



MEMORANDUM

INNOVATION & TECHNOLOGY

To: City Council
Through: Ben Williamson, City Manager
From: Joey Brock, Director of Innovation and Technology
CC: Jawaria Tareen, Deputy City Manager
Date: August 19, 2025
Subject: Fiber Optic Network Consulting/Audit

Overview

The City of Farmers Branch maintains a fiber optic cable network originally installed over 20 years ago in partnership with Carrollton-Farmers Branch ISD. This network connects City facilities and provides critical internet, voice, and data services.

Unfortunately, detailed records of the cable's placement and condition were not created, and industry-standard tracer wires were not installed. This makes it difficult to locate the cables during construction or utility work, increasing the risk of accidental damage and limiting our ability to expand the network.

Purpose of the Project

Before expanding the network to support traffic signals and utility systems, we need an accurate, up-to-date inventory of our existing fiber infrastructure. This project will:

- Precisely locate and document existing fiber lines.
- Assess cable condition and characteristics.
- Add visible, standardized surface markers.
- Deliver GIS-compatible digital records for long-term asset management.

Benefits

- Improve network reliability and bandwidth between City facilities.
- Reduce risk during construction or utility excavation.
- Maximize the use of existing infrastructure and plan for future expansion.

Financial Impact

- Total cost will not exceed \$110,000.