# South Lakeshore (Chelan) Fiber Expansion Project
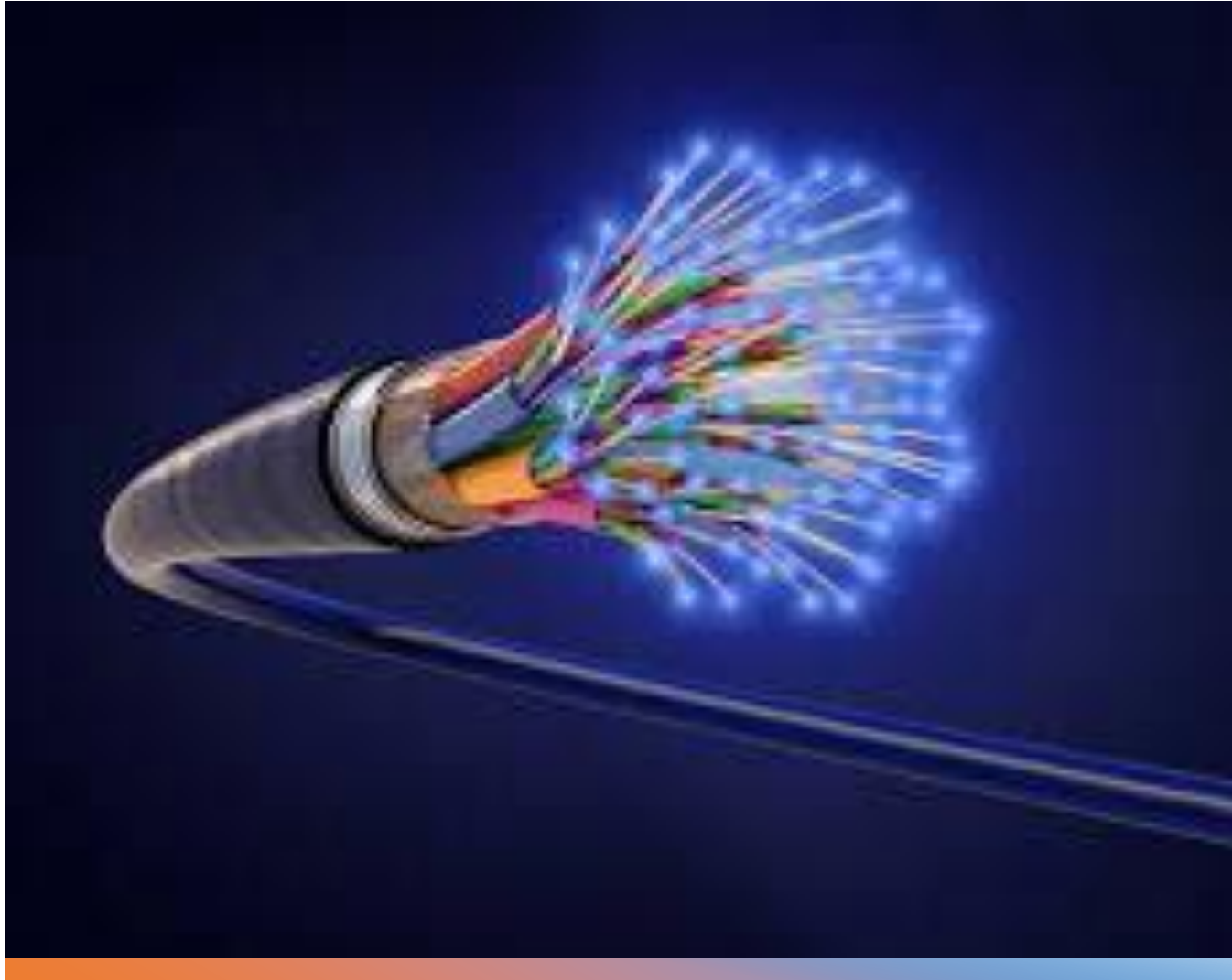
# What we'll cover today:

- Introduce the team
- Project overview and timeline
- Electrical upgrades overview
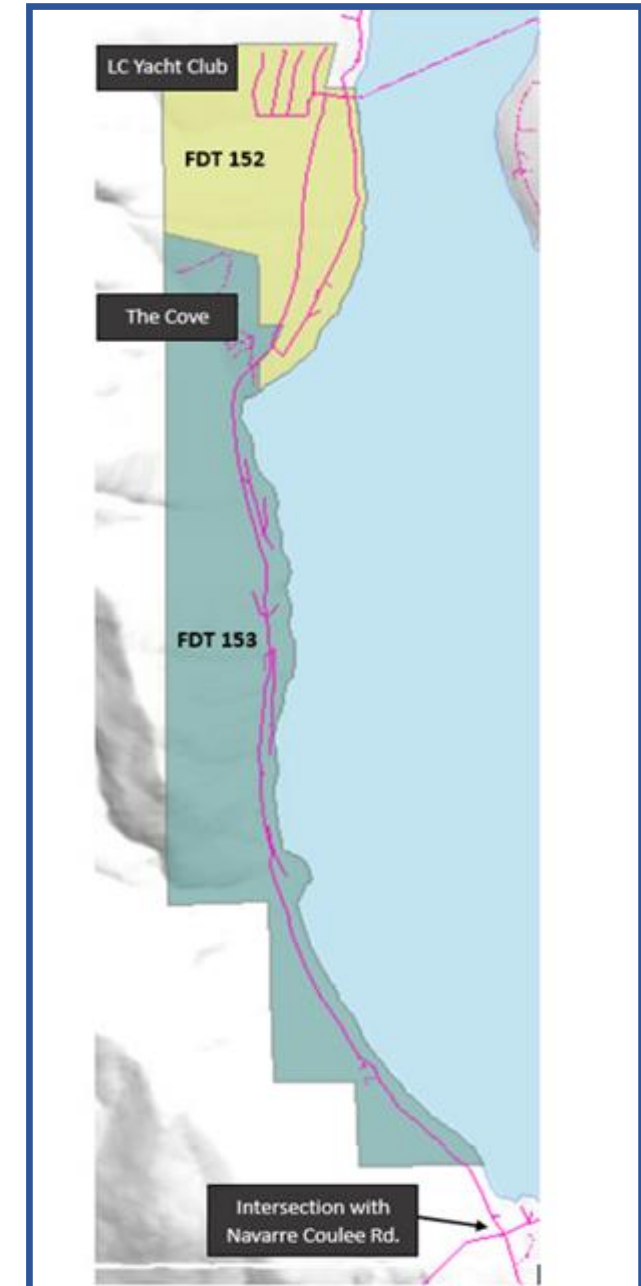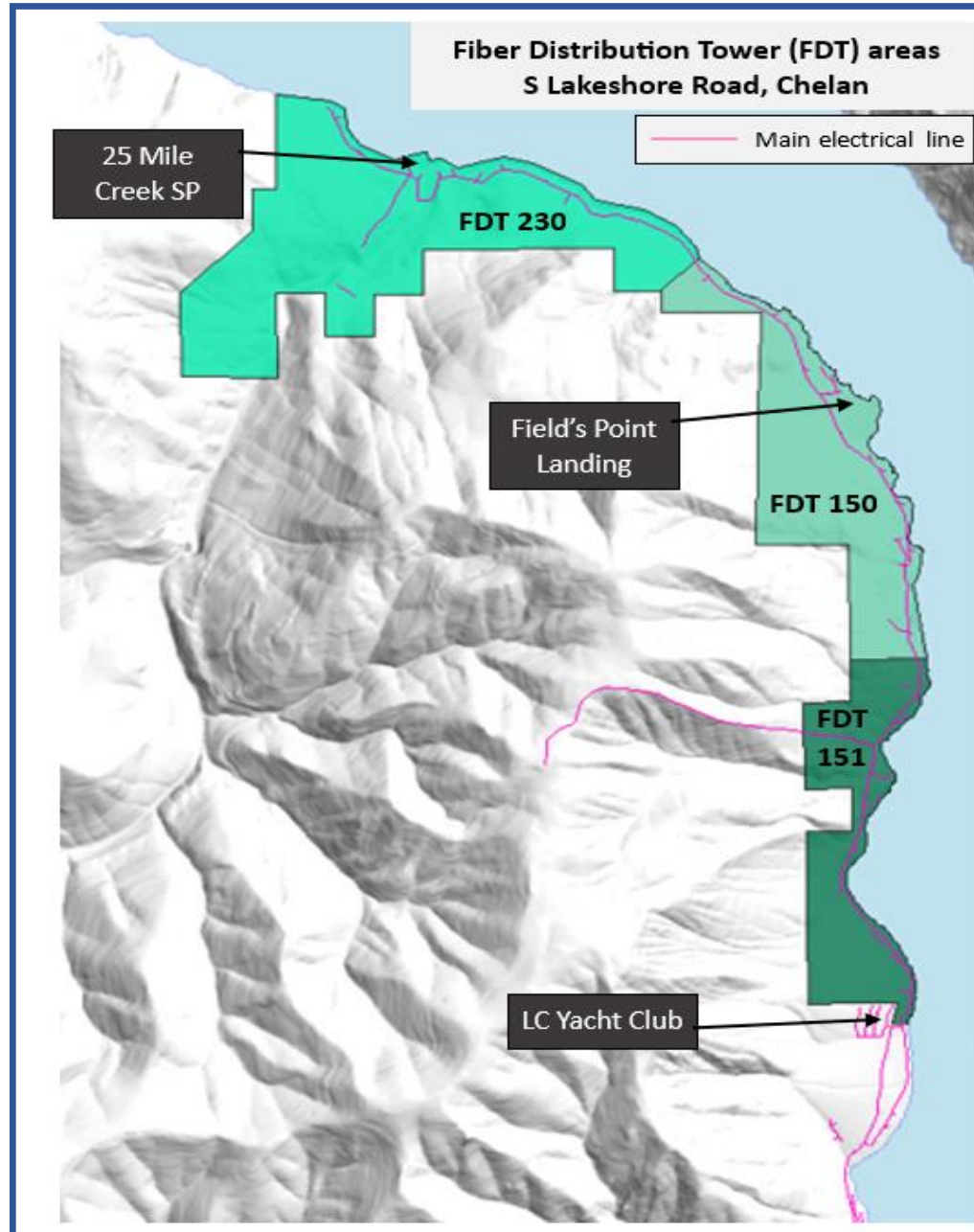- Easement acquisition and permitting
- Fiber service overview

# Chelan County PUD Fiber Expansion

- Current Fiber Expansion projects are being funded by the PUD's Public Power Benefit (PPB) program – *chelanpud.org/PPB*

- In 2022, about 80% of the county had access to fiber internet

- We continue to explore other areas for expansion, including the south lakeshore of Chelan
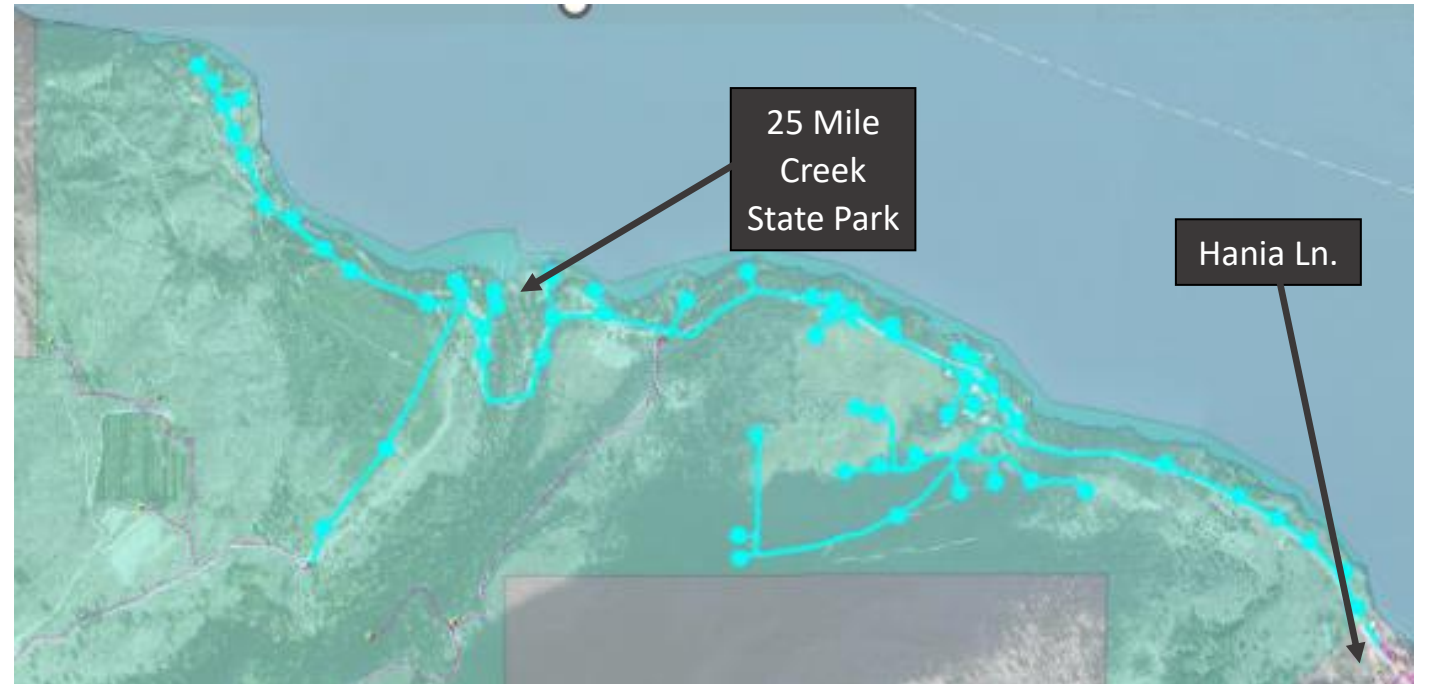
# Fiber Distribution Tower (FDT) Service Areas



Fiber Distribution Tower (FDT) areas
S Lakeshore Road, Chelan

# FDT-230 – Project Scope

The **scope of this project**, includes Fiber network expansion in these areas:
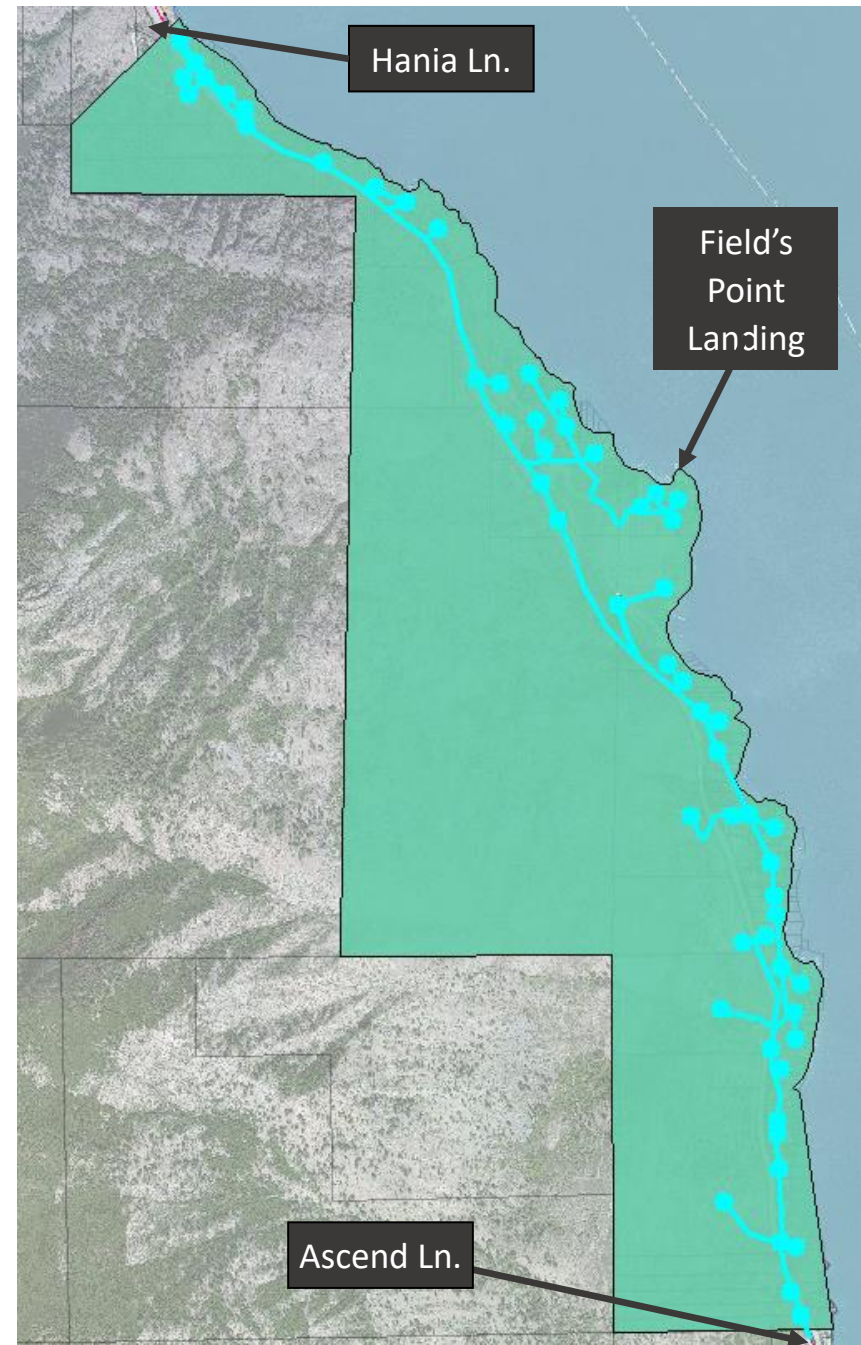
- Along S Lakeshore Rd.

- From Hania Ln. north to the end of the line

- About ½ mile up Shady Pass Rd.

- Excludes Hale Rd.

# FDT-150 – Project Scope

The **scope of this project**, includes Fiber network expansion in these areas:

- Along S Lakeshore Rd.

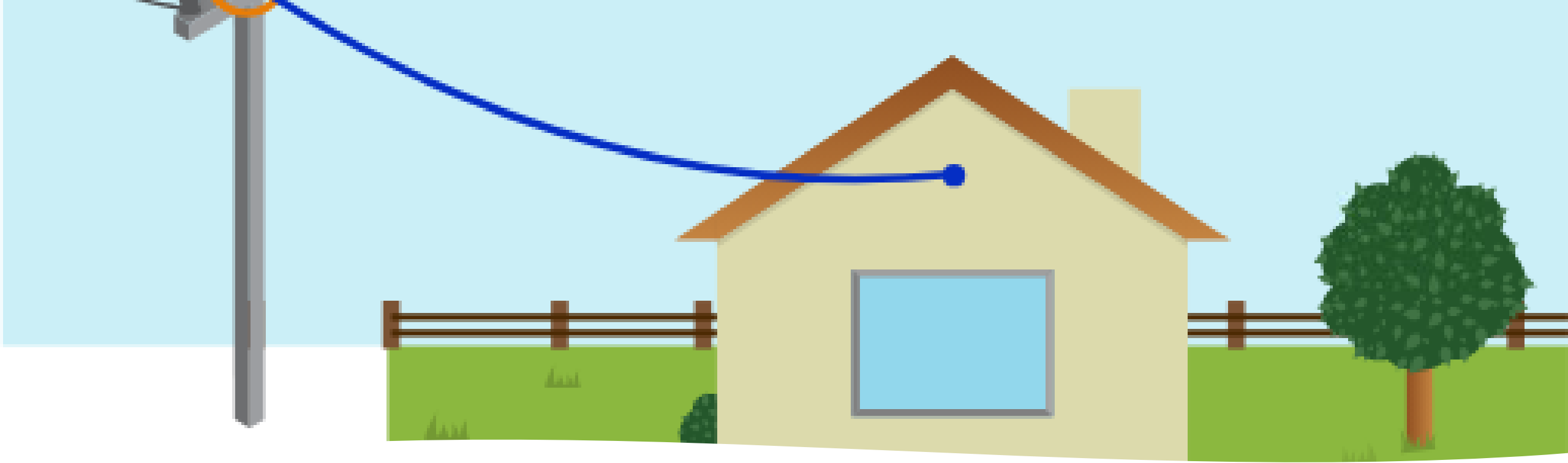- From Ascend Ln.

- North to Hania Ln.

# FDT-151 – Project Scope

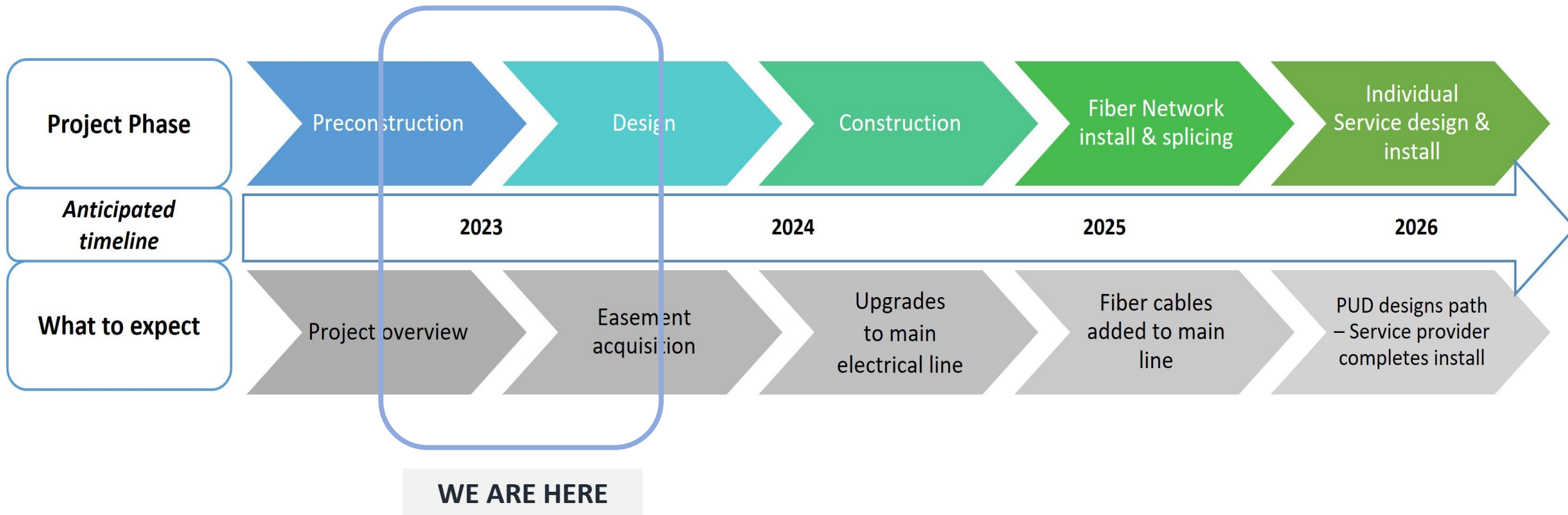The **scope of this project**, includes Fiber network expansion in these areas:

- Along S Lakeshore Rd.

- From north edge of LC Yacht Club

- North to Ascend Ln.

- Does not include LCYC – which is in FDT-152 (south)



Ascend Ln.

LC Yacht Club

- It takes a lot of planning and coordination to extend the fiber network and serve individual homes and businesses
- These projects are multi-phase and take multiple years
- We must first upgrade the electrical system before fiber cables can be added
- It will take some time between now and when fiber service will be connected

# How does the PUD Expand the Fiber Network?

| | | | | | |
|---|---|---|---|---|---|
| **Project Phase** | Preconstruction | Design | Construction | Fiber Network install & splicing | Individual Service design & install |
| *Anticipated timeline* | 2023 | | 2024 | 2025 | 2026 |
| **What to expect** | Project overview | Easement acquisition | Upgrades to main electrical line | Fiber cables added to main line | PUD designs path – Service provider completes install |

**WE ARE HERE**

**Preconstruction**

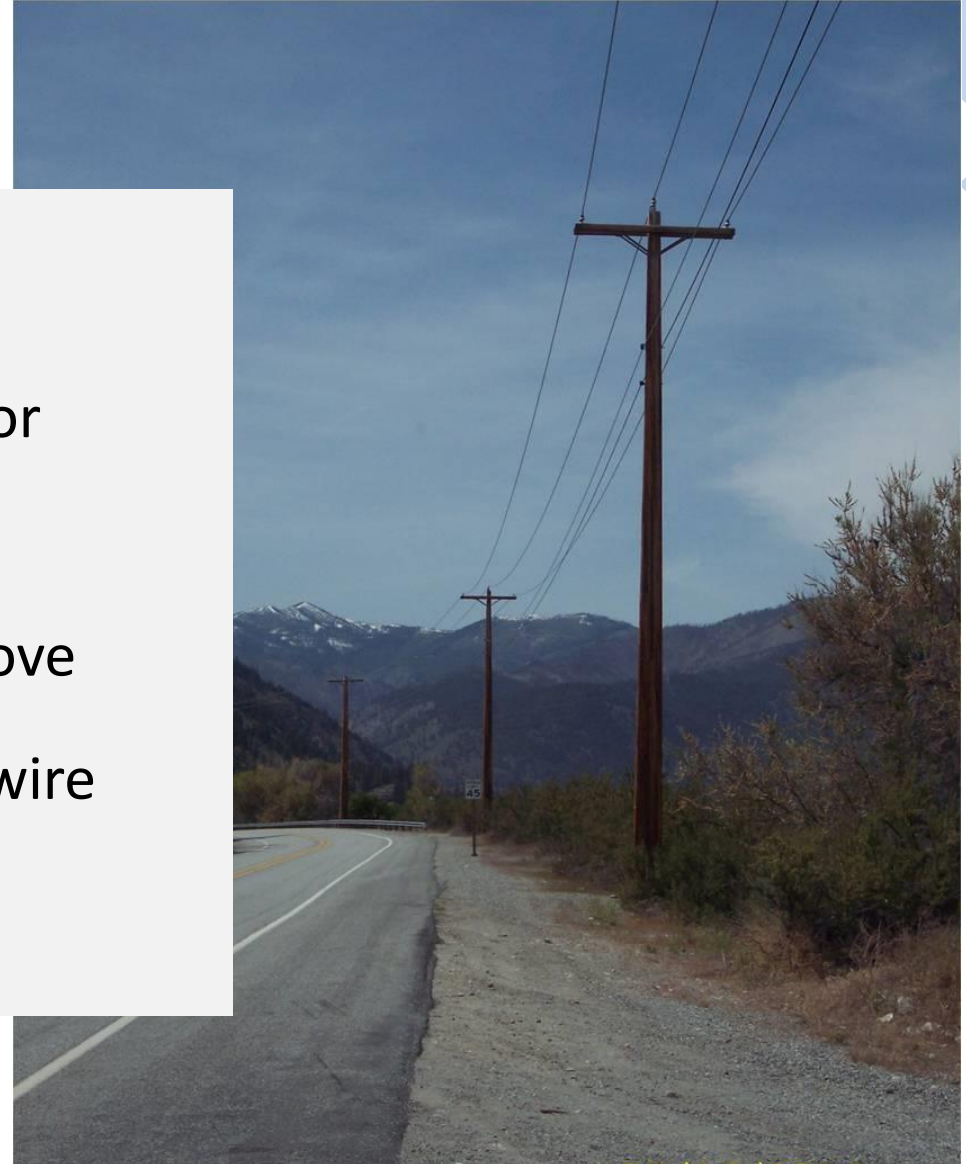**Design**

**Construction**

**Fiber Network install & splicing**

**Individual Service design & install**

- Evaluate poles
- Plan for adjustments or replacements
- Pole locations may move
- Poles may be taller& wire height may change

Preconstruction

Design

Construction

Fiber Network install & splicing

Individual Service design & install

- Design the route for the primary line
- Review property rights and **seek easements**
- Apply for permits

```
Preconstruction
   ↓
Design
   ↓
Construction
   ↓
Fiber Network
install & splicing
   ↓
Individual Service
design & install
```
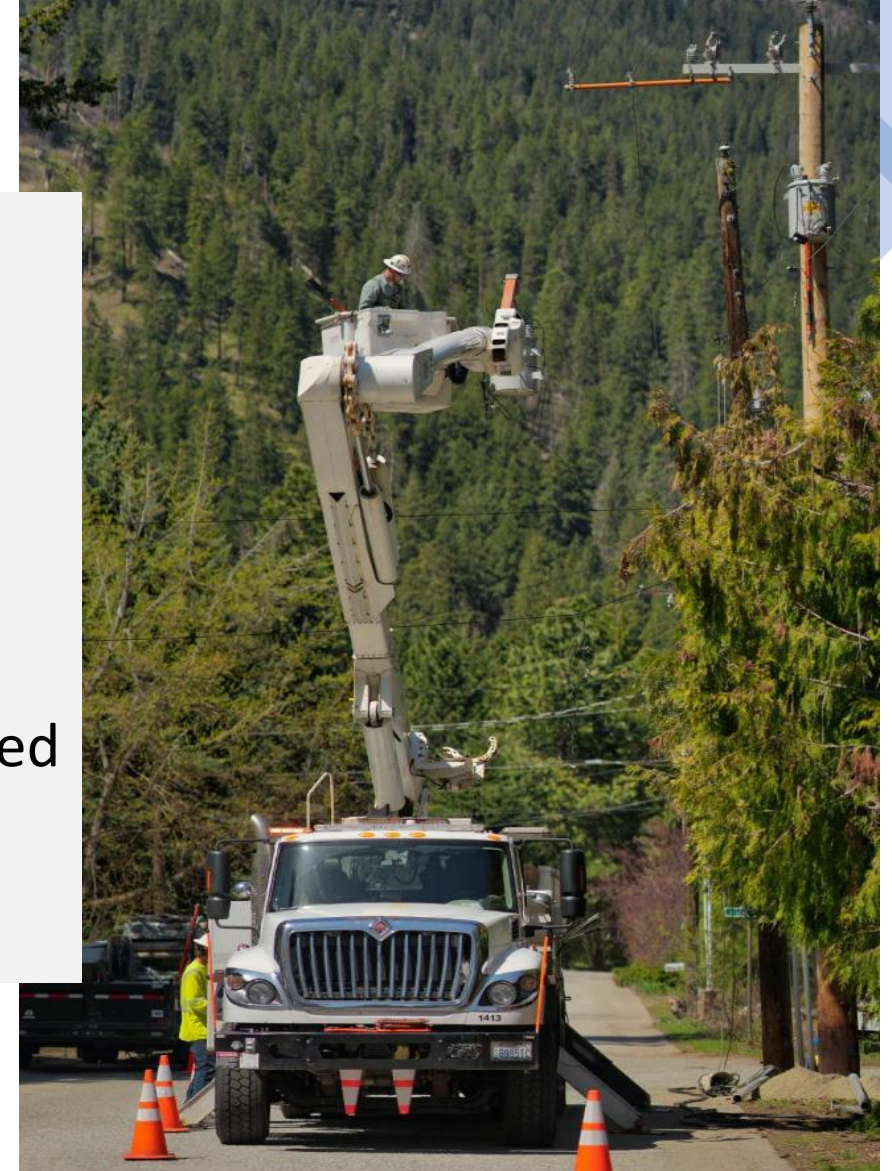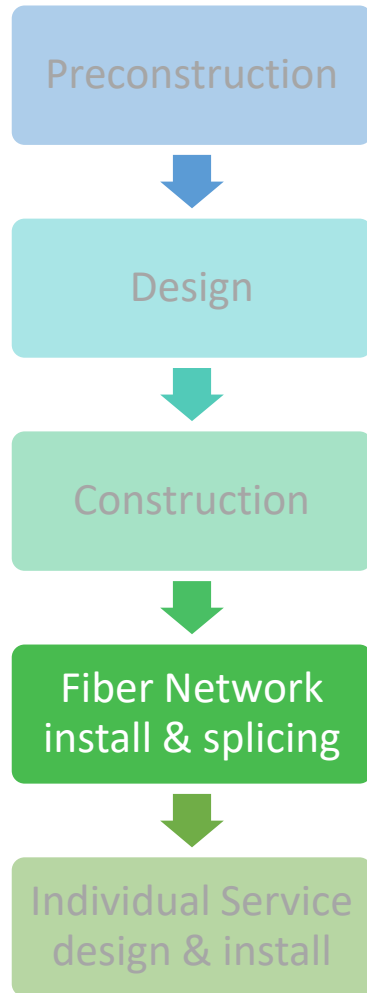
- Upgrade the primary electrical line
- Replace or reframe poles
- Transfer wire
- Old poles will not be removed right away

Flowchart (left column):

Preconstruction
↓
Design
↓
Construction
↓
**Fiber Network install & splicing**
↓
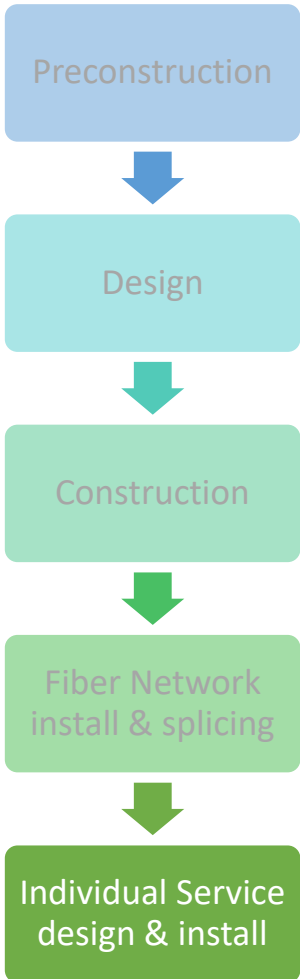Individual Service design & install

- Install main fiber-optic cables on the primary line
- Install service terminals in neighborhoods
- Splice main-line fiber cables together

# Individual Fiber Service

**Preconstruction**

**Design**

**Construction**

**Fiber Network install & splicing**
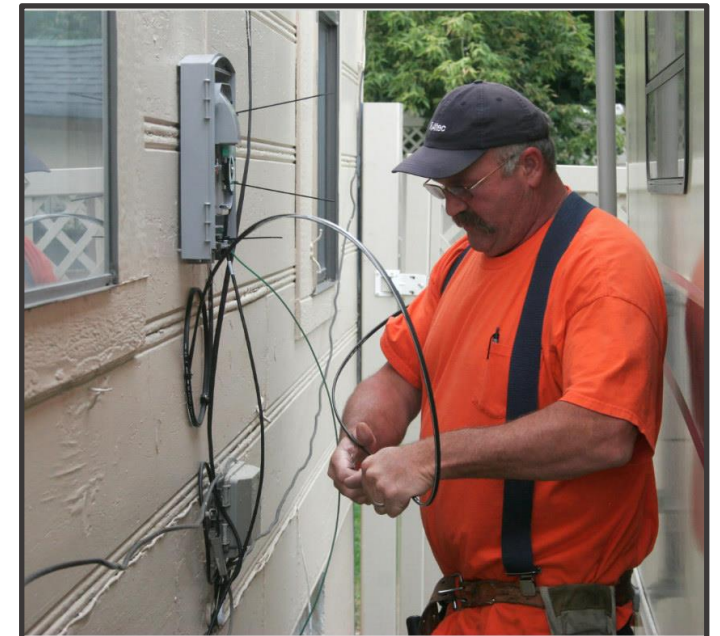
**Individual Service design & install**
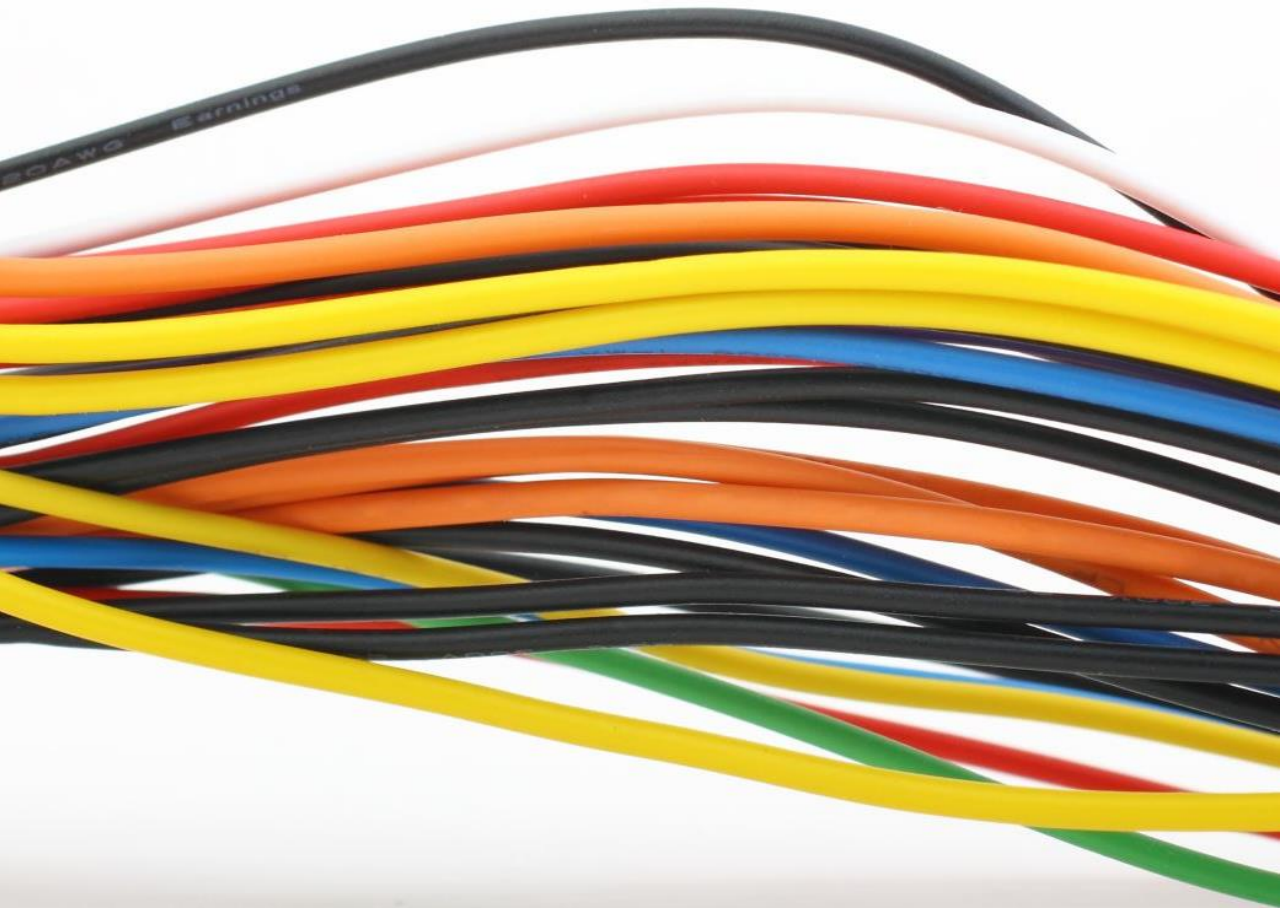
## Design

- Work is performed on the **secondary line**

- *The secondary line connects individual services to the primary line*

- Adjustments to the secondary line may be needed

- The PUD will receive orders directly from the service providers *(chelanpud.org/Fiber)*

- PUD designs the path to extend fiber to homes and businesses



## Install

- PUD extends the service line and attaches equipment

- Service provider will complete the remainder of the installation

# Resources

- Fiber Department:
  - [Chelanpud.org/Fiber](Chelanpud.org/Fiber)
  - [fiber@chelanpud.org](mailto:fiber@chelanpud.org)
  - 509-661-4151
- General Questions:
  - [Chelanpud.org/SLakeshoreFiber](Chelanpud.org/SLakeshoreFiber)
  - [customeroutreach@chelandpud.org](mailto:customeroutreach@chelandpud.org)
  - 509-661-8563

Questions?