

ORGANIZATION

Capital Projects

Project	0008 Repeater Upgrades		
Department	911 Emergency Telephone System		
Version	1. Provisional Budget	Year	2021

Description

Description

The existing radio dispatch system uses analog repeaters, interconnects and handheld/Mobile Very High Frequency (VHF) Commercial band radios. This system serves as the primary dispatch, communications network, and emergency channel for safety and response. The proposal is to contract an industry expert to complete a n of current equipment and develop a Master Plan to be implemented over several years. This allows the PRRD to immediately replace the most critically needed radio infrastructure identified in the plan, identify and prioritize the items needed to be replaced in following years, and ensure that the system can be operated under the current analog network while being upgraded to the P25 Digital Radio Network.

Benefits

The existing system is dire need of upgrades to ensure the safety of first responders as the VHF system is often the only communications link in the event of an accident. Repairs to critical infrastructure this year will ensure system integrity for responders. Digital/P25 digital communications allow multiple talk paths (channels) to exist on a single radio frequency, use of Bluetooth, and Wi-Fi to eliminate dead spots and allow communications district wide. P25 Digital communications is the gold standard for emergency VHF equipment. Completion of a Repeater Plan allows the PRRD to work towards upgrading to P25 over a period of several years while maintaining the existing analog network and better utilizing tax funds responsibly and still increase network safety and stability.

Risks

The Master Radio Repeater Plan may identify equipment that will need replaced/repared outside of their normal life cycle, however this has been considered based on reserves.

Budget

	Total	2021	2022	2023	2024	2025
Expenditures						
All Expenditures						
Furniture, Fixtures, Equipment	1,288,098	491,736	390,194	406,168		
	1,288,098	491,736	390,194	406,168		
Expenditures Total	1,288,098	491,736	390,194	406,168		
Funding						
All Financing						
Requisition	191,736	191,736				
Short-term Debt Proceeds	796,362		390,194	406,168		
Capital Reserve	300,000	300,000				
	1,288,098	491,736	390,194	406,168		
Funding Total	1,288,098	491,736	390,194	406,168		

Attributes

Attribute	Value	Comment
Department	911 Emergency Telephone System	
Approval Status	Approved	
Asset Classification		
Project Type		
Year of Initiation	2021	