

OnlineNW Manual

FIBER STANDARDS HANDBOOK

A guide for OnlineNW fiber internet customers that want to do their own trenching, cabling or construction.

online
NORTHWEST
Fiber Optic Internet

F-550
SUPER DUTY

POWER STROKE V8
TURBO DIESEL



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01 OVERVIEW

IN BRIEF

**Collaborative
model**

7-step process

SECTION 1: Overview

At OnlineNW, we acknowledge that the internet is a critical service but we also understand that fiber construction is an expensive endeavor. We have learned over the years that with clear communication, good expectations, and the support of our experienced crew, we can partner with some customers to reduce the costs of construction.

The following guide explains the process and particulars of OnlineNW partnering with customers who are capable and determined to do some of the construction work necessary to extend fiber-optics to their location for access to OnlineNW's world-class 10 gig fiber network.

The installation process includes 7 steps.



 503.883.9200

 www.onlinenw.com

7-STEP PROCESS

- 1.) The customer to call in drop path locates to identify existing utilities (underground only.)
- 2.) The customer to schedule a walkthrough with OnlineNW to negotiate and agree on the final drop path.
- 3.) OnlineNW to provide a quote that includes the scope of work, a path map, and pricing for materials and installation
- 4.) The customer to procure the necessary permits and agreements to complete their construction responsibilities
- 5.) The customer to schedule an inspection with OnlineNW to review and evaluate the customer's construction work
- 6.) Upon a successful inspection, the customer to schedule an appointment with OnlineNW to complete our construction responsibilities
- 7.) The customer to schedule final installation with OnlineNW.



02 CUSTOMER RESPONSIBILITIES

IN BRIEF

Locates

Construction

Permitting

SECTION 2: Customer Responsibilities

- ➔ When applicable and feasible, the customer is responsible for calling in locates prior to the initial walkthrough. This provides clarity for negotiating underground cable pathing based on where existing utilities are located.
- ➔ The customer or contractor is responsible for all underground work. Utility locates must be called using the Utility Underground Notification Center phone 811
- ➔ Any permitting for construction within ROW right of ways, public/private roads, town, county, state highways,etc. Must be obtained by the customer/contractor prior to work.



03 TRENCHING REQUIREMENTS

IN BRIEF

Approval

**Physical
allocation**

**Size and depth
specifications**

SECTION 3: Trenching Requirements

- ➔ **Trenching/ intended digging path must first be approved by OnlineNW.**
- ➔ Trench path will be straight as possible. If a slight change in direction is needed, sweeps can be used with a minimum bend radius of 3ft.
- ➔ If trench direction changes abruptly and will interfere with a smooth path for fiber, a vault will be placed for a handhold/pull point.
- ➔ Trench will be free from large/sharp obstructions that could damage conduit when backfilled.
- ➔ Trench can be shared with other conduits/utilities, if allowed by permittee/utilities. OnlineNW does not require conduits to have separation space. The customer is responsible for interpreting and adhering to admissible permits.
- ➔ OnlineNW requires a trench depth of a minimum of 24 inches on the customer's private property. Trench depth in ROW, roads, etc. will vary based on requirements/permit of city, county, state.

04

VAULT REQUIREMENTS

IN BRIEF

**Physical
allocation**

Traffic rating

**Vault size
confirmation**

SECTION 4: Vault Requirements

- ➔ **Vault placement must first be approved by OnlineNW.**
- ➔ Vaults will be set flush with the ground and compacted in place.
- ➔ Vaults will be needed approximately every 300ft in trench path for pull points.
- ➔ If along roads, driveways, or any potential for vehicle (automobile, tractor, atv) traffic. Vaults must be traffic rated.
- ➔ Vault size will be determined by the OnlineNW provided scope of work.

05 CONDUIT

IN BRIEF


Supplies

**Size
Specifications**

**Vault
sweeps**

SECTION 5: Conduit

- ➔ Roll pipe or stick conduit is acceptable. Stick pipe must be glued at all joints, couplers and sweeps using PVC solvent/cement.
- ➔ Pull string must be in conduit and ends taped to prevent obstructions. Pull string of at least 200lb tensile strength required.
- ➔ Conduit Size - Conduit must be at least ¾" inside diameter for service drops to house.
- ➔ For main line, a minimum of 1 ¼' inside diameter conduit must be used.
- ➔ Termination at house must have an access point (Line Box, LB) on end of conduit before path enters the building.
- ➔ Conduit can be swept into vaults using a minimum of 2ft sweeps or stubbed straight in through the bottom of vault.

A photograph of two construction workers in safety gear (hard hats, high-visibility vests) working on a site. One worker is in the foreground, wearing a yellow vest and a white hard hat, looking down. The other worker is in the background, wearing a blue hoodie and a white hard hat, looking towards the first worker. A red truck with a license plate '50228' is visible behind them. The background shows a road and some trees.

06 MATERIALS/ SUPPLIES

IN BRIEF

**Approved
materials**

**Required
materials**

**OnlineNW
provided materials**

SECTION 6: Materials/Supplies



Approved list of materials the customer can purchase on their own:

- Conduit
- Pull string
- Glue



Approved list of materials that OnlineNW is required to provide:

- Vaults
- Pull rope

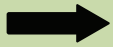
07 INSPECTION

IN BRIEF

**Inspection
process**

Billing

SECTION 7: Inspection



Inspection of trench, pull string, conduit/vault installation must be approved before backfilling. Once backfilled, fiber can then be installed by OnlineNW.

- The first inspection is free. Subsequent requests are billed at \$125 each.

08

PHOTO

REFERENCES

Acceptable Trench



Unacceptable Trench



Good Vault Set



Flush to ground with proper gravel compaction.



Termination at House with LB



CONTACT ONLINENW TODAY

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