

Peg/Chris,

Andrew recently completed a cost estimate process to add fiber to city buildings/locations that do not currently have it. Knowing that discussions have come up before for the library needed fiber, we asked the contractor (Koch) to submit an estimate for the library. The details of that are below, Andrew would potentially add \$500 to it for racking. Please review and let Andrew and I know if this is something the library has funds for and wants included in what we award the company for this year.

**Library:**

The following proposal is for placing a 1 ¼" inner duct from the hand hole at South Washington Street and Emmet Street to the south side of the library new addition data room. Route to be determined when Diggers Hotline locates are completed. The wall will be core drilled into the data room and a 1¼" rigid conduit and pull box installed outside. A 12 fiber cable and locate wire will be installed and terminated in a rack mounted panel in the first floor data closet. All 12 fibers will be spliced in the hand hole. The total for this proposal is \$13,871.53.

Thank you,

Emily McFarland

Mayor, City of Watertown

Phone: (920) 262-4000

Good evening Mayor McFarland and Mr. Day: Can someone (Andrew?) give me a very short explanation of the benefit this fiber connection would add to the library? The library board may have questions on what this item is, and I'd like to be equipped to try to answer.

Peg: Please place on agenda for 02/08 library board meeting.

Thanks -Chris

*Attorney Christopher John Koppes*

**Bender, Larson, Chidley, Koppes & Associates, S.C.**  
***138 Hospital Drive; Suite 100***

Chris,

I would be happy to. The primary affect would be improved connectivity and bandwidth between the Library and City Hall.

Currently, the Library's telephones, the Town Square camera system, and the future improvements to the Library's camera system, which would allow the Police Department to view exterior cameras all of the time and interior cameras during emergency situations, all share a single connection back to City Hall. This existing connection has limited bandwidth, so viewing one of the camera systems may cause call quality issues for the phone system.

The new fiber connection would be faster, more reliable, and allow for more traffic without congestion. Library staff should notice call quality improvements, and the City network could be configured as a redundant backup to the existing fiber network at the Library.

This project was originally included in the fiber network plans, and there is an existing run of fiber to the corner of Emmet and South Washington streets. This part of the project would extend that either north or east towards the Library. The original plan would have had the fiber ran in conduit to the penthouse on the top of the Library, but this new plan would instead bring it through the wall directly into the network closet at ground level. This new plan reduces the cost and eliminates a large, three-story conduit running up the exterior of the Library.

The fiber will need to be terminated in a rack, and, as Emily mentioned, the cost for a new, wall-mounted rack for the fiber is around \$500. Given that we are going directly into the network closet which already posses racks, and if the Library Board approves, we could instead use the existing rack space and save on that cost as well.

Please let me know if there are any additional questions you have about this project.

Thanks,

**Andrew Day**  
Information Technology Coordinator  
Administration Department  
City of Watertown  
(He/Him)