

### What Is The Process?

- TCA will plow fiber to your home or business.
- TCA technicians will begin mounting new boxes on each home and business.
- TCA will schedule a time to come back to your home or business to install an ONT unit and perform some rewiring of your services.

### Will anything need to be mounted on my house or business?

All of the current TCA boxes will be removed and replaced with a small D-Mark box which will connect inside the house to an ONT. An ONT is an Optical Network Terminal with a battery backup that contains the electronics that convert a signal of light from the fiber into usable phone, cable, internet, and smart home services.

### How much "digging" will be in my yard?

In most cases there will be a small amount of digging up by the home where the conduit comes up from the ground. Across the yard TCA will use a drop plow that "knives" the conduit underground. Conduit under sidewalks will be done by hand.

### The Community Agency (TCA)

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## WHAT ARE THE BENEFITS OF FTTH?

### EXCITING NEWS FOR PRIMGHAR

TCA is in the process of installing fiber optic cable to homes and businesses in Primghar. The following information will help you better understand the fiber network, install process, and educate you on some of the terms you will hear in conjunction with this project.

#### What Is Fiber to the Home?

Fiber optics are long, thin strands of pure glass about the diameter of a human hair. Hundreds or thousands of these optical fibers are arranged in bundles called optical cables and are used to carry digital information over long distances. These bundles greatly improve the quality and performance of communications services. As your locally owned telecommunications provider, TCA is installing fiber optics, to ensure that residents continue to receive the most reliable, high quality service at an affordable rate.

#### Why is TCA investing in FTTH (Fiber To The Home)?

TCA is excited to bring you this next generation of communications technology. Our commitment to provide exceptional customer service to our customers is to constantly enhance and improve our services. FTTH offers many advantages to residential customers and businesses alike and prepares everyone to enjoy an even greater selection of communications options in the future.

#### MORE BANDWIDTH

Fiber technology provides almost unlimited bandwidth, which means it has thousands of times the transmission capacity of copper wire. Fiber optic cables carry voice, data and video signals at speeds well over 20 times faster than today's fastest high-speed data connections by using laser-generated pulses of light to transmit the signals. This allows FTTH to accommodate a wide variety of data and video applications.

#### GREATER RELIABILITY

Because the fiber optic cables are buried, customers are less likely to experience outages due to ice, storms or other external causes. Fiber optic cables are also less susceptible to glitches than traditional copper wires and can withstand the shock and vibration from inclement weather. Fiber does not conduct electricity, is not affected by heat and cold, and has a longer lifespan than copper or coax.

#### MORE SECURE

Voice and data transmissions via FTTH are more secure than when they are sent over conventional copper cable connections. The use of fiber eliminates the ability to tap, or eavesdrop, through contact with the delivery system.

#### FUTURE FLEXIBILITY

FTTH is considered "future proof" and offers the flexibility to deliver additional services in the years to come. FTTH provides the flexibility to more easily adapt to customer preference, since new products and services can be activated remotely, either permanently or on demand.

#### COST EFFICIENCY

Fiber optic cable can be made for less than the equivalent length of copper wire and is more durable. Although the FTTH project requires expenditures now, it will save money in the future while keeping us at the forefront of technology.

#### LESS EQUIPMENT

If you are a phone or high-speed internet customer with TCA, you will no longer need a modem or phonebox.

QUESTIONS OR CONCERNS  
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SMART HOME SERVICES