

NoaNet Service Drop Work Order					
Description of Bid Requirements:					
Work will be done in accordance to Washington State prevailing wage requirements; all RCW's and Washington State Laws apply to this project.Terms & conditions of this quotation &					
Description of Construction Requirements:					
Description of Permitting Requirements:					
Subscriber Drop Labor Units					
QTY	UOM	Unit code	Description	Unit Price	TOTAL
Service Drop Aerial Units					
1	Lineal Foot	PLAF	Placement of Aerial Fiber Flat Drop - Existing Strand	\$0.00	\$0.00
1	Lineal Foot	ADP	Placement of Aerial Fiber Flat Drop - Self Support/New Pole Line	\$0.00	\$0.00
1	Each	ARR	Place new Riser 2"	\$0.00	\$0.00
1	Hourly	TREETRIM	Tree Trimming (excessive)	\$0.00	\$0.00
					\$0.00
Service Drop Underground Units. - (Private Property)					
1	Lineal Foot	BPP- s	Plow - Drop Duct	\$0.00	\$0.00
1	Lineal Foot	BTP- s	Trench - Drop Duct	\$0.00	\$0.00
1	Lineal Foot	BDB - s	Directional Drill/Missile - Drop Conduit	\$0.00	\$0.00
1	Lineal Foot	BVMD	Drop Vault / Pedastal Install	\$0.00	\$0.00
1	Lineal Foot	BCD3.5	Pull 3.5MM Flat drop thru existing duct	\$0.00	\$0.00
1	Lineal Foot	A-BCD3.5	Pull additional 3.5MM Flat drop thru existing duct	\$0.00	\$0.00
1	Square Foot	BRC	Concrete Restoration	\$0.00	\$0.00
1	Square Foot	BRA	Asphalt Restoration	\$0.00	\$0.00
					\$0.00
Service Drop Underground Units - (Right of Way)					
1	Lineal Foot	BPP	Plow in RoW Conduit	\$0.00	\$0.00
1	Lineal Foot	BTP	Trench in RoW Conduit	\$0.00	\$0.00
1	Lineal Foot	BDB	Directional Drill in RoW Conduit	\$0.00	\$0.00
1	Each	BVMS	Handhole Placement, small, 17x30x36	\$0.00	\$0.00
					\$0.00
Service Drop - Splicing & Special Circumstances					
1	Each	HO1	Fusion Splice	\$0.00	\$0.00
1	Each	HO3	Field Splice On Connector	\$0.00	\$0.00
1	Each	Mob/DeMob	Mobilization/DeMobilization Fee - Drop Crew (Special Circumstances)	\$0.00	\$0.00
1	Flat Fee	SC	Special Circumstances - Prior Approval From NoaNet Needed	\$0.00	\$0.00
					\$0.00
ONT Installation Labor Units (optional)					
1	Each	NID	Mounting Outdoor ONT Housing w/ smoke tube (each)	\$0.00	\$0.00
1	Each	ONT	Install ONT	\$0.00	\$0.00
1	Each	CFSOD	Core Drill, Building Penetration	\$0.00	\$0.00
					\$0.00
Traffic Control					
1	Flat Fee	TC-C	Traffic Control - County ROW	\$0.00	\$0.00
1	Flat Fee	TC-DOT	Traffic Control - DOT ROW	\$0.00	\$0.00
Subscriber Drop Construction Services Sub-Total					
Services total before Sales Tax					\$0.00
Washington State Sales Tax				7.80%	\$ -
Total Cost of Services					\$0.00
Owner Provided Materials:					
			Outdoor Rated Single Mode Fiber Flat Drop-5000' Reel (Non-Toneable)	N/A	
			18/14mm Locatable Duct - 4000' reels	N/A	
			CPH-911 - Lockable with Stake and Bracket	N/A	
			Outdoor Rated Single Mode Fiber Flat Drop SC/APC to Blunt End x 250 Ft Reel Box (Non-Toneable)	N/A	
			Outdoor Rated Single Mode Fiber Flat Drop SC/APC to Blunt End x 500 Ft Reel Box (Non-Toneable)	N/A	
			Outdoor Rated Single Mode Fiber Flat Drop SC/APC to Blunt End x 750 Ft Reel Box (Non-Toneable)	N/A	
			SC/APC Universal Field Splice on Connectors for Single Mode 900um Flat Drop	N/A	
Contractor Provided Materials:					
			Aerial Attachment hardware, P-Clamps, Span Clamps, Rams Horn, Pre-Form	N/A	
			All grounding, bonding materials, split bolts, ground Rod, ground clamps, etc.	N/A	
			Minor materials, cable tie, tape, screws etc	N/A	
			1" conduit, Service drop house protector-Underground only	N/A	

Unit Item	UOM	Description
PLAF	Lineal Foot	This "PLAF" unit encompasses the labor, equipment, and materials required for the installation of an aerial flat fiber service drop, all length from the OFDC terminal to the home. It encompasses the labor and materials essential for mounting a flat single fiber aerial service drop securely end to end using the manufacturer-recommended material and specifications. Per the construction drawings, connections will be located at the OFDC by a mid-span clamp or close to the pole and will seamlessly integrate with existing utilities to the home, adhering to all NESC standards. Furthermore, it covers the connection point at the residence's structure using the proper materials securing and routing to the recommended Dmarc location next to the power meter and existing communication service providers. Tree trimming will be carried out as necessary to facilitate the installation of the aerial service drop wire, adhering meticulously to the engineer's and property owner's instructions to ensure the creation of a clear and unobstructed pathway is achieved. Mounting of a single NIU is also included with this unit, and the termination of the fiber drop to include a fusion or mechanical splice. Light Level testing will be required and logged and maintained within the engineers' splicing recommendations.
ADP	Lineal Foot	This unit includes the placement of ADSS fiber to required tension. The placement of required ADSS hardware, including dead ends, vibration dampeners, and storage assemblies are included. Refer to material specifications sheet for specific hardware and placing
ARR	Each	This unit includes the placement and all material associated with the installation of a new 2" conduit riser and the transition from underground to aerial. The riser will be placed on standoff brackets, never mounted to the face of the pole. NESC and joint use standards apply.
TREETRM	Hourly	This unit is to be used when trimming foliage that is needed to clear an aerial path to place an aerial fiber within a designated aerial path to a connection point. This includes all labor and equipment and is paid as an hourly rate. The trimming should only be considerable enough area to work safely and pass a fiber through. Prior permission from a property owner should always be done. This unit to be used only when trimming will take more than 30 minutes, all other trimming is considered incidental. Remove all foliage when done.
SLACK	Each	Service Drop Aerial Storage Loop unit includes the material and labor to install and lash/secure a service drop storage loop to the OFDC storage loop at the OFDC. The storage loop shall be installed in an overhead configuration at a sufficient length to mirror the length of the storage loop at the OFDC. The loop is to be neatly coiled and secured with ties or clamps. The linear distance of the service drop will not be considered in determining the length of the service drop aerial storage.
BPP-s	Lineal Foot	This unit includes labor, equipment, and materials for installing an underground flat fiber service drop using a vibratory plow method. The installation runs from the aerial OFDC terminal to the pole and transitions underground via a 2" SCH 40 riser with stand-off hardware, leading to a flower pot/pull box near the home. Work Activities: Install a 2" SCH 40 riser and transition the fiber drop from aerial to underground. Use a vibratory plow to install the flat fiber drop while maintaining proper depth and clearances per NESC standards. Integrate the fiber with existing underground utilities and route it to the designated Dmarc location. Mount a single NIU at the residence and terminate the fiber drop with a fusion or mechanical splice. Perform and log light level testing per engineering splicing recommendations.
BTP-s	Lineal Foot	This unit covers the labor, equipment, and materials for installing an underground flat fiber service drop using an open trenching method. The installation follows the path from the aerial OFDC terminal to the pole, transitioning to an underground 2" SCH 40 riser and routed to a flower pot/pull box near the home. Work Activities: Set up trenching operations while ensuring compliance with local utility locates and safety regulations. Excavate and install fiber conduit, ensuring proper burial depth and protection per NESC standards. Restore disturbed areas upon trench completion. Connect fiber to the designated Dmarc location near the power meter. Install a single NIU, terminate the fiber with a fusion or mechanical splice, and conduct light level testing.
BDB-s	Lineal Foot	This unit includes labor, equipment, and materials for installing an underground flat fiber service drop using a missile bore or directional drilling method. The installation path follows from the aerial OFDC terminal to the pole, transitioning into a 2" SCH 40 riser and routed underground to a flower pot/pull box near the residence. Work Activities: Perform underground boring to install fiber conduit while avoiding existing utilities. Ensure bore paths meet depth and clearance requirements per NESC standards. Route fiber from the underground transition point to the designated Dmarc location. Mount a single NIU and complete fiber termination with a fusion or mechanical splice. Conduct and log light level testing per engineering splicing specifications
BVMD	Each	BVM-12x12x12 Descriptions: Handhole Placement 12x12x12. Unit Description: These units include all labor, equipment, and material handling to safely remove and/or install a 12x12x12 hand hole per specified drawings. These unit(s) include excavation, placing the specified granular footing for the vault, placing the grounding system, ground rod, and marker sign placement behind the vault, backfilling per specifications, setting new frames, racks, and covers, running conduit into the hand hole and sealing the entrances with an industry accepted sealant or grout. Composite-type bottomless vaults require 8" of base pea gravel and a rodent screen. See the Material requirement attachment for specific details on materials included within the vault. All cables and splice cases will be racked on cable shoes. Grounding is required in all vaults with a splice case. See specifications for more details, or CPH Pedestal (Channel). This unit includes all labor, equipment, and material handling to safely remove and/or install an above ground pedestal per specified drawings. These unit(s) include excavation, placing the specified granular footing for the pedestal, backfilling per specifications, running of conduit into the pedestal and sealing of duct entering the pedestal, place drop coil on pedestal bracket and ship back 12" of the pin-point duct locate wire and leave inside the pedestal for locating purposes. The typical pedestal size is: 9" and 10" DIA See the Material requirement attachment for specific details. See specifications for more details.
A-BCD3.5	Per Foot	BCD3.5 Descriptions: Pull 3.5MM Flat Drop thru Duct. Unit Description: This unit includes all labor, equipment, and material required to pull a 3.5mm flat drop fiber cable through any size existing duct and seal and or plug all conduit(s) and inner duct(s). This unit also includes all labor, equipment, and materials required to locate and access all hand holes or vaults involved in the project. For blowing of fiber, at no time will the cable be compressed over 200 pounds by blowing machine. If a blowing and capstan method of operations is used, the capstan shall not at any time pull over 600 pounds of tension to the cable. The burden of proving equipment calibration is the Contractor's responsibility. This unit includes all labor, equipment, and materials required to locate and access all hand holes or vaults involved in the project. Special situations may require that additional cable lengths be left in the hand hole/vault if requested. Fiber optic cable shall be coiled, racked, and stored on cable shoes inside the vault. The unit is paid from wall-to-wall measurements and will require slack/storage in the vault or hand hole.
A-BCD3.5	Per Foot	A-BCD3.5 Descriptions: Pull Additional 3.5MM Flat Drop thru Duct. Unit Description: This unit includes all labor, equipment, and material required to pull an additional 3.5mm flat drop fiber cable through any size existing duct and seal and or plug all conduit(s) and inner duct(s). This unit also includes all labor, equipment, and materials required to locate and access all hand holes or vaults involved in the project. For blowing of fiber, at no time will the cable be compressed over 200 pounds by blowing machine. If a blowing and capstan method of operations is used, the capstan shall not at any time pull over 600 pounds of tension to the cable. The burden of proving equipment calibration is the Contractor's responsibility. This unit includes all labor, equipment, and materials required to locate and access all hand holes or vaults involved in the project. Special situations may require that additional cable lengths be left in the hand hole/vault if requested. Fiber optic cable shall be coiled, racked, and stored on cable shoes inside the vault. The unit is paid from wall-to-wall measurements and will require slack/storage in the vault or hand hole.
BRC	Square Foot	This unit includes all labor, equipment, material, and material handling to saw cut, remove, and restore concrete up to 6" depth, including sub base, sidewalks, curbs, gutters, gravel base, reinforcement steel, striping paint, and speed bumps, as detailed on the construction drawings or as required on permits. The Contractor's price includes labor for stone or gravel needed and compaction. After backfilling the Contractor shall keep all trenches and excavations in safe condition for vehicular pedestrian traffic, until permanent paving has been completed. All materials to be removed shall be disposed of by the Contractor at a "recognized dump facility" in the area as designated by the local governing authority
BRA	Square Foot	This unit includes all labor, equipment, material and material handling to saw cut, remove, and restore asphalt up to 6" depth, surface mix, sub base, gravel base, striping paint, and speed bumps, as detailed on construction drawings or as required on permits. The Contractor's price includes labor for stone or gravel needed and compaction All pavement will be line cut or otherwise cut with an approved method to ensure only a minimum amount has to be replaced. When required by Federal, State, or Local regulations, the contractor will be allowed a cutback or "T-Cut" of paving at the unit prices for the applicable work. A "cutback" shall be defined as the cutting and removal of additional paved surface outside that which was cut and removed for the actual trench width requirement. After backfilling the Contractor shall keep all trenches and excavations in safe condition for vehicular and pedestrian traffic, until permanent paving has been completed. All materials to be removed shall be disposed of by the Contractor at a "recognized dump facility" in the area as designated by the local governing authority
BPP - RoW	Lineal Foot	Pre-ripping shall precede all plowing and be made in the same direction as the plow route at a minimum depth of 4 inches below the depth of HDPE/inner duct placement as noted in the Specifications and Construction Drawings. Minimum depth of 48" (4 Feet) is required
BTP - RoW	Lineal Foot	These units include all labor, equipment and material handling to provide a trench in order to install conduits with the specified minimum 48" cover. These units include the placement of conduit, warning signs, marker tape, suitable backfill material, soil compaction, and restoration as specified on the construction drawings and municipality permit. This unit includes all fencing work, including temporary removal, restoration, and any surface restoration of gravel or sod.
BOB - RoW	Lineal Foot	* These units include all labor, equipment, access to bore site (including entry, exit and intermediate bore pits), Bore Profiles and material handling to directional bore the specified size up to 4" HDPE and or (2) 1 1/2" HDPE, to the depth and distance specified on the construction drawings. These units include the removal and proper disposal of any drilling fluids in accordance with the requirements of governmental authority. These units include placement of inner-duct including bores and bore extensions. These units include all fence work, including temporary removal, restoration and replacement, restoration of bore pits, compacted to its original pre-existing condition. Unit includes proofing and roping of newly installed conduit. This unit will be paid on the basis of total depth to depth footage based upon straight line stationing at each bore location. Depth to depth footage shall be defined as the straight line footage between the point on bore entry at which the depth reaches 48 inches and the point on bore exit at which the depth rises to 48 inches. All depths shall be measured from surface grade. Straight line stationing shall be determined by NoaNet inspector by measuring the running line footage (at surface grade) of the bore using an appropriate measuring device and the construction drawings. All conduit couplings and vault entry terminations are included. No compensation shall be made to Contractor for unsuccessful bore attempts unless the specific attempt is approved by a NoaNet Representative. Bore profiles and logs will be included in the As-built submittals. *
BVMS	Each	These units include all labor, equipment, material handling to properly remove and/or install a pre-cast vault or hand hole per specified drawings. These units include excavation, placing the specified granular footing for the vault, placing the grounding system, ground rod, marker sign placement behind the vault, backfilling per specifications, setting new frames, racks and covers, running conduit into the hand hole and sealing the entrances with an industry accepted sealant or grout. Composite type bottomless vaults require 8" of base pea gravel and a rodent screen. Typical composite hand hole size is, 17x30x30 (Small). See Material requirement attachment for specific details on materials included within the vault. All cables and splice cases will be racked on cable shoes. Grounding is required in all vaults, see specifications for more details. Unit is for cancellation or changes
HO1-Fusion Splice	Each	
HO3-Connector Splice	Each	This "HO3-Connector Splice" Consists of all labor, material, and/or testing necessary to complete a single fiber optic splice in the NIU located at the house. The labor must include splicing and stowing the spliced fiber or patch cord/pigtail in a fiber organizer. These units also include complete troubleshooting and repair (i.e., Clean-up and re-splicing Attempts) that may arise during final testing. All Testing requirements are included in this unit. See Fiber Splicing Specs provided by the engineer for further details. The timing of the restoration work will be coordinated to minimize inconvenience to the property owner and ensure timely completion of the project. A post-restoration inspection will be conducted to verify that all aspects of the restoration have been completed to the satisfaction of the property owner.
Mob/DeMob	Each	Standby charges will be addressed and will only apply with prior approval from LPUD or NN. These charges may be applicable if a crew is dispatched for construction and the designer has failed to identify required permits. (This will not be applicable for customer requested changes, if a customer request changes the expectation is the installer will call the PUD/NoaNet on changes but pull off the job and move on to the next.)
SC- PASS	Pass Thru	Unit is for special circumstance issues outside of the contractors control that is not capture in any listed line items. Cost +5%. Unit requires approval from Lewis PUD. 5% mark up

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