursement purposes.

Please provide a one- to three-page overview of your project. The description should include:

- a summary of the proposed planning activities to develop the parameters of the flood warning siren system, including
 - the system components, including sirens, gages, and other necessary equipment;
 - a description of the outdoor warning siren service area, including how it corresponds to the flash flood-prone areas identified by the TWDB (coming late January 2026);
 - a summary of recommended partnerships and agreements related to the installation, operation, and maintenance of the flood warning siren system, as identified during the planning process; and
- a summary of partnerships between the project sponsor and other entities, such as municipalities, special purpose districts, and/or agencies established for the purpose of conducting the planning study.

POST-PLANNING PROJECTS

For counties that have undergone planning and are ready to begin developing or improving their outdoor warning siren systems, this plan establishes proposed siren locations, confirms local site control, and provides planning-level cost and schedule information to support TWDB review and approval for advance and reimbursement purposes.

Please provide a one- to three-page overview of your project. The description should include

- a summary of the flood warning siren system and its components, including sirens, gages, and other equipment that make up the system;
- a summary of locations for siren installation and the rationale for how the final placement of the proposed siren locations were selected;
- the flood warning siren service areas, including all counties, municipalities, and special purpose districts within the service area; and

- a summary of any partnerships and agreements related to the installation, operation, and maintenance of the flood warning siren system, including who assumes ownership responsibility of each component in the system.

2. Siren Location Information

NOTE: This section does not apply to PLANNING PROJECTS, as siren locations are identified during the planning process.

Provide one row for each proposed outdoor warning siren as well as other components funded by this grant. Note that the TWDB understands that modifications to exact locations may be necessary. Justification must be provided to the TWDB for such changes.

Siren ID (County Decides)	Latitude (DD.ddddd)	Longitude (DD.ddddd)	New or Replacement or Upgrade?	Notes

3. Service Area and Equipment Location Map

NOTE: This section does not apply to PLANNING PROJECTS, as siren locations are identified during the planning process.

Attach an area map showing the relative location of all proposed sirens as well as other necessary project components funded through this grant. The map should also include the service area of the project, including the audible range of each siren. Including two maps, one reflecting the full-service area and one reflecting equipment locations, is acceptable. Maps must be presented in PDF and GIS format. GIS files and supporting data should be submitted as part of the project plan. The map is not required to include engineering design.

(For a map template, see the example map provided in the Flash Flood Warning Siren Guide.)

4. Site Control & Access Certification

NOTE: Either the County or an entity that the County has contracted with may complete this section. Additionally, this section does not apply to PLANNING PROJECTS, as site control and access are identified during the planning process.

The County, or its authorized representative, certifies that it has sufficient legal authority, permission, or ownership interest to install, operate, access, and maintain each proposed siren location identified in this Project Plan, including reasonable ingress and egress for installation and ongoing maintenance, or has contracted with another entity to install, operate, access, and maintain each proposed siren location identified in this Project Plan. The County, or its authorized representative, also certifies that for any development that occurs in the floodplain, all necessary permits have been obtained, including floodplain permits. The County, or its authorized representative, also certifies that all necessary permits and regulations have been obtained and complied with as part of this project. The County assumes full

responsibility for operation and maintenance of all sirens installed under this project or has contracted with another entity for operation and maintenance of all sirens installed under this project.

County Authorized Representative:

Name: _____

Title: _____

Signature/Date: _____

5. Requirements Compliance

NOTE: Either the County or an entity that the County has contracted with may complete this section.

Counties are required to certify that their outdoor warning siren systems will meet each of the minimum requirements specified below. By initialing next to each of the requirements below, the authorized representative is certifying that the requirement is understood and will be met as part of this project plan.

#	Requirement	Initial
2.1	Communities must identify a primary and backup administrator responsible for their siren system with full oversight and awareness of the system with full oversight and awareness of the system and associated activities.	
2.2	Joint siren operations between municipalities, counties, and/or other government agencies must include a signed and/or adopted Memorandum of Understanding or similar written agreement with documented roles and responsibilities.	
3.1	Communities must follow and document a process for siren site selection.	
3.2	Sirens must produce an audible alert of no more than 130 dB(C) at a distance of 100 feet from the siren. The siren's coverage area is defined as the area in which the audible alert is at least 70 dB.	
3.3	Sirens must have the following: • Both local and remote manual overrides for triggering the siren. • A primary power source capable of operating the siren continuously and reliably. • A backup power source different than the primary power source that is sufficient to operate the siren as designed in the absence of the primary power source (as detailed further below). • Automatic transition between primary and backup power in the event of failure. The backup power source must provide sufficient power for: • 24 hours of standby. ○ "Standby" refers to the operation state where the system is waiting for a trigger signal and is capable of alter when a trigger signal is received. • 30 minutes of alerting. ○ This requirement has been modified from the FEMA standard of 15 minutes to provide for a series of 10, three-minute audible alerts. Batteries used for power supply must: • Be automatically and fully recharged to at least 80 percent of maximum rated capacity from the fully discharged state in 24 hours or less.	

	Be a low-maintenance design with a vendor-specified lifespan of at least five years. Note that this value has been modified from the FEMA standard of three years based on industry experience and advancements in battery technology.	
3.4	Sirens must have a backup communications method that is sufficient to operate the siren as designed in the absence of the primary communication method. The siren must provide automatic transition between primary and backup communication methods in the event of failure.	
3.5	When used as a siren activation trigger, gauges must use at least one form of telemetry capable of transmitting data to a central location at a minimum of every 15 minutes.	
3.6	Sirens must be tested immediately after installation, and the results must be documented.	
3.7	Sirens must include at least one stream gauge as an activation trigger. One gauge may serve as a trigger for multiple sirens.	
3.8	All siren electronic components must be elevated to or above the 500-year, 24-hour maximum water surface elevation.	
4.1	An operations plan must be assessed annually and include, at minimum, - Roles and responsibilities, including who is responsible for authorizing activation; - Detection protocols (i.e., trigger(s), threshold(s), etc.); - Activation protocols (i.e., how and when a siren is activated); - Notification protocols for officials, emergency managers, and the general public; - Testing protocols; and - A false alarm policy.	
4.2	Sirens must be tested daily using silent tests and monthly using audible activation to verify sirens are receiving communications and are operational. Primary and backup systems must be tested. The monthly audible activation can be cancelled if severe weather is present forecasted. All tests must be conducted on a fixed, documented schedule, and test results must be documented. If a test fails, corrective action(s) must be initiated within 72 hours and retesting performed after corrective action(s) are completed. Corrective action(s) and retesting must be documented.	
4.3	A siren must produce clear, audible alter tone(s) with a minimum activation duration of three minutes per alert repeated at regular intervals.	
4.4	The siren system must be integrated with public messaging systems.	
5.1	The siren must be inspected annually following vendor guidelines. Inspection documentation must include, at a minimum, - Inspection findings and any corrective actions required, - Prior year maintenance records, and - Maintenance and inspection documentation for gauges used as activation triggers	
6.1	Communities must conduct public education and outreach to inform populations served by sirens about the system's purpose, testing schedule, alert tones and/or voice messages, and actions to take if activated.	

Requirements for compliance are also available at <https://www.twdb.texas.gov/about/sb3/index.asp>.

Disclaimer:

The Texas Water Development Board (TWDB) does not perform engineering or technical reviews of siren specifications, power sources, or communication methods. The applicant (County) is solely responsible for

ensuring that all equipment and installation meet applicable engineering standards, local codes, and operational requirements.

6. Project Budget (Estimated)

Note: PLANNING PROJECTS are only anticipated to use tasks 1, 2, and 10. Additionally, as part of the final report for PLANNING PROJECTS, please include a narrative description of how the budget amounts for the project recommended in your plan were estimated. Please follow the task structure below and include quantities and unit costs to support the narrative when possible. Vendor quotes are not required.

TASK NO.	TASK DESCRIPTION	BUDGET (\$)
1	Project Management	0.00
2	Initial Project Activities (incl. Planning)	0.00
3	Site Survey & Identification of Utility Conflicts	0.00
4	Hardware and Construction Materials	0.00
5	Installation/Construction	0.00
6	Software and Communications Configuration	0.00
7	Testing and Monitoring	0.00
8	System Inspection	0.00
9	Education and Training	0.00
10	Final Report to TWDB	0.00
	TOTAL	\$0,000.00

Note that cumulative amounts by county over \$1,000,000 are subject to the approval of the TWDB Executive Administrator and would be documented in an amendment to the original grant agreement. Amounts over \$1,250,000 are subject to the approval of the TWDB governing Board in a Board meeting and would also be documented in an amendment to the original agreement.

Please include a narrative description of how the budget amounts were estimated. Include quantities and unit costs to support the narrative. Vendor quotes are not required.

7. Project Schedule (Estimated)

NOTE: PLANNING PROJECTS are only anticipated to use phases 1, 2, and 7. POST-PLANNING PROJECTS are not anticipated to use phase 2.

Phase	Milestone	Estimated date
1	Project start	June 1, 2026
2	Planning and design	July 13, 2027
3	Procurement complete	
4	Right of way and necessary permits obtained	
5	Installation complete	
6	Operational / testing complete	
7	Final report and certification	July 13, 2027

8. Advance Request (If applicable, up to 25% of the Project Plan)

Amount requested	\$100,000
Percent of total project estimate	25%

9. Primary Project Contact

Name:	Michael Pantell
Title:	Principal Engineer
Phone:	916 708 6955
Email:	mpantell@waterwayeng.com

10. Signature of County Representative

Note: This section must be completed by the County.

The project plan template must be signed and submitted by an official representative of the County who is authorized to submit this plan on behalf of the County. This signature affirms that the information provided is accurate to the best of their knowledge at the time of signing and acknowledges that the plan may be updated as necessary.

County Representative:

Name:

Title:

Signature/Date:

Rob T. Hardy
Rob T. Hardy
County Judge
July 13/2026