

Town of Castle Rock, Douglas County, Colorado
Project No.: COCR039

1. Project Overview

This project consists of the construction of new **underground fiber-optic infrastructure** within the Town of Castle Rock, Douglas County, Colorado. The proposed facilities are part of a Fiber-to-the-Home (FTTH) network expansion intended to improve broadband and telecommunications services within the project area.

All construction activities will occur within **public right-of-way and/or existing utility easements** as shown on the approved construction plans. No private property improvements are proposed beyond approved easement limits.

2. Scope of Work

The scope of work includes approximately **46,442 linear feet** of underground fiber-optic facilities. Major elements of the project consist of the following:

- Installation of **HDPE conduit** for fiber-optic cable
- Installation of **fiber-optic cable** within the conduit system
- Placement of **handholes, vaults, pull boxes, and terminal boxes** as shown on the plan set
- Installation of **tracer wire** for long-term locatability
- Directional boring as the primary installation method, with limited trenching where boring is not feasible
- Full surface restoration following construction

All work will be coordinated to minimize impacts to residents, traffic, pedestrians, and adjacent utilities.

3. Construction Methods

Underground Installation

- **Directional boring** will be used where possible to reduce surface disturbance and impacts to pavement, sidewalks, and landscaping.
- **Open-cut trenching** may be utilized in localized areas where boring is not permitted or practical.

- Minimum cover depths will be maintained per Town of Castle Rock standards and as shown on the approved plans.

Utility Coordination

- Existing utilities include water, sanitary sewer, storm sewer, electric, gas, and communications facilities.
- The contractor will contact **Colorado 811** at least **72 hours prior** to any excavation.
- All crossings and potential conflicts will be **pothole-verified** prior to boring or trenching.
- Any field conflicts or discrepancies will be reported to the Town and project engineer before proceeding.

4. Traffic Control and Right-of-Way Impacts

Traffic control will be implemented in accordance with the **Manual on Uniform Traffic Control Devices (MUTCD)** and all Town of Castle Rock requirements.

- Typical Traffic Control Plans (TCPs) included in the plan set will be utilized.
- Lane closures, shoulder work, and sidewalk impacts will be minimized and coordinated.
- **Pedestrian access will be maintained** at all times or safely detoured in compliance with ADA requirements.
- Any work affecting Town or CDOT facilities will be coordinated and permitted accordingly.

5. Materials

Materials used for this project will conform to the **Proposed Materials List** included in the approved plan set and may include:

- HDPE conduit
- Fiber-optic cable
- Handholes, vaults, and terminal boxes
- Tracer wire and pull tape
- Approved backfill, flowable fill, and surface restoration materials

All materials will meet or exceed Town of Castle Rock standards.

6. Restoration

All disturbed areas, including but not limited to:

- Pavement
- Curb and gutter
- Sidewalks
- Landscaping
- Right-of-way surfaces

will be restored to **equal or better condition** than existed prior to construction. Restoration will be completed in accordance with Town standards and subject to inspection and approval.

7. Safety and Compliance

The contractor will be responsible for all jobsite safety and compliance, including:

- OSHA excavation and trench safety requirements
- Town of Castle Rock Municipal Code and Technical Manuals
- Stormwater, erosion, and sediment-control requirements
- ADA accessibility requirements

8. Final Documentation and Acceptance

Upon completion of construction, the contractor will provide:

- **As-built drawings** reflecting final alignment and depths
- Fiber testing documentation (continuity and loss testing)
- Confirmation of final restoration
- Compliance documentation verifying construction was performed per approved plans and permits

Final acceptance will be subject to inspection and approval by the Town of Castle Rock.