Fiber Deployment – a low impact approach

An introduction to microtrenching

Feb
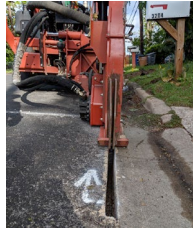**2023**

The pathway to possible.

Agenda

1. MicroTrenching Overview
2. MicroTrenching Reinstatement
3. Los Angeles MicroTrenching
4. Q&A

Microtrenching - an innovated and improved way to install fiber
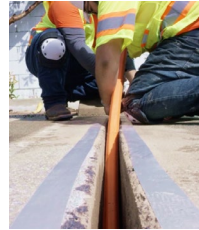
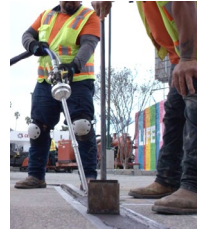Faster, smaller, and less disruptive from installation to restoration

Pre-installation

Installation

Conduit Placement
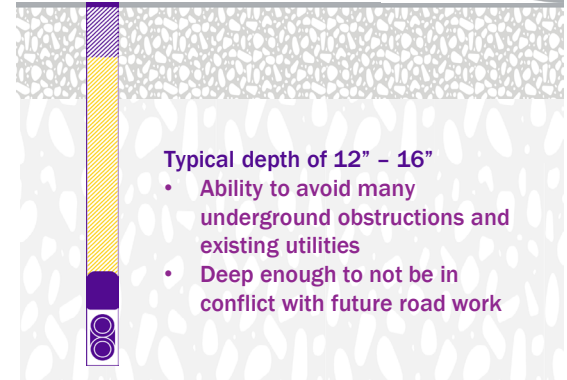

Restoration

Example of a restored microtrench

DAYS VS. WEEKS
Less construction time means less disruption

- **80% faster than traditional trenching**
- **Minimal disruption to traffic**
- **Less noise and equipment**
- **Fewer resident complaints**
- **Less waste and debris from microtrenching are vacuumed up during process**
- **Fewer new materials needed to reinstate roadway**

Typical width of 2"
- minimizes impact to your streets and municipal infrastructure

Typical depth of 12" – 16"
- Ability to avoid many underground obstructions and existing utilities
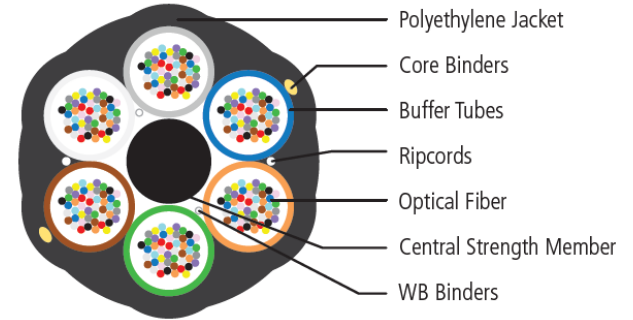- Deep enough to not be in conflict with future road work

CROWN CASTLE

Microtrenching and Microfiber

Microtrenching

Open cut trenching

VS

Polyethylene Jacket
Core Binders
Buffer Tubes
Ripcords
Optical Fiber
Central Strength Member
WB Binders

CROWN CASTLE

Microtrench Reinstatement

CROWN CASTLE

Trench Reinstatement

- **Western Materials & Design FasTrac 400 Cement**

- **Rapid setting concrete cement slurry mixed on site and applied in one pass**

- **Free flowing and self-consolidating so no compaction is required**

- **Designed for use with both asphalt and concrete**

- **Can fill to grade, or fill most of the way and then apply Safetrack MTI as the top layer**
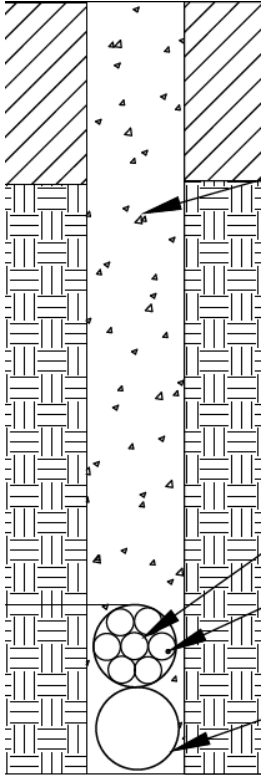
Example 5 year old Microtrench - Austin, Texas

Originally installed in 2015
Photos taken February 2020
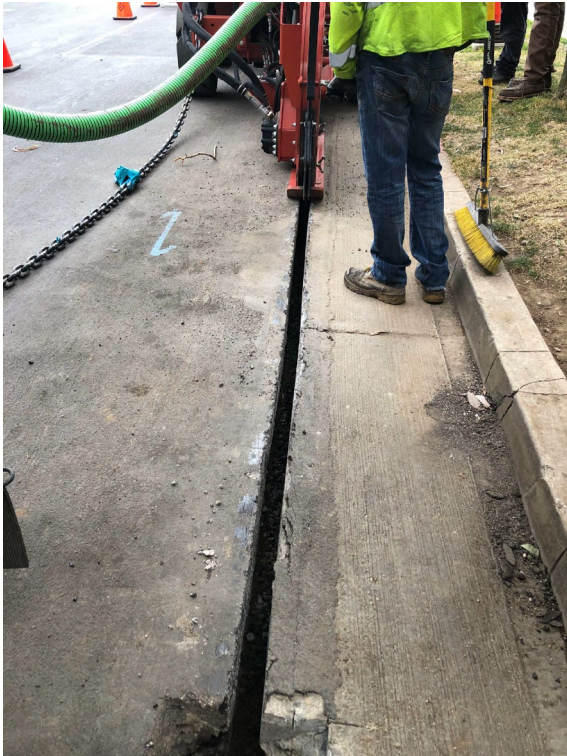
Los Angeles MicroTrenching

Los Angeles Parking Lot Demonstration

Los Angeles MicroTrenching Deployment Example

And we're using it successfully in communities around the country.

Austin, TX
Boston, MA
Charlotte, NC
Chicago, IL
Dallas, TX
El Paso, TX
Lexington, KY
Los Angeles, CA

Long Beach, CA
Louisville, KY
Manhattan Beach, CA
Miami-Dade County, FL
Mt. Vernon, NY
New York City, NY
San Diego, CA
Scottsdale, AZ

CROWN CASTLE

Questions?

Thank you

For further information please contact:

Dan Schweizer
Regional Director – Government Affairs
Daniel.Schweizer@crowncastle.com

CROWN CASTLE