



Hamburg Township Public Safety Department

PO BOX 157 · HAMBURG, MICHIGAN 48139
PHONE: (810) 231-9391 · FAX: (810) 231-9401

EMAIL: HATP@hamburg.mi.us

RICHARD DUFFANY, DIRECTOR OF PUBLIC SAFETY



TO: Hamburg Township Board
FROM: Chief Richard Duffany
DATE: November 26, 2024
RE: Agenda Item Topic: **Fiber Optic Project Proposal**
General Ledger #: **TBD**

Number of Supporting Documents: **3**

NEW/OLD BUSINESS: **XXX** New Business

_____ Old Business – Previous Agenda #:

Requested Board Action

- Motion to approve moving forward with the fiber optic project proposal for Fire Station 11 and Fire Station 12, as outlined in the attached quotes from Livingston County IT, at a cost of \$20,339.11, payable to Livingston County IT.
- Motion to allocate the costs of the Livingston County IT portion of the proposal (\$20,339.11) and the additional costs (directional boring and annual fees) between Fire (Fund 206) and General Fund/IT (Fund 101) as determined by the Township Board.

Background Information

Livingston County IT is currently upgrading the fiber optic lines throughout the county. Part of this project has been to add a larger fiber line down M-36 through Hamburg Township. This phase of the project is nearing completion. As a result of this, the Township has the opportunity to add fiber connections to both Station 11 and Station 12. Station 11 currently gets its Computer-Aided Dispatch (CAD) system via a fiber line from the Livingston County EMS station located on M-36 near Station 11. This EMS station is already getting an improved connection from the new fiber lines, but the connection from the EMS station to Station 11 will continue to utilize the current aging lines.

Station 12 obtains all of its data from the Hamburg Township Police station. The lines are both above and below ground and are old lines from Pinckney Community Schools. The lines running from the police station to Station 12 are owned by the Township. As such, if any of the lines were cut, either from faulty digging or a downed pole, Station 12 would be without internet and the Township would be responsible for the cost of the repair.



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Providing fiber to both fire stations is beneficial to the Township as it will provide redundancy at Station 12, allowing Station 12 to be independent while also providing back feed to the police department should the fiber connection fails there. Additionally, Station 11 houses the Township's Emergency Operations Center (EOC) which requires a reliable data feed in times of emergency operations.

In July, Livingston IT presented a quote to supply a fiber line from M-36 to Station 12. They would conduct all of the work, but it would cost \$32,764.18. This cost was considered too high and a meeting was held between County IT and the Township. It was suggested that the Township could use a company that is already on contract for the directional boring and save money. County IT agreed to re-quote the project, and to add Station 11 into the quote. On November 13, 2024, the Township received the following quote from Livingston County IT:

- Station 11
 - Constructing a lateral from county network to Hamburg Township Fire Dept Station 11, located south right-of-way of 3666 East M-36 Pinckney, Michigan 48169.
 - Pull new fiber optic cable from the existing handhole (HH-427) in front of Fire Department Station 11 to the existing entry point located in the back of building. Directional boring and duct install to be provided by others.
 - Install new building entry and follow existing internal path to existing fiber panel.
 - Install new fiber optic termination panel in existing equipment rack. Terminate and test four (4) fibers allocated to network.
 - Total Cost: \$10,050.40

- Station 12
 - Excavate and expose existing duct located at Hamburg Township Fire Dept Station 12, 10100 Veterans Memorial Drive Whitmore Lake, Michigan 48189.
 - Furnish and install new handhole along county network in front of station.
 - Connect existing conduit to street at newly placed handhole. Install fiber to open conduit.
 - Install termination panel along with terminate and test four (4) fibers allocated to network.
 - Total Cost: \$10,288.71

- Total cost for both stations – without directional boring: **\$20, 339.11**



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In addition to the initial \$20,339.11 cost, there are two additional cost considerations:

- Directional Boring cost – IT Director Randazzo estimates that this cost will be less than \$10,000.
- Annual Maintenance and Upgrade Fee – Per Livingston County IT, this fee is estimated at \$5,000 per year with an annual increase of 2.5%.

Budget Impact

The cost of this project is not contained in the approved FY 24/25 budget. As such, funds for this project will have to be utilized from reserve accounts of the involved departments (Fire and General Fund/IT) as determined by the Township Board.

Respectfully,

A handwritten signature in cursive script, appearing to read "Richard Duffany".

Chief Richard Duffany
Director of Public Safety



CHANGE ORDER			
Change Order No.:	22-304-013A rev2	Date of Issuance:	November 13, 2024
Contractor:	eX2 Technology, LLC	Date of Agreement:	May 8, 2023
Contract For:	Fiber engineering, equipment, materials and construction of fiber network		

This Change Order to the Master Services Agreement (“Agreement”) is made by and between EX2 Technology, LLC (“Contractor”) and Livingston County, Michigan (“County”). Except as amended herein, all other terms and conditions shall remain in full force and effect.

Exhibit A, Scope of Work

This Change Order covers the costs associated with:

- Constructing a lateral from county network to Hamburg Township Fire Dept Station 11, located south right-of-way of 3666 East M-36 Pinckney, Michigan 48169.
- Pull new fiber optic cable from the existing handhole (HH-427) in front of Fire Department Station 11 to the existing entry point located in the back of building. Directional boring and duct install to be provided by others.
- Install new building entry and follow existing internal path to existing fiber panel.
- Install new fiber optic termination panel in existing equipment rack. Terminate and test four (4) fibers allocated to network.

This includes additional design, furnishing materials where specified, and installation in accordance with the Agreement.

Exhibit B, Pricing and Schedule of Values

Change Order **22-304-013A rev1** increases the Contract Price \$10,050.40

Exhibit C, MSA Project Schedule

No impact

Exhibit E, Contractor Provided Insurance and Bonds

The Change Order does not modify the Bond Schedule values and breakout shown in the Agreement.

Total Sum of Change Order: \$10,050.40

IN WITNESS WHEREOF, the parties have caused this Change Order to be executed by their duly authorized representatives as of the day and year set forth below.

Contractor: eX2 Technology, LLC

Owner: Livingston County, Michigan

By: _____
(Signature)

By: _____
(Signature)

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____



CHANGE ORDER			
Change Order No.:	22-304-013B rev1	Date of Issuance:	November 13, 2024
Contractor:	eX2 Technology, LLC	Date of Agreement:	May 8, 2023
Contract For:	Fiber engineering, equipment, materials and construction of fiber network		

This Change Order to the Master Services Agreement (“Agreement”) is made by and between EX2 Technology, LLC (“Contractor”) and Livingston County, Michigan (“County”). Except as amended herein, all other terms and conditions shall remain in full force and effect.

Exhibit A, Scope of Work

This Change Order covers the costs associated with;

- Excavate and expose existing duct located at Hamburg Township Fire Dept Station 12, 10100 Veterans Memorial Drive Whitmore Lake, Michigan 48189.
- Furnish and install new handhole along county network in front of station.
- Connect existing conduit to street at newly placed handhole. Install fiber to open conduit.
- Install termination panel along with terminate and test four (4) fibers allocated to network.

This includes additional design, furnishing materials where specified, and installation in accordance with the Agreement.

Exhibit B, Pricing and Schedule of Values

Change Order **22-304-013B rev2** increases the Contract Price \$10,288.71

Exhibit C, MSA Project Schedule

No impact

Exhibit E, Contractor Provided Insurance and Bonds

The Change Order does not modify the Bond Schedule values and breakout shown in the Agreement.

Total Sum of Change Order: \$10,288.71

IN WITNESS WHEREOF, the parties have caused this Change Order to be executed by their duly authorized representatives as of the day and year set forth below.

Contractor: eX2 Technology, LLC

Owner: Livingston County, Michigan

By: _____
(Signature)

By: _____
(Signature)

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____