

Summary of current known fiber projects for 2020

Pricing for Fiber Optic Support Services have already been bid on Kane County Bid 23-018 for Fiber Optic Support Services. Bid 23-018 is valid for 2018, 2019 and 2020.

Naperville 2nd (redundant) fiber connection

This project is being done with the remaining \$122K from the Diehl/Eola project from (originally) 2018 and spanned into 2019. We were not able to complete the work with Naperville in 2019 so this carried over to 2020. There is a separate account number that has the \$122K listed on the resolution. We backup 911 and public safety radio systems with Naperville, and have had two previous fiber outages that have resulted in outages for the Naperville Fire Departments that use the grant funded video conferencing system (we host the main system). The 2nd fiber connection will provide a redundant connection.

Fiber to Fox Valley Water Tanks

The Fox Valley Water Tanks are located at 3244 Richland Court. This site has four tanks holding finished water, so the Water Plant has this site as a priority for being put on the network. Once fiber is installed, IT will put this site on the Water Security cwdm ring and will work with the Water Plant to get security cameras and building access installed.

Fiber Audit remediation part 1 of many

NTI did the audit of the City's 82+ miles (at that time) of fiber in 2018. During that audit, every hand hold and fiber patch panel was audited. This is the first remediation list for issues that were found in the field. As we continue to use and add to the fiber infrastructure, we are also finding more areas that will need to be remediated, and will be brought to City Council as subsequent remediation parts. This project is installing tracer wire, locate pedestals and ground rods at various hand holds.

ATC Fiber tie for Cameras

This project is to place a cabinet with City fiber in it at the center median of the RT25 ATC Train Station parking lot. The existing camera system was installed in March/April of 2005. When monies are allocated to replace these cameras, having the fiber in a central location of the parking lot will facilitate hooking the new cameras to the fiber back haul. This is a better expense of money than repairing the existing old copper system that is failing, and should be a more reliable system to help prevent lawsuits to the City

Lincoln Lot Fiber

This project was scheduled for 2019 but we ran out of time, so the project has been carried over to 2020. This project is to run fiber to three cabinets in the Lincoln Lot Train Station parking lot medians. This system was installed in the March/April 2005 time frame, originally on DSL line and then moved to wireless to the Vine Street mono pole and hut. This system goes down frequently when wireless radios are damaged from bad weather. Putting the fiber at the location will facilitate moving a replacement system to fiber instead of wireless and should be more reliable and help to prevent lawsuits to the City.

Animal Control/Water & Sewer loop remediation

The Animal Control site is currently on a loopback from the corner of River Street and Prairie Street. Water & Sewer is currently a lateral off of Animal Control, as is the Harris Radio hut for the Public Safety Radio tower at Water & Sewer. This lateral exposes those sites to complete failure if the fiber is cut at any place on River Street south of Prairie. This project will put the Animal Control site, which is the cwdm hub for Water & Sewer and the Harris Radio Hut, on a true redundant fiber ring connection.

E-Lot Parking Lot camera fiber hookup

The recently re-designed E-Lot Parking Lot east of Broadway between New York and Galena is being evaluated for security cameras. This project is to provide a cabinet with fiber in it for the camera connections to land in.

ATC BNSF Utility Room fiber panel relocation

The existing fiber panel in the ATC BNSF Utility Room that was installed in 2008 is now in a location behind the racks that is very difficult to get access to. When BNSF remodeled the room and added racks, we did not know the racks would be reconfigured making the City fiber panel in a hard to access location. We are going to run a new fiber lateral from the street in the third spare duct and mount a new panel in a location that we will be able to access the fiber without difficulty.

New Public Works Campus phase 1 fiber connection

The new public works campus is slated to get a salt dome and fueling station before the end of the year. This is the phase 1 project to bring City fiber to the location. There is a phase two project for 2021 to make the connection a full ring connection for redundancy. This is to get the site ready for when the Public Works Campus building is built.