



P25 RADIO PROJECT

Permian Basin
Interoperable
Radio Network



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Strategic Goal Connection

Goal 2: Set the Standard for a Safe and Secure City

2.1 Be the safest city in West Texas: Enhance public safety programs.

2.6 Grow and retain public safety resources: Expand law enforcement presence and fire reduction & prevention programs while reducing attrition.

Goal 5: Provide Sound Governance & Fiscal Management

5.2 Enhance Citizen Experience: Improve employee working conditions to better serve citizens.

Goal 6: Strengthen and Sustain our Infrastructure

6.4 Standardize infrastructure processes across the city: Ensure consistency, timeliness, and accountability in infrastructure development.

6.6 Strategize for and monitor City Growth: Develop proactive responses to growth rather than reactive.

Outline

- Project Charter
- Expected Outcomes
- Community Impact
- Project Overview
- Project History
- Participating Agencies
- User Agencies
- Coverage Areas
- Project Accomplishments
- Upcoming Tasks
- Budget

Project Charter

Foster interoperability among key public safety entities by establishing a platform that allows for seamless communication ultimately benefiting citizens by promoting a more secure and responsive public safety environment.

Expected Outcomes

- **Enhanced Collaborative Response:** Facilitate a more effective and coordinated emergency response by enabling cross-agency communication.
- **Resource Optimization:** Streamline the use of public safety resources by allowing agencies to work together more efficiently.
- **Inter-Agency Training:** Provide opportunities for joint training exercises, improving preparedness for large-scale incidents.

Community Impact

- **Improved Public Safety:** Directly impact the well-being of residents by ensuring faster and more effective responses to emergencies.
- **Resiliency Building:** Increase the region's resilience to handle emergency situations through a robust communication network.



Project Overview

- The Permian Basin Interoperable Radio Network Project is an initiative to integrate the communication systems of public safety entities within the region
- Primary Partners:
 - City of Midland
 - City of Odessa
 - Midland County
 - Ector County



Project History

- City of Midland Harris Radio System Purchase 2014
 - Everyone else is on Motorola Networks
- 2019 Begin system integration efforts resulting in numerous workarounds
- The constraints of joining two different system types kept public safety employees from communicating effectively and comprehensively
- Needs Assessment in January 2022
- Purchase in December 2022

Participating Interoperability Agencies

- City of Midland
- City of Odessa
- Midland County
- Ector County
- Midland ISD
- Ector ISD
- Greenwood ISD
- Texas DPS
- Midland College
- Odessa College
- UTPB
- Texas Tech University
- Midland Health
- Medical Center Hospital
- Midland Volunteer FD
- Odessa Volunteer FD

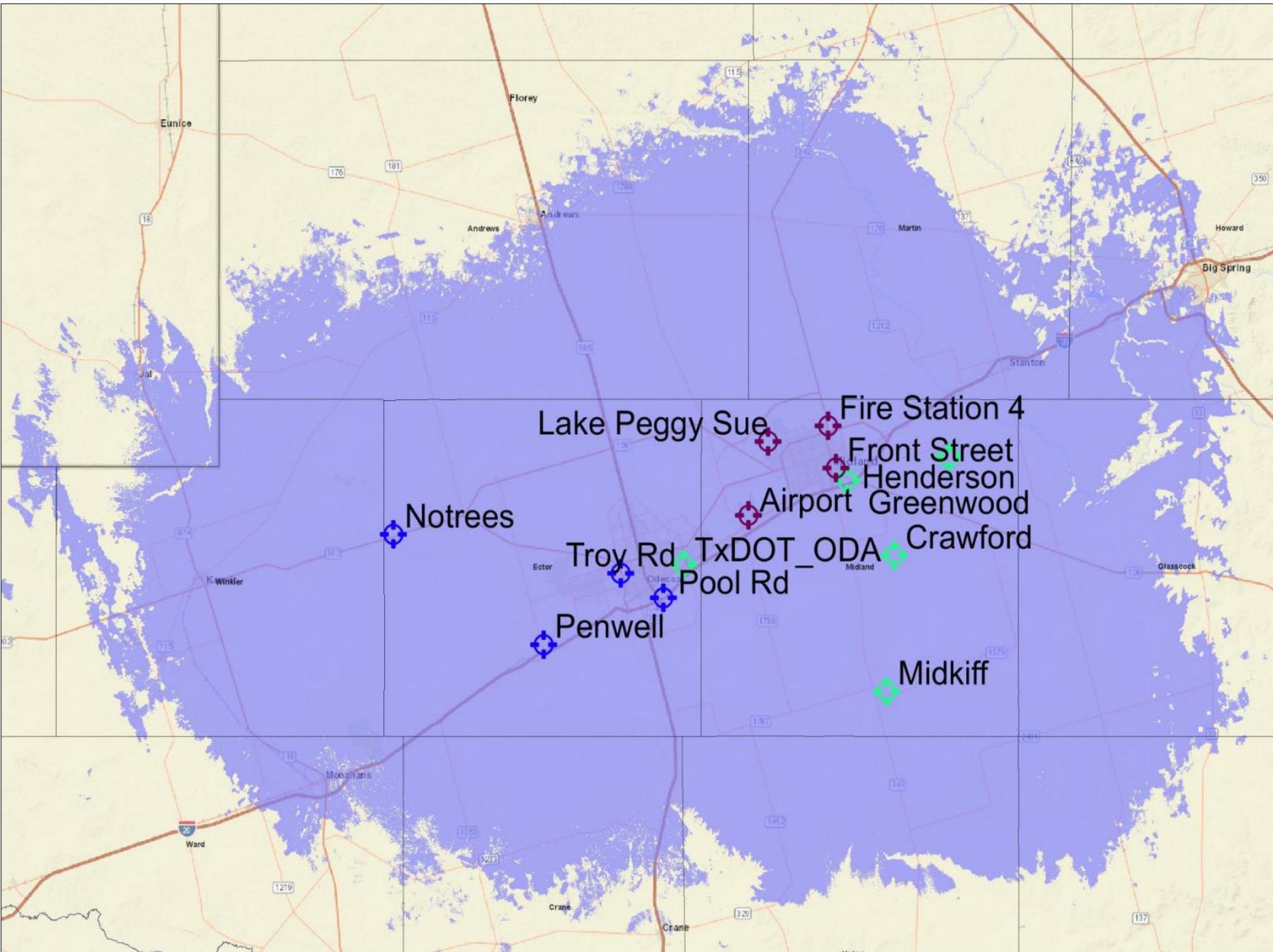


Subscriber (User) Agencies

- Midland ISD
- Greenwood ISD
- Midland College
- Midland Health
- Midland Volunteer FD



Coverage Map



Portable Coverage

- Portable radio coverage is where handheld radio devices (portable radios) can effectively communicate, typically used by public safety personnel, who need to stay connected on foot or outside vehicles



APX 8000XE

UNLIMITED MOBILITY. EXTREME PERFORMANCE.

All-band portable radio for fire and rescue teams.



APX 8000

UNLIMITED MOBILITY. UNCOMPROMISING PERFORMANCE.

All-band portable radio for first responders.



APX 6000

RELIABLE. RESPONSIVE. READY FOR ANYTHING.

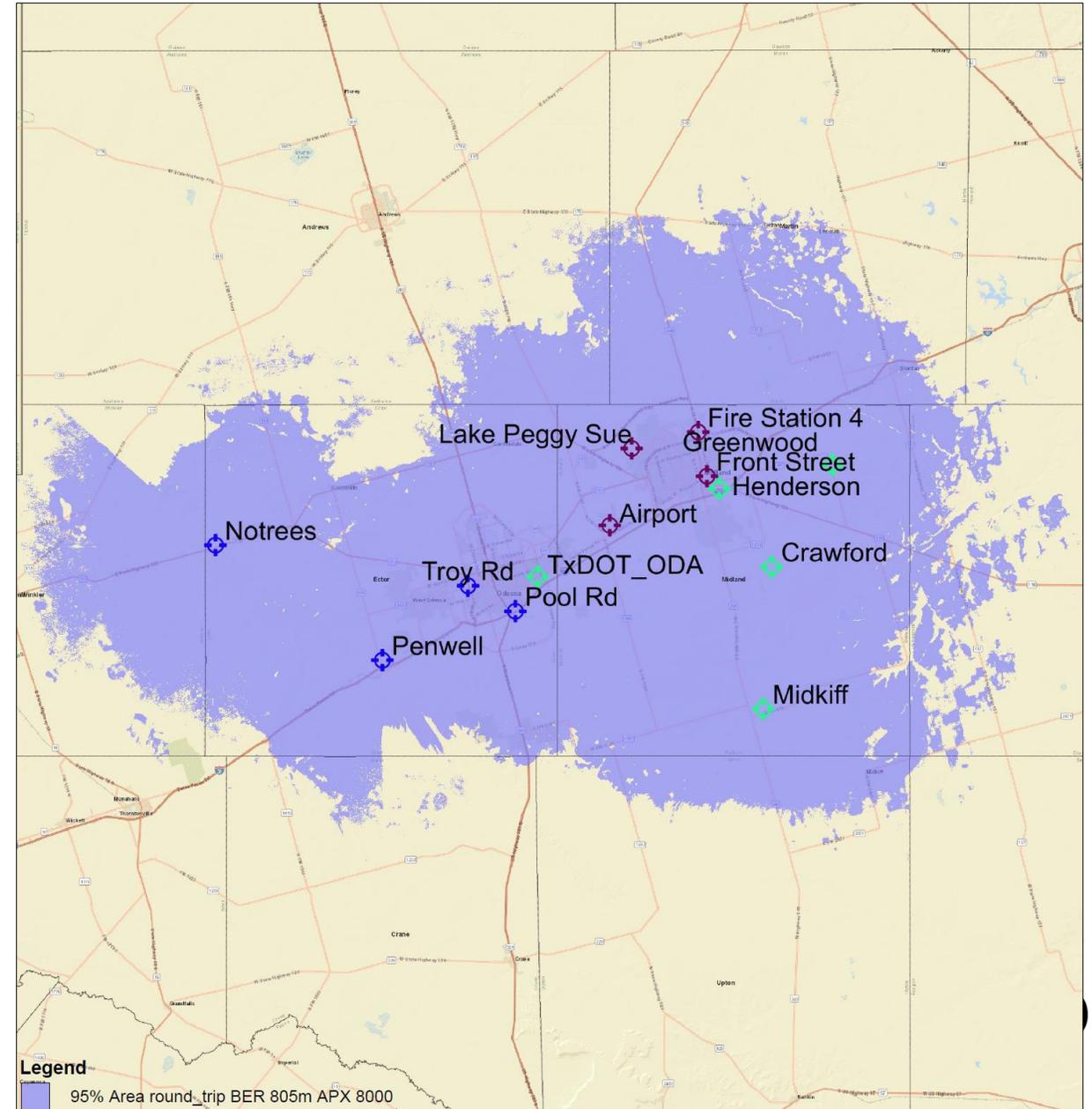
Single-band portable radio for first responders.



APX 900

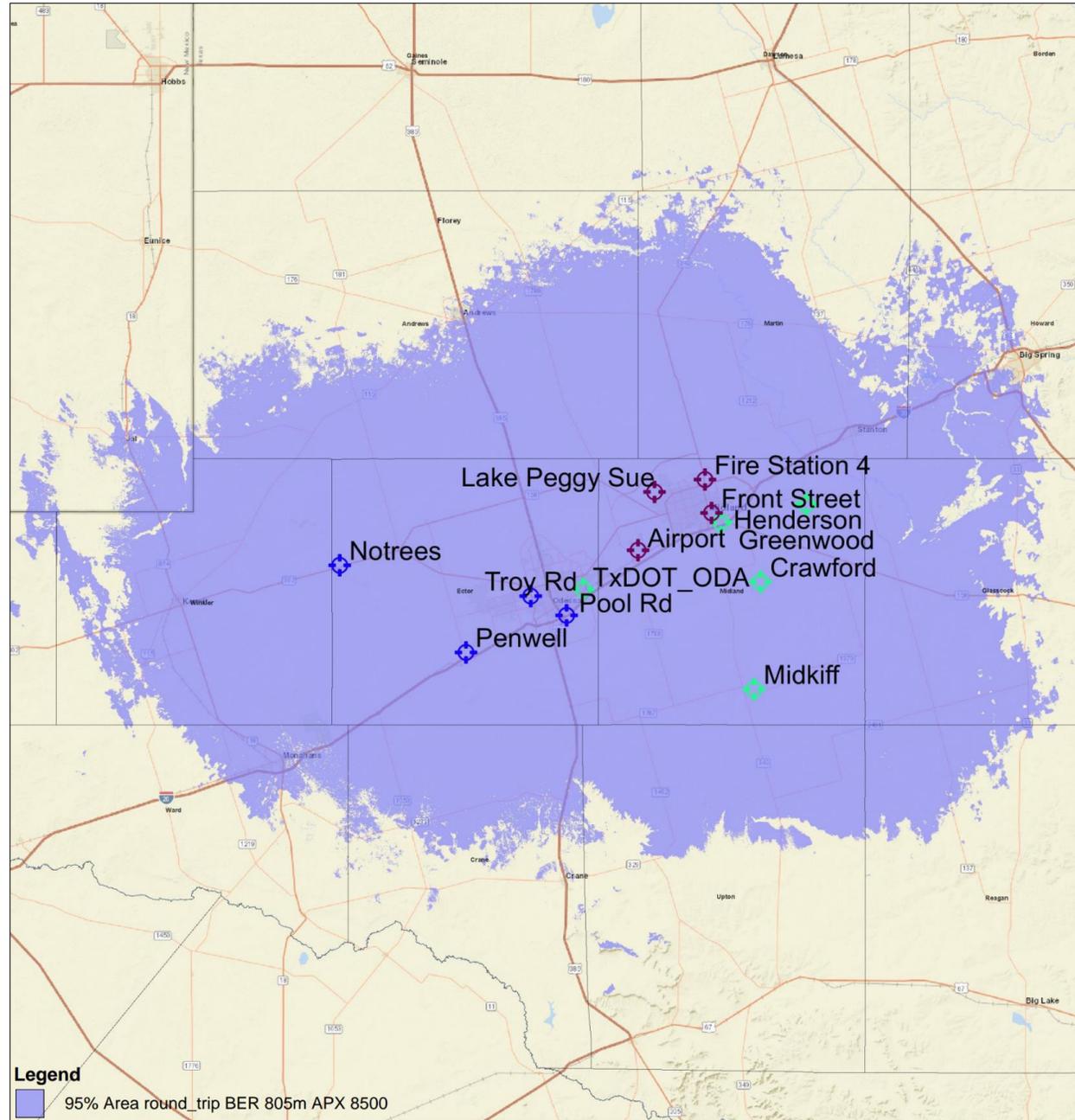
ESSENTIAL COMMUNICATION. EXCEPTIONAL SERVICE.

Dual-knob, single-band portable radio.



Mobile Coverage

- The mobile coverage area is the range vehicle-mounted radio devices (mobile radios) can communicate.
- These radios usually have higher power outputs compared to portable units.



APX 6500

RELIABLE.
RESPONSIVE.
READY FOR
THE STREETS.

Single-band
mobile radio.



APX 8500

UNLIMITED MOBILITY.
MAXIMUM CONNECTIVITY

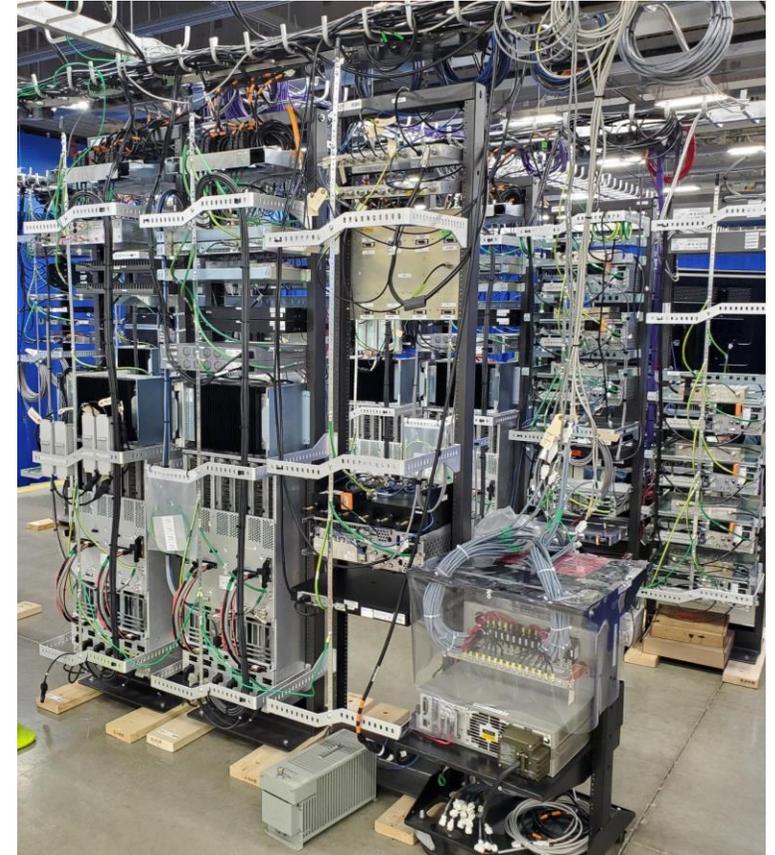
All-band mobile radio available in
high power and mid power versions.

Project Accomplishments

- Finalized System Design Review and Approval
- Factory Staging and Acceptance Test Completion
- Shipment and Delivery of Infrastructure Equipment to Midland
- Completion of FCC, Environmental, and Regulatory Approvals
- Completion of Construction Permits
- Collaborative Engagement with City Departments for Custom Code-plug Configuration
- Development and Execution of MOUs and ILAs for Interoperability Agencies



Factory Staging and Acceptance



Project Upcoming

- Installation and deployment of Infrastructure Equipment
- Finalize Development of Custom Radio Code plug
- Installation of Interoperability Fiber Circuits
- Local Staging & Testing of Backhaul Sub-system
- Completion of Logging Recorder and CAD Interfaces
- Development of a System Cutover Plan

Project Funding

- The system and services from Motorola Solutions, Inc. have a cost of \$16,652,921.
- A project contingency of \$835,000 is added to this, making the final total \$17,487,921.
- \$11 million is covered by funds from the American Rescue Plan Act (ARPA).



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MISSION

Deliver exceptional services and promote a high quality of life and place ALL for our citizens.