



STRATA
NETWORKS®

Lehi City Update

OCTOBER 26, 2022



PROJECT OVERVIEW

LEHI CITY FIBER PROJECT

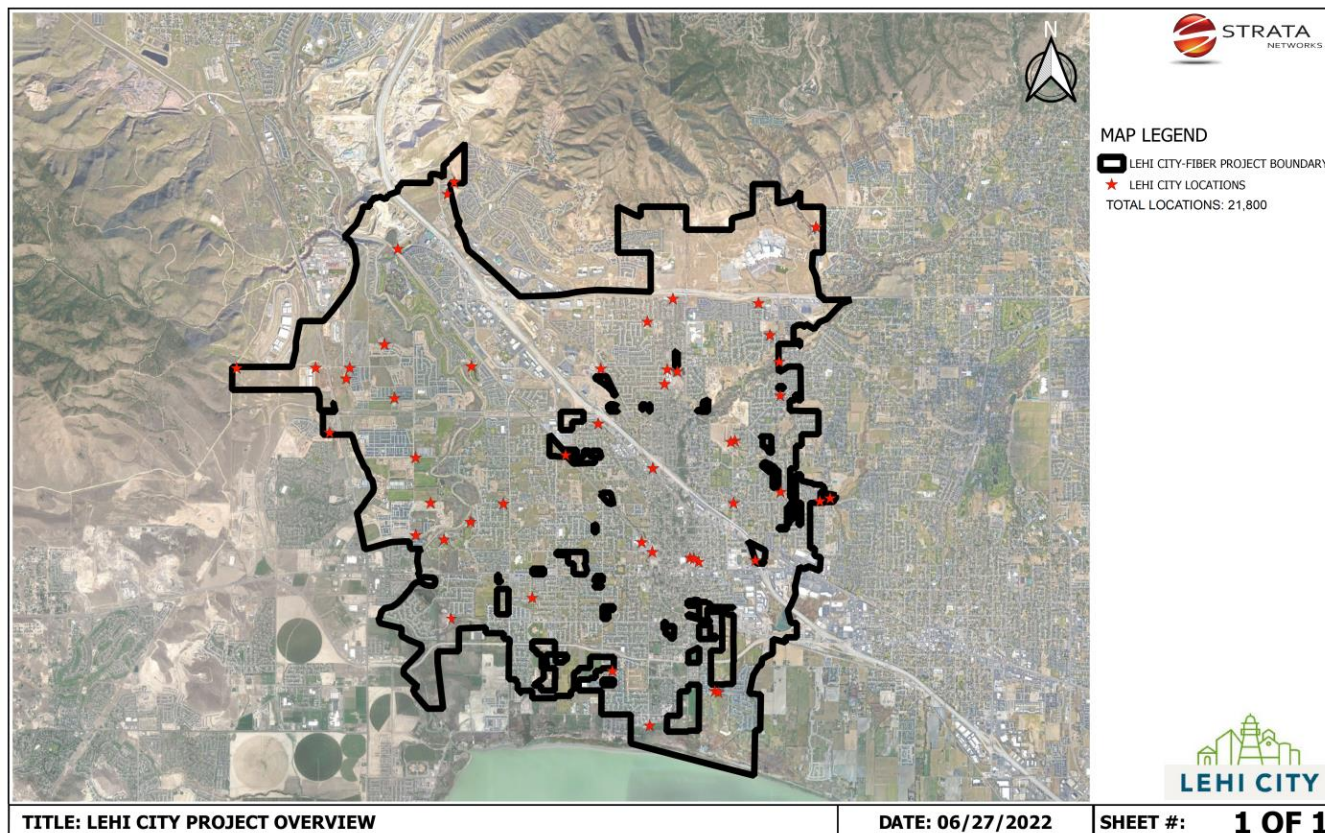


Figure 1 – Lehi City Fiber Project Overview

Notice to Proceed: 17 May 2022	Demand Aggregation Launch: 8 July 2022	Groundbreaking Ceremony: 6 September 2022	Substantial Completion: 17 May 2025
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Mainline construction consists of mainline conduit and service terminal (i.e., pedestals and vaults) placement which primarily follows city streets within city rights-of-way. This establishes the pathway for the feeder and distribution fiber cables, and service terminals provide access to cables to allow connections to individual locations.

Next, fiber is placed in conduit using highly pressurized air to float fiber optic cable through conduit runs. Once placed, fiber fusion splicing connects fiber optic cables and service terminals into the network.

Crews construct conduit runs and place a fiber drop from the service terminal at the street to a structure at each location. Drop crews primarily place conduit via a small open trench or narrow plow. During this process, conduit may be temporarily stubbed near the home until an installation is scheduled.

Technicians will perform an installation at each location, which includes installing the Optical Network Terminal (ONT) and initial provisioning which allows each customer to receive broadband internet service with an Internet Service Provider (ISP) on the Lehi City network of their choice.

There are four shelter zones in the Lehi City Fiber Project. Design and construction will begin at the Zone 1 shelter, followed by segments of the network backbone ring that will bring all four shelters onto the network. As the ring is established, infrastructure surrounding the ring will be built. Then the remaining areas will be prioritized according to a number of factors, including pre-registrations on lehi.fibertomycity.com.

ENGINEERING AND DESIGN

LEHI CITY FIBER PROJECT

Mid-Level Design

Field data collection is continuing for cabinet areas around the beginning segment of the network backbone fiber route.

STRATA and Lehi City are progressing with mid-level designs that (1) identify fiber needs to city infrastructure within the project area, (2) avoid negative impacts to existing Lehi Power aerial infrastructure, and (3) identify sensitive areas where permitting and construction have potential to affect the initial network backbone feeder route and beginning distribution areas.

Low-Level Design & Construction Documents

Construction and permit drawings are under Lehi City review for segments of the backbone feeder route. Construction and Permit drawings for the initial distribution cabinet areas will be submitted in the upcoming weeks.

Shelter Designs and Construction

Concrete foundations for the first two shelters will be completed this week. The two shelter building structures are near complete. We are anticipating transporting and installing the buildings in the next couple of weeks.

Ring and Distribution Fiber Construction

Construction on the section of network backbone ring will begin once the city review is completed and the permit is issued. This section is scheduled to begin construction within the next couple of weeks.

Weekly Meetings

The weekly meetings are successful in collaborating engineering, design, and construction. Additional meetings have also been held to discuss other topics, including fiber facilities for future developments, marketing, network operations, ISP interface and onboarding, the demand aggregation tool, and communication for public questions, comments, and concerns.

The demand aggregation tool continues to see success, with 6,140 unique addresses registered within the city limits. The STRATA marketing team provided Lehi with a still map to announce where area one is located and that it is moving into the construction phase. The map and update were posted on their Facebook as well as their website: <https://www.lehi-ut.gov/lehi-fiber-network/>.

The marketing team also worked with V6 to provide a recap video of the fiber cutting ceremony. The ceremony took place on September 6, 2022 and celebrated the partnership between STRATA and Lehi City: <https://www.youtube.com/watch?v=Oq3azIAaUW0>.



Figure 2 – Lehi City Fiber Cutting Ceremony

NETWORK OPERATIONS

LEHI CITY FIBER PROJECT

Lehi Fiber Located Within New Developments

STRATA and Lehi City are working together to develop standards and workflows that will initiate the installation of Lehi Fiber facilities as part of new development projects that are within the city limits. This effort is an attempt to take advantage of construction opportunities that allow future growth of the network and that will minimize the future construction impacts in new development areas. These standards are intended to be developed and utilized during the main construction period and possibly beyond.