



IFB # NoaNet_ 2026-015 Lateral Extension_Emergency Restoration and Service Drop WO					
Project Tracking #		NOC Outage INC#			
Project SO#					
IFB Contract Number	IFB # NoaNet_ 2026-015				
		Eastern Region			
Project Locations					
City, State Zip					
NoaNet Osp Engineer POC					
Phone Number and Email					
Property Owner POC					
Phone Number and Email					
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. Contractor will need to file intent to pay prevailing wage with Washington State Labor & Industry before the start of work. Contractor will also need to provide an insurance certificate naming NoaNet as the additionally insured. Terms & conditions of this quotation & subsequent billing are required.					
Project Scope Of Work:					
Joint Use & Permitting					
Joint Use Attachments by Owner:					
State Permitting Agency:					
ROW Permitting by County:					
ROW Permitting by City:					
Call-Out Emergency Restoration Units					
Annual Call-Out Quantities	UOM	Construction code	Description	Unit Price	
420	Per Hour	Emergency Dispatched	Fiber Splicer Restoration, Single Person		
210	Per Hour OT Rate	Emergency Dispatched	Fiber Splicer Restoration, Single Person, Overtime Rate		
385	Per Hour	Emergency Dispatched	Fibers Splicer Restoration, Two Person Crew		
173	Per Hour OT Rate	Emergency Dispatched	Fibers Splicer Restoration, Two Person Crew, Overtime Rate		
657	Per Hour	Emergency Dispatched	Aerial Restoration, One to three Person Crew		
320	Per Hour OT Rate	Emergency Dispatched	Aerial Restoration, One to three Person Crew, Overtime Rate		
230	Per Hour	Emergency Dispatched	Buried Restoration, One to three Person Crew		
108	Per Hour OT Rate	Emergency Dispatched	Buried Restoration, One to three Person Crew, Overtime Rate		
0	Per Hour	Emergency Dispatched	Driver / Lowboy, Tractor-Trailer		
0	Per Hour OT Rate	Emergency Dispatched	Driver / Lowboy, Tractor-Trailer, Overtime Rate		
Additional Unit Hours-Call Out					
Annual Call-Out Quantities	UOM	Construction code	Description	Unit Price	
18	Flat Rate	MOB Fee	Call-Out/Mobilize Crew to Work Location Fee (One Time Fee for each call-out)		
Underground Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
18480	Lineal Foot	BTP-(1'--100')	Trench and Place (SCH, SDR,Conduit) 36" Cover		
3250	Lineal Foot	BTP-(101'-- Above)	Trench and Place(SCH, SDR,Conduit) 36" Cover, 101' and Above		
170	Lineal Foot Adder	BTP 1	Trench Additional 1' Depth Increments over 3' Depth		
1325	Lineal Foot	BTR	Trench and Relocate Fiber		
80	Lineal Foot	BRP	Rock Breaking or Sawing up to 3' depth		
165	Lineal Foot	BHP	Hand trenching		
3470	Lineal Foot	BFV	Plow & Place facilities at 36"Depth		
3580	Lineal Foot	BDB(2")	Directional Bore up to a 2" hole, 1 foot - 250 feet		
2785	Lineal Foot	BDB(2")-1	Directional Bore up to a 2" hole, 251 feet and Above		
0	Lineal Foot	BDB(4")	Directional Bore up to a 4" size hole, 1 Foot-250 Feet		
0	Lineal Foot	BDB(4")-1	Directional Bore up to a 4" size hole, 251 feet and Above		
6250	Lineal Foot	BDC(2")	Directional Bore Cobble up to a 2" hole, 1 foot - 250 feet		
4535	Lineal Foot	BDC(2")-1	Directional Bore Cobble up to a 2" hole, 251 feet and Above		
0	Lineal Foot	BDC(4")	Directional Bore Cobble up to a 4" size hole, 1 Foot-250 Feet		
0	Lineal Foot	BDC(4")-1	Directional Bore Cobble up to a 4" size hole, 251 feet and Above		
1410	Lineal Foot	BDR(2")	Directional Bore Rock up to a 2" size hole, 1 Foot-250 Feet		
60	Lineal Foot	BDR(2")-1	Directional Bore Rock up to a 2" size hole, 251 feet and Above		
0	Lineal Foot	BDR(4")	Directional Bore Rock, up to a 4" size hole, 1 foot - 250 Feet		
0	Lineal Foot	BDR(4")-1	Directional Bore Rock, up to a 4" size hole, 251 feet and Above		
30	Each	PH	Pothole Existing Utilities, 0 to 5 (includes restoration)		
10	Each	PTH+	Pothole Existing Utilities, 6 and above (includes restoration)		
0	Lineal Foot	BPD	Jack / Push, Dry Bore up to 4" Steel Casing		
80	Lineal Foot	BCC	Concrete Encasement		
60	Lineal Foot	PMB	Pneumatic Missile boring, a trenchless method (Short sections Only)		
123	Each	UHF(17x30x24)T-22	Underground Handhole Placement, small, 17x30x24, Tier 22		
80	Each	UHF(30x48x36)T-22	Underground Handhole Placement, large, 30x48x36 Tier 22		
3	Each	UVF(4x4x4)(T)	Underground Vault placement, 48x48x48 concrete with traffic-rated steel lid		
11	Each	Bollard Installation	Installation of a protection Bollard		
8	Each	UHF-R	Underground Handhole Relocation		
0	Each	UVF-R	Underground Vault Relocation		
256	Square Foot	BM72	Asphalt Remove & Restoration		
400	Square Foot	BM73	Concrete Remove & Restore		
27380	Lineal Foot	BRR	Rod, Blow and Rope pre-existing Conduit		
32760	Lineal Foot	PLUF(x)I	Pull Fiber Cable thru Conduit (x-Size of Fiber Placed)		
0	Lineal Foot	BCP	Blow Fiber Cable thru Duct		
18250	Lineal Foot	UGLW	Place one #12 AWG EHS copper Clad steel coated locate wire, 500 feet or above. (Locatable mule tape is not accepted)		
7	Each	BM2	Ground Rod Install and assembly		
720	Square Foot	Ground Restoration	Ground restoration to include, Sod, gravel, fill dirt ect-Restore areas to like/better condition. All required labor/materials included.		

Aerial Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
360	Per Attachment	APT	Pole Transfer (Straight)		
25	Per Attachment	APG	Pole Transfer (Angle)		
17	Per Location	APD	Pole Transfer (Dead End)		
32	Per Location	APD-1	Pole Transfer (Double-Dead End)		
18	Per Location	XPOLE	Pole Removal		
3	Per Location	POLE	Set New Pole		
7	Per Location	BAND	Band to Non-Wood Pole		
15	Per Anchor	PF3-7	Screw Anchor Placement New, 16,000 LB		
35	Per Anchor	PF2-7	Plate Anchor Placement New, 16,000 LB		
5	Per Anchor	PF5-3	Rock Anchor Placement New, 16,000 LB		
0	Per Anchor	PF1-7	Expanding Anchor Placement New, 16,000 LB		
12	Per Anchor	PM12(x)	Side Walk Anchor Placement New (x-Length of Arm)		
17	Per Location	APA-1	Anchor Transfer and or Removal		
4630	Per Strand Foot	PE2-2	Place Overhead Guy 6M EHS		
1280	Per Strand Foot	PE1-2	Place 6M EHS Gown Guy		
13760	Per Strand Foot	ALS	Lash One Fiber Optic Cable (Includes Storage)		
8220	Per Strand Foot	ALS-1	Lash Additional Fiber Optic Cables (Includes Storage)		
3850	Per Fiber Cable Ft	ALD	Delash & Relash Fiber Cable		
26350	Per Fiber Cable Ft	ADS	ADSS Fiber Relocation		
763	Per Fiber Cable Ft	ADP	ADSS Fiber Placement		
40	Per Fiber Cable Ft	DAMP	Place Vibration Wind Dampner		
3200	Per Fiber Cable Ft	ADR	Aerial or UG Fiber Wreckout		
350	Per Strand Foot	AXM	Wreckout Strand, Hardware and X-Arms		
17	Per Location	PM4	Place New or Transfer X-Arms Wood or Composite(PUPI)		
15	Per Location	PM4-A	Place New or Transfer Fiberglass Arm (Any Size)		
35	Each	ARR	Place New Riser up to 4"		
27	Each	ARR-1	Transfer Existing Riser up to 4"		
53	Each	ARR-2	Removal of Existing Riser		
6	Each	BM51(x)	Install Multi-Service Terminal (MST,OFDC,Yellow Jacket)		
2670	Lineal Foot	R3-5	Tree Trimming (See unit Description)		
Fiber Splicing/OTDR Testing Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
285	Each Location	HUOF	Placement of New Underground/Aerial Splice Closure		
1450	Each Closure	SPC	Splice Closure, Re-Entry		
3160	Each Closure	SPC-1	Splice Closure/Cable Prep (New Cable Prep) (Any splice closure)		
2365	Each Splice	HO1 (1-12)	Splice and Test Fiber (1-12)		
120	Each Splice	HO1-(13-24)	Splice and Test Fiber (13-24)		
2410	Each Splice	HO1-(25-48)	Splice and Test Fiber (25-48)		
4920	Each Splice	HO1-(49 and Above)	Splice and Test Fiber (49 and Above)		
435	Each Closure	SPR	Ring Cut or Mid-Entry Prep		
2320	Per End Tested	SPT	Test Fiber, OTDR Acceptance Testing		
15	Flat Rate	MOP	After Hours MOP		
245	Per Location	SPC-LWR	Lower Aerial splice case for Splicing and Re-Hang		
35	Flat Rate	STU	Splicer Travel Unit (> 50 miles from designated storage yards per zone)		
1160	Each	FTP	Installation Fiber patch panel (Rack-mount) or (Back-board mount)		
MPOE Building Entrance Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
4250	Per Foot	SIFOT	Building Fiber Cable Placement		
1120	Per Foot	SIFOT-A	Building Attic Fiber Cable Placement		
80	Per Foot	SIFCT	Building Fiber Cable Placement EMT		
315	Per Foot	BLDG-EMT	Building EMT conduit placement		
360	Each	CSFOD	Core Drill, Building or Wall Penetration, wood		
535	Each	CSFOD-1	Core Drill, Building or Wall Penetration, concrete		
3	Each	CABCL	Cell Site Cabinet (Charles, American Product, etc)		
Permitting /Make Ready / Easement Units-(To be used If Requested by NoaNet)					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
3	Each	EASM	Easement and Consent Acquisition		
15	Each	CROW	City / County-ROW Permits		
20	Each	WROW	WSDOT Permits		
7	Each	RROW	Railroad Utility Crossing Permits		
City/County/WSDOT/ODOT Traffic Control					
850	Per Hour	TRA	Traffic Control Crew		
480	Per Hour OT Rate	TRA-OT	Traffic Control Crew-Overtime Rate		
Engineering and Related Services (To be used If Requested by NoaNet)					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
0	Each	UPDA-1	Utility Pole Data Collection & Application 1 to 10 poles		
0	Each	UPDA-2	Utility Pole Data Collection & Application 11 to 100 poles		
0	Per Foot	FD CD	Field, Engineer, Design, CAD up to 2500 ft		
0	Per Foot	FD CD-1	Field, Engineer, Design, CAD 2501 ft -5000 ft		
0	Per Foot	FD CD-2	Field, Engineer, Design, CAD 5001 ft-25000 ft		
0	Per Hour	PREFD	OSP Pre-Fielding Engineer and vehicle		
NoaNet Provide Materials					
	UOM	Unit code	Descriptions		
	Per Foot	2F-Flat Drop	Fiber, 2CT Flat Drop		
	Per Foot	6F-Armored	Fiber, 6CT, Armored, OFS, AT-3CEH2YT-006		
	Per Foot	12F-Armored	Fiber, 12CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	24F-Armored	Fiber, 24CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	48F-Armored	Fiber, 48CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	96F-Armored	Fiber, 96CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	144F-Armored	Fiber, 96CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	288F-Armored	Fiber, 96CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	432F-Armored	Fiber, 144CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		

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IFB # NoaNet_ 2026-015 Lateral Extension_Emergency Restoration and Service Drop WO					
Project Tracking #		NOC Outage INC#			
Project SO#					
IFB Contract Number	IFB # NoaNet_ 2026-015				
		South Central Region			
Project Locations					
City, State Zip					
NoaNet Osp Engineer POC					
Phone Number and Email					
Property Owner POC					
Phone Number and Email					
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. Contractor will need to file intent to pay prevailing wage with Washington State Labor & Industry before the start of work. Contractor will also need to provide an insurance certificate naming NoaNet as the additionally insured. Terms & conditions of this quotation & subsequent billing are required.					
Project Scope Of Work:					
Joint Use & Permitting					
Joint Use Attachments by Owner:					
State Permitting Agency:					
ROW Permitting by County:					
ROW Permitting by City:					
Call-Out Emergency Restoration Units					
Annual Call-Out Quantities	UOM	Construction code	Description	Unit Price	
420	Per Hour	Emergency Dispatched	Fiber Splicer Restoration, Single Person		
210	Per Hour OT Rate	Emergency Dispatched	Fiber Splicer Restoration, Single Person, Overtime Rate		
385	Per Hour	Emergency Dispatched	Fibers Splicer Restoration, Two Person Crew		
173	Per Hour OT Rate	Emergency Dispatched	Fibers Splicer Restoration, Two Person Crew, Overtime Rate		
657	Per Hour	Emergency Dispatched	Aerial Restoration, One to three Person Crew		
320	Per Hour OT Rate	Emergency Dispatched	Aerial Restoration, One to three Person Crew, Overtime Rate		
180	Per Hour	Emergency Dispatched	Buried Restoration, One to three Person Crew		
35	Per Hour OT Rate	Emergency Dispatched	Buried Restoration, One to three Person Crew, Overtime Rate		
0	Per Hour	Emergency Dispatched	Driver / Lowboy, Tractor-Trailer		
0	Per Hour OT Rate	Emergency Dispatched	Driver / Lowboy, Tractor-Trailer, Overtime Rate		
Additional Unit Hours-Call Out					
Annual Call-Out Quantities	UOM	Construction code	Description	Unit Price	
18	Flat Rate	MOB Fee	Call-Out/Mobilize Crew to Work Location Fee (One Time Fee for each call-out)		
Underground Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
8240	Lineal Foot	BTP-(1'--100')	Trench and Place (SCH, SDR,Conduit) 36" Cover		
1250	Lineal Foot	BTP-(101'-- Above)	Trench and Place(SCH, SDR,Conduit) 36" Cover, 101' and Above		
17	Lineal Foot Adder	BTP 1	Trench Additional 1' Depth Increments over 3' Depth		
325	Lineal Foot	BTR	Trench and Relocate Fiber		
80	Lineal Foot	BRP	Rock Breaking or Sawing up to 3' depth		
65	Lineal Foot	BHP	Hand trenching		
470	Lineal Foot	BFV	Plow & Place facilities at 36"Depth		
580	Lineal Foot	BDB(2")	Directional Bore up to a 2" hole, 1 foot - 250 feet		
785	Lineal Foot	BDB(2")-1	Directional Bore up to a 2" hole, 251 feet and Above		
0	Lineal Foot	BDB(4")	Directional Bore up to a 4" size hole, 1 Foot-250 Feet		
0	Lineal Foot	BDB(4")-1	Directional Bore up to a 4" size hole, 251 feet and Above		
280	Lineal Foot	BDC(2")	Directional Bore Cobble up to a 2" hole, 1 foot - 250 feet		
373	Lineal Foot	BDC(2")-1	Directional Bore Cobble up to a 2" hole, 251 feet and Above		
0	Lineal Foot	BDC(4")	Directional Bore Cobble up to a 4" size hole, 1 Foot-250 Feet		
0	Lineal Foot	BDC(4")-1	Directional Bore Cobble up to a 4" size hole, 251 feet and Above		
410	Lineal Foot	BDR(2")	Directional Bore Rock up to a 2" size hole, 1 Foot-250 Feet		
60	Lineal Foot	BDR(2")-1	Directional Bore Rock up to a 2" size hole, 251 feet and Above		
0	Lineal Foot	BDR(4")	Directional Bore Rock, up to a 4" size hole, 1 foot - 250 Feet		
0	Lineal Foot	BDR(4")-1	Directional Bore Rock, up to a 4" size hole, 251 feet and Above		
30	Each	PH	Pothole Existing Utilities, 0 to 5 (includes restoration)		
10	Each	PTH+	Pothole Existing Utilities, 6 and above (includes restoration)		
0	Lineal Foot	BPD	Jack / Push, Dry Bore up to 4" Steel Casing		
80	Lineal Foot	BCC	Concrete Encasement		
60	Lineal Foot	PMB	Pneumatic Missile boring, a trenchless method (Short sections Only)		
123	Each	UHF(17x30x24)T-22	Underground Handhole Placement, small, 17x30x24, Tier 22		
80	Each	UHF(30x48x36)T-22	Underground Handhole Placement, large, 30x48x36 Tier 22		
3	Each	UVF(4x4x4)(T)	Underground Vault placement, 48x48x48 concrete with traffic-rated steel lid		
11	Each	Bollard Installation	Installation of a protection Bollard		
8	Each	UHF-R	Underground Handhole Relocation		
0	Each	UVF-R	Underground Vault Relocation		
256	Square Foot	BM72	Asphalt Remove & Restoration		
400	Square Foot	BM73	Concrete Remove & Restore		
7380	Lineal Foot	BRR	Rod, Blow and Rope pre-existing Conduit		
14760	Lineal Foot	PLUF(x)l	Pull Fiber Cable thru Conduit (x-Size of Fiber Placed)		
0	Lineal Foot	BCP	Blow Fiber Cable thru Duct		
18250	Lineal Foot	UGLW	Place one #12 AWG EHS copper Clad steel coated locate wire, 500 feet or above. (Locatable mule tape is not accepted)		
7	Each	BM2	Ground Rod Install and assembly		
720	Square Foot	Ground Restoration	Ground restoration to include, Sod, gravel, fill dirt ect-Restore areas to like/better condition. All required labor/materials included.		
Aerial Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
360	Per Attachment	APT	Pole Transfer (Straight)		

25	Per Attachment	APG	Pole Transfer (Angle)		
17	Per Location	APD	Pole Transfer (Dead End)		
32	Per Location	APD-1	Pole Transfer (Double-Dead End)		
18	Per Location	XPOLE	Pole Removal		
3	Per Location	POLE	Set New Pole		
7	Per Location	BAND	Band to Non-Wood Pole		
15	Per Anchor	PF3-7	Screw Anchor Placement New, 16,000 LB		
35	Per Anchor	PF2-7	Plate Anchor Placement New, 16,000 LB		
5	Per Anchor	PF5-3	Rock Anchor Placement New, 16,000 LB		
0	Per Anchor	PF1-7	Expanding Anchor Placement New, 16,000 LB		
12	Per Anchor	PM12(x)	Side Walk Anchor Placement New (x-Length of Arm)		
17	Per Location	APA-1	Anchor Transfer and or Removal		
4630	Per Strand Foot	PE2-2	Place Overhead Guy 6M EHS		
1280	Per Strand Foot	PE1-2	Place 6M EHS Gown Guy		
13760	Per Strand Foot	ALS	Lash One Fiber Optic Cable (Includes Storage)		
8220	Per Strand Foot	ALS-1	Lash Additional Fiber Optic Cables (Includes Storage)		
3850	Per Fiber Cable Ft	ALD	Delash & Relash Fiber Cable		
16350	Per Fiber Cable Ft	ADS	ADSS Fiber Relocation		
763	Per Fiber Cable Ft	ADP	ADSS Fiber Placement		
40	Per Fiber Cable Ft	DAMP	Place Vibration Wind Dampner		
3200	Per Fiber Cable Ft	ADR	Aerial or UG Fiber Wreckout		
350	Per Strand Foot	AXM	Wreckout Strand, Hardware and X-Arms		
17	Per Location	PM4	Place New or Transfer X-Arms Wood or Composite(PUPI)		
15	Per Location	PM4-A	Place New or Transfer Fiberglass Arm (Any Size)		
35	Each	ARR	Place New Riser up to 4"		
7	Each	ARR-1	Transfer Existing Riser up to 4"		
3	Each	ARR-2	Removal of Existing Riser		
6	Each	BM51(x)	Install Multi-Service Terminal (MST,OFDC,Yellow Jacket)		
670	Lineal Foot	R3-5	Tree Trimming (See unit Description)		
Fiber Splicing/OTDR Testing Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
85	Each Location	HUOF	Placement of New Underground/Aerial Splice Closure		
450	Each Closure	SPC	Splice Closure, Re-Entry		
160	Each Closure	SPC-1	Splice Closure/Cable Prep (New Cable Prep) (Any splice closure)		
365	Each Splice	HO1 (1-12)	Splice and Test Fiber (1-12)		
120	Each Splice	HO1-(13-24)	Splice and Test Fiber (13-24)		
410	Each Splice	HO1-(25-48)	Splice and Test Fiber (25-48)		
1920	Each Splice	HO1-(49 and Above)	Splice and Test Fiber (49 and Above)		
135	Each Closure	SPR	Ring Cut or Mid-Entry Prep		
320	Per End Tested	SPT	Test Fiber, OTDR Acceptance Testing		
15	Flat Rate	MOP	After Hours MOP		
45	Per Location	SPC-LWR	Lower Aerial splice case for Splicing and Re-Hang		
35	Flat Rate	STU	Splicer Travel Unit (> 50 miles from designated storage yards per zone)		
160	Each	FTP	Installation Fiber patch panel (Rack-mount) or (Back-board mount)		
MPOE Building Entrance Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
1250	Per Foot	SIFOT	Building Fiber Cable Placement		
120	Per Foot	SIFOT-A	Building Attic Fiber Cable Placement		
80	Per Foot	SIFCT	Building Fiber Cable Placement EMT		
315	Per Foot	BLDG-EMT	Building EMT conduit placement		
60	Each	CSFOD	Core Drill, Building or Wall Penetration, wood		
35	Each	CSFOD-1	Core Drill, Building or Wall Penetration, concrete		
3	Each	CABCL	Cell Site Cabinet (Charles, American Product, etc)		
Permitting /Make Ready / Easement Units-(To be used If Requested by NoaNet)					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
3	Each	EASM	Easement and Consent Acquisition		
15	Each	CROW	City / County-ROW Permits		
20	Each	WROW	WSDOT Permits		
7	Each	RROW	Railroad Utility Crossing Permits		
City/County/WSDOT/ODOT Traffic Control					
250	Per Hour	TRA	Traffic Control Crew		
80	Per Hour OT Rate	TRA-OT	Traffic Control Crew-Overtime Rate		
Engineering and Related Services (To be used If Requested by NoaNet)					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
0	Each	UPDA-1	Utility Pole Data Collection & Application 1 to 10 poles		
0	Each	UPDA-2	Utility Pole Data Collection & Application 11 to 100 poles		
0	Per Foot	FD CD	Field, Engineer, Design, CAD up to 2500 ft		
0	Per Foot	FD CD-1	Field, Engineer, Design, CAD 2501 ft -5000 ft		
0	Per Foot	FD CD-2	Field, Engineer, Design, CAD 5001 ft-25000 ft		
0	Per Hour	PREFD	OSP Pre-Fielding Engineer and vehicle		
NoaNet Provide Materials					
	UOM	Unit code	Descriptions		
	Per Foot	2F-Flat Drop	Fiber, 2CT Flat Drop		
	Per Foot	6F-Armored	Fiber, 6CT, Armored, OFS, AT-3CEH2YT-006		
	Per Foot	12F-Armored	Fiber, 12CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	24F-Armored	Fiber, 24CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	48F-Armored	Fiber, 48CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	96F-Armored	Fiber, 96CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	144F-Armored	Fiber, 96CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	288F-Armored	Fiber, 96CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	432F-Armored	Fiber, 144CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	48F-ADSS	Fiber, 48CT, ADSS, OFS,Corning, Fujikara, AFL, Molex,ect		
	Per Foot	96F-ADSS	Fiber, 96CT, ADSS, OFS,Corning, Fujikara, AFL, Molex,ect		
	Per Foot	144F-ADSS	Fiber, 144CT, ADSS, OFS,Corning, Fujikara, AFL, Molex, ect		
	Per Foot	288F-ADSS	Fiber, 288CT, ADSS, OFS,Corning, Fujikara, AFL, Molex,ect		
	Per Foot	432F-ADSS	Fiber, 432CT, ADSS, OFS,Corning, Fujikara, AFL, Molex,ect		
Contractor Provided Materials Per NoaNet Requirements					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
11,325	Per Foot		Misc conduit (Sch.40/SDR-11/13.5/Pin Point locatable) 2"		
0	Per Foot		Misc conduit (Sch.40/SDR-11/13.5/ Pin Point Locatable) 4"		
120	Per Foot		Misc conduit (Sch.80/SDR-11) 2"--(WSDOT Crossings Only)		
0	Per Foot		Misc conduit (Sch.80/SDR-11) 4"--(WSDOT Crossings Only)		
425	Per Foot		Misc conduit (EMT), 1-1/2"/2"		
55	Each		Jackmoon Conduit Plugs, (Multiple Variations Required)1-1/2" -2" options		
160	Each		Fiber Patch Panel (Backboard Mount, Rack Mount)		
10	Each		3/4-Plywood Backboard Painted-(Per Request-Various sizes, 2x2, 3x3, 4x4, 4x8)		
110	Each		Splice Case-(Large Size Dome Closure) PLP/AFL Apex/ FOSC Options		
50	Each		Splice Case-(Medium Size Dome Closure) PLP/ AFL Apex/ FOSC Options		
60	Each		Splice Case-(Small Size Dome Closure) PLP/ Apex/ FOSC Options		
35	Each		Inline Aerial Fiber Storage-(Snow-Shoes)Pair		
80	Each		Fiber Route Marker (Round Dome)with company Logo		

25	Each		Fiber Route Marker Test Station (Top Hat Test Station)with company Logo		
7	Each		Protection Bollard with steel, concrete & the sleeve material		
5720	Per Foot		Galvanized Strand, 1/4"- EHS,6.6M		
65	Each		Pole Line Hardware (ADSS Attachments)		
7	Each		Non-Wood Pole Banding Material		
120	Each		Pole Line Hardware (Strand-Lash Attachments)		
17	Each		PUPI Arm Heavy Fiberglass 60" Tangent		
0	Each		PUPI Arm Fiberglass 60" Tangent		
3	Each		PUPI Arm Fiberglass Dead-End 8' 4" S4000		
155	Each		OldCastle/ Channell HandHole, Small 24 x 24 x 24 (HDPE, Polymer Concrete T22)with company		
85	Each		OldCastle/ Channell HandHole, Large 30 x 48 x 36 (HDPE,Polymer Concrete T22)with company L		
0	Each		CommScope OFDC C-12 Series Terminals		
5	Each		MST Terminal 500' tail. HST-B8-HNB-0500H(U,S)500'		
3	Each		MST Terminal 1,000' tail. HST-B8-HNB-10000H(U,S)1000'		
0	Each		Channell G-6 Dome Distribution Terminal		
18	Each		PCD Drop, Flat - Locatable, 400' Length. FHD-HN1B-0400F		
0	Each		PCD Drop, Flat - Locatable, 600' Length. FHD-HN1B-0600F		
0	Each		PCD Drop, Flat - Locatable, 800' Length. FHD-HN1B-0800F		
8	Each		PCD Drop, Flat - Locatable, 1000' Length. FHD-HN1B-1000F		
Contractor Cost Plus 15% (To be Use if requested by Noanet)					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
0	Per Project Location	FCT	Fiber Characterization testing (NoaNet Engineer Request Specific Per Project)-Cost plus 15%		
2	Per Project Location	POLE	New Pole-(Size & class Per NN request) Cost plus 15%		
2	Per Project Location	FDH Placement	Install (1) Fiber Distribution Hub (FDH) - Includes all labor to place (1) H-Frame or slab mounted FDH, (1) 30"x48" Vault and (2) 4" SCH-40 PVC pipe to connect vault to FDH Cost plus 15%		
0	Each	Fiber Tags	Cable marker Tags (wrappable) With Company Info (NoaNet Approved For Ordering Only)		
2	Per Project Location	BM66	Bridge Attachment Assembly Unit- Cost plus 15%		
0	Per Project Location	SCH-Casing (3)	Place in (4" SCH) Casing, 3-1-1/4" innerducts(Orange,Green,Red)		
0	Per Project Location	PF6-4	Swamp Anchor Placement New, 12" Diamater-Cost plus 15%		
2	Per Project Location	TRV	Vault, Large, 4'x4'x4'(Old Castle Traffic Rated)with company Logo		
0	Per Project Location	Misc	Miscellaneous material cost plus 15% (must have receipt)		
0	Per Project Location	TCP-Complex	Traffic Control Plan-Complex Crew estimate Per NN Engineer request-Cost plus 15%		
	Per Project Location	Misc			



IFB # NoaNet_ 2026-015 Lateral Extension_Emergency Restoration and Service Drop WO					
Project Tracking #		NOC Outage INC#			
Project SO#					
IFB Contract Number	IFB # NoaNet_ 2026-015				
		Southwest Region			
Project Locations					
City, State Zip					
NoaNet Osp Engineer POC					
Phone Number and Email					
Property Owner POC					
Phone Number and Email					
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. Contractor will need to file intent to pay prevailing wage with Washington State Labor & Industry before the start of work. Contractor will also need to provide an insurance certificate naming NoaNet as the additionally insured. Terms & conditions of this quotation & subsequent billing are required.					
Project Scope Of Work:					
Joint Use & Permitting					
Joint Use Attachments by Owner:					
State Permitting Agency:					
ROW Permitting by County:					
ROW Permitting by City:					
Call-Out Emergency Restoration Units					
Annual Call-Out Quantities	UOM	Construction code	Description	Unit Price	
420	Per Hour	Emergency Dispatched	Fiber Splicer Restoration, Single Person		
210	Per Hour OT Rate	Emergency Dispatched	Fiber Splicer Restoration, Single Person, Overtime Rate		
385	Per Hour	Emergency Dispatched	Fibers Splicer Restoration, Two Person Crew		
173	Per Hour OT Rate	Emergency Dispatched	Fibers Splicer Restoration, Two Person Crew, Overtime Rate		
657	Per Hour	Emergency Dispatched	Aerial Restoration, One to three Person Crew		
320	Per Hour OT Rate	Emergency Dispatched	Aerial Restoration, One to three Person Crew, Overtime Rate		
180	Per Hour	Emergency Dispatched	Buried Restoration, One to three Person Crew		
35	Per Hour OT Rate	Emergency Dispatched	Buried Restoration, One to three Person Crew, Overtime Rate		
0	Per Hour	Emergency Dispatched	Driver / Lowboy, Tractor-Trailer		
0	Per Hour OT Rate	Emergency Dispatched	Driver / Lowboy, Tractor-Trailer, Overtime Rate		
Additional Unit Hours-Call Out					
Annual Call-Out Quantities	UOM	Construction code	Description	Unit Price	
18	Flat Rate	MOB Fee	Call-Out/Mobilize Crew to Work Location Fee (One Time Fee for each call-out)		
Underground Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
8240	Lineal Foot	BTP-(1'--100')	Trench and Place (SCH, SDR,Conduit) 36" Cover		
1250	Lineal Foot	BTP-(101'-- Above)	Trench and Place(SCH, SDR,Conduit) 36" Cover, 101' and Above		
17	Lineal Foot Adder	BTP 1	Trench Additional 1' Depth Increments over 3' Depth		
325	Lineal Foot	BTR	Trench and Relocate Fiber		
80	Lineal Foot	BRP	Rock Breaking or Sawing up to 3' depth		
65	Lineal Foot	BHP	Hand trenching		
470	Lineal Foot	BFV	Plow & Place facilities at 36"Depth		
580	Lineal Foot	BDB(2")	Directional Bore up to a 2" hole, 1 foot - 250 feet		
785	Lineal Foot	BDB(2")-1	Directional Bore up to a 2" hole, 251 feet and Above		
0	Lineal Foot	BDB(4")	Directional Bore up to a 4" size hole, 1 Foot-250 Feet		
0	Lineal Foot	BDB(4")-1	Directional Bore up to a 4" size hole, 251 feet and Above		
280	Lineal Foot	BDC(2")	Directional Bore Cobble up to a 2" hole, 1 foot - 250 feet		
373	Lineal Foot	BDC(2")-1	Directional Bore Cobble up to a 2" hole, 251 feet and Above		
0	Lineal Foot	BDC(4")	Directional Bore Cobble up to a 4" size hole, 1 Foot-250 Feet		
0	Lineal Foot	BDC(4")-1	Directional Bore Cobble up to a 4" size hole, 251 feet and Above		
410	Lineal Foot	BDR(2")	Directional Bore Rock up to a 2" size hole, 1 Foot-250 Feet		
60	Lineal Foot	BDR(2")-1	Directional Bore Rock up to a 2" size hole, 251 feet and Above		
0	Lineal Foot	BDR(4")	Directional Bore Rock, up to a 4" size hole, 1 foot - 250 Feet		
0	Lineal Foot	BDR(4")-1	Directional Bore Rock, up to a 4" size hole, 251 feet and Above		
30	Each	PH	Pothole Existing Utilities, 0 to 5 (includes restoration)		
10	Each	PTH+	Pothole Existing Utilities, 6 and above (includes restoration)		
0	Lineal Foot	BPD	Jack / Push, Dry Bore up to 4" Steel Casing		
80	Lineal Foot	BCC	Concrete Encasement		
60	Lineal Foot	PMB	Pneumatic Missile boring, a trenchless method (Short sections Only)		
123	Each	UHF(17x30x24)T-22	Underground Handhole Placement, small, 17x30x24, Tier 22		
80	Each	UHF(30x48x36)T-22	Underground Handhole Placement, large, 30x48x36 Tier 22		
3	Each	UVF(4x4x4)(T)	Underground Vault placement, 48x48x48 concrete with traffic-rated steel lid		
11	Each	Bollard Installation	Installation of a protection Bollard		
8	Each	UHF-R	Underground Handhole Relocation		
0	Each	UVF-R	Underground Vault Relocation		
256	Square Foot	BM72	Asphalt Remove & Restoration		
400	Square Foot	BM73	Concrete Remove & Restore		
7380	Lineal Foot	BRR	Rod, Blow and Rope pre-existing Conduit		
14760	Lineal Foot	PLUF(x)l	Pull Fiber Cable thru Conduit (x-Size of Fiber Placed)		
0	Lineal Foot	BCP	Blow Fiber Cable thru Duct		
18250	Lineal Foot	UGLW	Place one #12 AWG EHS copper Clad steel coated locate wire, 500 feet or above. (Locatable mule tape is not accepted)		
7	Each	BM2	Ground Rod Install and assembly		
720	Square Foot	Ground Restoration	Ground restoration to include, Sod, gravel, fill dirt ect-Restore areas to like/better condition. All required labor/materials included.		
Aerial Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
360	Per Attachment	APT	Pole Transfer (Straight)		

25	Per Attachment	APG	Pole Transfer (Angle)		
17	Per Location	APD	Pole Transfer (Dead End)		
32	Per Location	APD-1	Pole Transfer (Double-Dead End)		
18	Per Location	XPOLE	Pole Removal		
3	Per Location	POLE	Set New Pole		
7	Per Location	BAND	Band to Non-Wood Pole		
15	Per Anchor	PF3-7	Screw Anchor Placement New, 16,000 LB		
35	Per Anchor	PF2-7	Plate Anchor Placement New, 16,000 LB		
5	Per Anchor	PF5-3	Rock Anchor Placement New, 16,000 LB		
0	Per Anchor	PF1-7	Expanding Anchor Placement New, 16,000 LB		
12	Per Anchor	PM12(x)	Side Walk Anchor Placement New (x-Length of Arm)		
17	Per Location	APA-1	Anchor Transfer and or Removal		
4630	Per Strand Foot	PE2-2	Place Overhead Guy 6M EHS		
1280	Per Strand Foot	PE1-2	Place 6M EHS Gown Guy		
13760	Per Strand Foot	ALS	Lash One Fiber Optic Cable (Includes Storage)		
8220	Per Strand Foot	ALS-1	Lash Additional Fiber Optic Cables (Includes Storage)		
3850	Per Fiber Cable Ft	ALD	Delash & Relash Fiber Cable		
16350	Per Fiber Cable Ft	ADS	ADSS Fiber Relocation		
763	Per Fiber Cable Ft	ADP	ADSS Fiber Placement		
40	Per Fiber Cable Ft	DAMP	Place Vibration Wind Dampner		
3200	Per Fiber Cable Ft	ADR	Aerial or UG Fiber Wreckout		
350	Per Strand Foot	AXM	Wreckout Strand, Hardware and X-Arms		
17	Per Location	PM4	Place New or Transfer X-Arms Wood or Composite(PUPI)		
15	Per Location	PM4-A	Place New or Transfer Fiberglass Arm (Any Size)		
35	Each	ARR	Place New Riser up to 4"		
7	Each	ARR-1	Transfer Existing Riser up to 4"		
3	Each	ARR-2	Removal of Existing Riser		
6	Each	BM51(x)	Install Multi-Service Terminal (MST,OFDC,Yellow Jacket)		
670	Lineal Foot	R3-5	Tree Trimming (See unit Description)		
Fiber Splicing/OTDR Testing Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
85	Each Location	HUOF	Placement of New Underground/Aerial Splice Closure		
450	Each Closure	SPC	Splice Closure, Re-Entry		
160	Each Closure	SPC-1	Splice Closure/Cable Prep (New Cable Prep) (Any splice closure)		
365	Each Splice	HO1 (1-12)	Splice and Test Fiber (1-12)		
120	Each Splice	HO1-(13-24)	Splice and Test Fiber (13-24)		
410	Each Splice	HO1-(25-48)	Splice and Test Fiber (25-48)		
1920	Each Splice	HO1-(49 and Above)	Splice and Test Fiber (49 and Above)		
135	Each Closure	SPR	Ring Cut or Mid-Entry Prep		
320	Per End Tested	SPT	Test Fiber, OTDR Acceptance Testing		
15	Flat Rate	MOP	After Hours MOP		
45	Per Location	SPC-LWR	Lower Aerial splice case for Splicing and Re-Hang		
35	Flat Rate	STU	Splicer Travel Unit (> 50 miles from designated storage yards per zone)		
160	Each	FTP	Installation Fiber patch panel (Rack-mount) or (Back-board mount)		
MPOE Building Entrance Units					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
1250	Per Foot	SIFOT	Building Fiber Cable Placement		
120	Per Foot	SIFOT-A	Building Attic Fiber Cable Placement		
80	Per Foot	SIFCT	Building Fiber Cable Placement EMT		
315	Per Foot	BLDG-EMT	Building EMT conduit placement		
60	Each	CSFOD	Core Drill, Building or Wall Penetration, wood		
35	Each	CSFOD-1	Core Drill, Building or Wall Penetration, concrete		
3	Each	CABCL	Cell Site Cabinet (Charles, American Product, etc)		
Permitting /Make Ready / Easement Units-(To be used If Requested by NoaNet)					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
3	Each	EASM	Easement and Consent Acquisition		
15	Each	CROW	City / County-ROW Permits		
20	Each	WROW	WSDOT Permits		
7	Each	RROW	Railroad Utility Crossing Permits		
City/County/WSDOT/ODOT Traffic Control					
250	Per Hour	TRA	Traffic Control Crew		
80	Per Hour OT Rate	TRA-OT	Traffic Control Crew-Overtime Rate		
Engineering and Related Services (To be used If Requested by NoaNet)					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
0	Each	UPDA-1	Utility Pole Data Collection & Application 1 to 10 poles		
0	Each	UPDA-2	Utility Pole Data Collection & Application 11 to 100 poles		
0	Per Foot	FD CD	Field, Engineer, Design, CAD up to 2500 ft		
0	Per Foot	FD CD-1	Field, Engineer, Design, CAD 2501 ft -5000 ft		
0	Per Foot	FD CD-2	Field, Engineer, Design, CAD 5001 ft-25000 ft		
0	Per Hour	PREFD	OSP Pre-Fielding Engineer and vehicle		
NoaNet Provide Materials					
	UOM	Unit code	Descriptions		
	Per Foot	2F-Flat Drop	Fiber, 2CT Flat Drop		
	Per Foot	6F-Armored	Fiber, 6CT, Armored, OFS, AT-3CEH2YT-006		
	Per Foot	12F-Armored	Fiber, 12CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	24F-Armored	Fiber, 24CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	48F-Armored	Fiber, 48CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	96F-Armored	Fiber, 96CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	144F-Armored	Fiber, 96CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	288F-Armored	Fiber, 96CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	432F-Armored	Fiber, 144CT, Armored, OFS,Corning, Fujikara, AFL,MOLEX ect		
	Per Foot	48F-ADSS	Fiber, 48CT, ADSS, OFS,Corning, Fujikara, AFL, Molex,ect		
	Per Foot	96F-ADSS	Fiber, 96CT, ADSS, OFS,Corning, Fujikara, AFL, Molex,ect		
	Per Foot	144F-ADSS	Fiber, 144CT, ADSS, OFS,Corning, Fujikara, AFL, Molex, ect		
	Per Foot	288F-ADSS	Fiber, 288CT, ADSS, OFS,Corning, Fujikara, AFL, Molex,ect		
	Per Foot	432F-ADSS	Fiber, 432CT, ADSS, OFS,Corning, Fujikara, AFL, Molex,ect		
Contractor Provided Materials Per NoaNet Requirements					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
11,325	Per Foot		Misc conduit (Sch.40/SDR-11/13.5/Pin Point locatable) 2"		
0	Per Foot		Misc conduit (Sch.40/SDR-11/13.5/ Pin Point Locatable) 4"		
120	Per Foot		Misc conduit (Sch.80/SDR-11) 2"---(WSDOT Crossings Only)		
0	Per Foot		Misc conduit (Sch.80/SDR-11) 4"---(WSDOT Crossings Only)		
425	Per Foot		Misc conduit (EMT), 1-1/2"/2"		
55	Each		Jackmoon Conduit Plugs, (Multiple Variations Required)1-1/2" -2" options		
160	Each		Fiber Patch Panel (Backboard Mount, Rack Mount)		
10	Each		3/4-Plywood Backboard Painted-(Per Request-Various sizes, 2x2, 3x3, 4x4, 4x8)		
110	Each		Splice Case-(Large Size Dome Closure) PLP/AFL Apex/ FOSC Options		
50	Each		Splice Case-(Medium Size Dome Closure) PLP/ AFL Apex/ FOSC Options		
60	Each		Splice Case-(Small Size Dome Closure) PLP/ Apex/ FOSC Options		
35	Each		Inline Aerial Fiber Storage-(Snow-Shoes)Pair		
80	Each		Fiber Route Marker (Round Dome)with company Logo		

25	Each		Fiber Route Marker Test Station (Top Hat Test Station)with company Logo		
7	Each		Protection Bollard with steel, concrete & the sleeve material		
5720	Per Foot		Galvanized Strand, 1/4"- EHS,6.6M		
65	Each		Pole Line Hardware (ADSS Attachments)		
7	Each		Non-Wood Pole Banding Material		
120	Each		Pole Line Hardware (Strand-Lash Attachments)		
17	Each		PUPI Arm Heavy Fiberglass 60" Tangent		
0	Each		PUPI Arm Fiberglass 60" Tangent		
3	Each		PUPI Arm Fiberglass Dead-End 8' 4" S4000		
155	Each		OldCastle/ Channell HandHole, Small 24 x 24 x 24 (HDPE, Polymer Concrete T22)with company		
85	Each		OldCastle/ Channell HandHole, Large 30 x 48 x 36 (HDPE,Polymer Concrete T22)with company L		
0	Each		CommScope OFDC C-12 Series Terminals		
5	Each		MST Terminal 500' tail. HST-B8-HNB-0500H(U,S)500'		
3	Each		MST Terminal 1,000' tail. HST-B8-HNB-10000H(U,S)1000'		
0	Each		Channell G-6 Dome Distribution Terminal		
18	Each		PCD Drop, Flat - Locatable, 400' Length. FHD-HN1B-0400F		
0	Each		PCD Drop, Flat - Locatable, 600' Length. FHD-HN1B-0600F		
0	Each		PCD Drop, Flat - Locatable, 800' Length. FHD-HN1B-0800F		
8	Each		PCD Drop, Flat - Locatable, 1000' Length. FHD-HN1B-1000F		
Contractor Cost Plus 15% (To be Use if requested by Noanet)					
Annual Design Quantities	UOM	Unit code	Descriptions	Unit Price	
0	Per Project Location	FCT	Fiber Characterization testing (NoaNet Engineer Request Specific Per Project)-Cost plus 15%		
2	Per Project Location	POLE	New Pole-(Size & class Per NN request) Cost plus 15%		
2	Per Project Location	FDH Placement	Install (1) Fiber Distribution Hub (FDH) - Includes all labor to place (1) H-Frame or slab mounted FDH, (1) 30"x48" Vault and (2) 4" SCH-40 PVC pipe to connect vault to FDH Cost plus 15%		
0	Each	Fiber Tags	Cable marker Tags (wrappable) With Company Info (NoaNet Approved For Ordering Only)		
2	Per Project Location	BM66	Bridge Attachment Assembly Unit- Cost plus 15%		
0	Per Project Location	SCH-Casing (3)	Place in (4" SCH) Casing, 3-1-1/4" innerducts(Orange,Green,Red)		
0	Per Project Location	PF6-4	Swamp Anchor Placement New, 12" Diamater-Cost plus 15%		
2	Per Project Location	TRV	Vault, Large, 4'x4'x4'(Old Castle Traffic Rated)with company Logo		
0	Per Project Location	Misc	Miscellaneous material cost plus 15% (must have receipt)		
0	Per Project Location	TCP-Complex	Traffic Control Plan-Complex Crew estimate Per NN Engineer request-Cost plus 15%		
	Per Project Location	Misc			

UNIT DESCRIPTIONS

Unit Item	UOM	Description
Fiber Splicer Restoration, Single Person-Emergency Dispatched-		Involves dispatching a qualified technician to respond to a fiber optic service disruption or damage, performing restoration activities independently. This includes evaluating and preparing the work site, isolating the affected fibers, executing precise fiber splicing and testing procedures, and restoring service. The single-person unit covers the use of necessary tools and equipment, safety compliance, protection of existing infrastructure, and restoration of service with minimal disruption. All tasks required to restore fiber continuity are completed efficiently and to industry standards by one technician.
Fiber Splicer Restoration, Single Person-OT Rate-Emergency Dispatched-		Involves dispatching a qualified technician to respond to a fiber optic service disruption or damage, performing restoration activities independently. This includes evaluating and preparing the work site, isolating the affected fibers, executing precise fiber splicing and testing procedures, and restoring service. The single-person unit covers the use of necessary tools and equipment, safety compliance, protection of existing infrastructure, and restoration of service with minimal disruption.
Fiber Splicer Restoration, Two Person Crew-Emergency Dispatched-		Involves dispatching a qualified technician to respond to a fiber optic service disruption or damage, performing restoration activities as a crew. This includes evaluating and preparing the work site, isolating the affected fibers, executing precise fiber splicing and testing procedures, and restoring service. The two-person unit covers the use of necessary tools and equipment, safety compliance, protection of existing infrastructure, and restoration of service with minimal disruption.
Fiber Splicer Restoration, Two Person Crew-OT Rate-Emergency Dispatched-		Involves dispatching a qualified technician to respond to a fiber optic service disruption or damage, performing restoration activities as a crew. This includes evaluating and preparing the work site, isolating the affected fibers, executing precise fiber splicing and testing procedures, and restoring service. The two-person unit covers the use of necessary tools and equipment, safety compliance, protection of existing infrastructure, and restoration of service with minimal disruption.
Aerial Restoration, One to three Person Crew-Emergency Dispatched-		Refers to the deployment of a specialized team consisting of up to three technicians to address service disruptions at telecommunications facilities following outages, damage, or required maintenance. The work includes site assessment, securing traffic and safety zones, accessing aerial equipment using bucket trucks or ladders, and completing repairs such as cable replacement, splicing, pole hardware replacement, or reattachment of spans. The crew is responsible for restoring service, ensuring compliance with safety and quality standards, documenting the restoration, and minimizing disruption to network operations and public areas. All equipment and materials for restoration are managed and utilized by the crew as part of their work activities.
Aerial Restoration, One to three Person Crew-OT Rate-Emergency Dispatched-		Refers to the deployment of a specialized team consisting of up to three technicians to address service disruptions at telecommunications facilities following outages, damage, or required maintenance. The work includes site assessment, securing traffic and safety zones, accessing aerial equipment using bucket trucks or ladders, and completing repairs such as cable replacement, splicing, pole hardware replacement, or reattachment of spans. The crew is responsible for ensuring compliance with safety and quality standards, documenting the restoration, and minimizing disruption to network operations and public areas. All equipment and materials for restoration are managed and utilized by the crew as part of their work activities.
Buried Restoration, One to three Person Crew-Emergency Dispatched-		Involves dispatching a team of up to three technicians to repair and restore underground fiber optic or telecommunications infrastructure. The work includes locating and exposing damaged facilities, implementing necessary safety barriers, executing excavation by hand or with machinery, repairing the infrastructure, ensuring proper backfill and compaction. The crew restores the site in accordance with required standards, including surface repair for sod, gravel, or pavement. All safety, documentation, and restoration responsibilities are managed by this crew, ensuring the affected buried network segment is swiftly and professionally returned to service.
Buried Restoration, One to three Person Crew-OT Rate-Emergency Dispatched-		Involves dispatching a team of up to three technicians to repair and restore underground fiber optic or telecommunications infrastructure. The work includes locating and exposing damaged facilities, implementing necessary safety barriers, executing excavation by hand or with machinery, repairing the infrastructure, and ensuring proper backfill and compaction. The crew restores the site in accordance with required standards, including surface repair for sod, gravel, or pavement.

BTP (101'-Above)	Lineal Foot	BTP TRENCHING & PLACING Conduit” Trench and Place Facilities, 101' and Above- unit, measured per lineal foot, encloses all labor, equipment, and material handling required to excavate a trench with a minimum 36” cover for conduit installation—covering lengths specified in construction drawings and municipal permits. This work includes trench excavation, conduit placement for buried fiber optic installation, warning sign and marker placement, proofing and roping of the installed conduit, suitable backfilling and surface restoration (including gravel, sod, rock removal, and back blading) to match original conditions. The unit further includes temporary removal and full restoration. Each lineal foot incorporates every component and activity as a single unit.
BTP-1	Lineal Foot adder to BTP Unit	BTP-1-The “Trench and Place Additional 1' Depth Increments over 36" minimum Depth”- Unit covers all labor, equipment, and material handling to excavate a trench deeper than the typical minimum, specifically in additional 1-foot increments beyond 3 feet, to a depth specified in construction drawings and municipality permits. This unit includes placement of conduit, route markers, warning signs, and surface restoration in accordance with project requirements. It also provides for suitable backfill, thorough soil compaction, and complete sod surface restoration and all necessary fencing work such as temporary removal and final replacement. Every increment of 1 foot is billed as a separate unit.
BTR	Lineal foot	Trench and Relocate Fiber- This unit includes all labor, equipment, and material handling to expose existing and provide new conduit at the minimum depth of 36” cover. These units include the placement of buried conduit warning signs, marker tape, and surface restoration as specified on the construction drawings. Unit includes proofing and roping of newly installed conduit. The unit includes temporary removal, restoration and replacement, and any surface restoration of gravel, sod, or back blading. The contractor shall keep all trenches and excavations in safe condition for vehicular and pedestrian traffic until permitted by the municipality.
BRP	Lineal Foot	Rock Breaking or Sawing up to 3' Depth- These units include all labor, equipment, and material handling to provide a trench to a specified size/type/number of conduits. The minimum width will be 6” x 36" depth Minimum. The contractor must obtain a permit prior to the Contractor commencing work on this component. The placement of buried cable warning marker tape, backfill, and surface restoration as specified on the construction drawings. Unit includes proofing and roping of newly installed conduit. The unit includes temporary removal, restoration and replacement, and any surface restoration of gravel, sod, or back blading. The contractor shall keep all trenches and excavations in safe condition for vehicular and pedestrian traffic until permitted by the municipality.
BHP	lineal Foot	Hand Trenching- These units include the labor and equipment needed to perform hand trench excavation for placement of conduit or associated materials. Excavation is done using manual tools to achieve specified depth and width per project requirements. This unit includes existing buried utilities or where access for machinery is restricted. Typical depths could be from 12" to 36" depending on the project involved. Backfill with existing or suitable material and compacted to restore the surface. Final restoration matches the existing conditions.
BFV	Lineal Foot	Plow and Place Facilities- Pre-ripping shall precede all plowing when soil conditions are less than ideal for plowing. Especially where the soil contains obstructions like roots, rocks or highly compacted areas. See Specifications and Construction Drawings. A minimum width will be plowed as straight as possible terrain and obstaclels permitting. All restoration is included to pre-existing conditions.

BDB(2")	Lineal Foot	Directional Bore up to a 2" hole, 1 foot - 250 These units include all labor, equipment, and material handling to the bore (including intermediate bore pits), Bore Profiles, and material handling to directional bore the specified size up to 2" HDPE and 40 SDR to the minimum depth of 36" and distance specified on the construction drawings. These units include the removal 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, restoration and replacement, and restoration of bore pits compacted to their original pre-existing condition. Unit includes installed conduit. This unit will be paid based on total depth-to-depth footage based upon straight line stationing at each bore location. defined as the straight line footage between the point on bore entry at which the depth reaches 36 inches and the point measured from surface grade. Straight line stationing shall be determined by the NoaNet inspector by measuring the (depth to grade) of the bore using an appropriate measuring device and the construction drawings. All conduit couplings and valves included.
BDB(2")-1	Lineal Foot	Directional Bore up to a 2" hole, 251 feet, and Above-These units include all labor, equipment, and material handling to the bore (including exit, and intermediate bore pits), Bore Profiles, and material handling to directional bore the specified size up to 2" HDPE and 40 Pin-Point SDR to the minimum depth of 36" and distance specified on the construction drawings. These units include the removal 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, restoration and replacement, and restoration of bore pits compacted to their original pre-existing condition. Unit includes installed conduit. This unit will be paid based on total depth-to-depth footage based upon straight line stationing at each bore location. defined as the straight line footage between the point on bore entry at which the depth reaches 36 inches and the point measured from surface grade. Straight line stationing shall be determined by the NoaNet inspector by measuring the (depth to grade) of the bore using an appropriate measuring device and the construction drawings. All conduit couplings and valves included.
BDB(4")	Lineal Foot	Directional Bore up to a 4" size hole, 1 Foot-250 Feet These units include all labor, equipment, and material handling to the bore (including exit, and intermediate bore pits), Bore Profiles, and material handling to directional bore the specified size up to 4" HDPE and 40 Pin-Point SDR to the minimum depth of 36" and distance specified on the construction drawings. These units include the removal 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, restoration and replacement, and restoration of bore pits compacted to their original pre-existing condition. Unit includes installed conduit. This unit will be paid based on total depth-to-depth footage based upon straight line stationing at each bore location.

BDB(4")-1	Lineal Footage	Directional Bore up to a 4" size hole, 251 feet and Above- These units include all labor, equipment, and material handling (entry, exit, and intermediate bore pits), Bore Profiles, and material handling to directional bore the specified size up to the specified depth. Line Pin-Point SDR to the minimum depth of 36" and distance specified on the construction drawings. These units include disposal of any drilling fluids in accordance with the requirements of governmental authority. These units include placement of bores and bore extensions. These units include all fence work, including temporary removal, restoration and replacement of compacted to their original pre-existing condition. Unit includes proofing and roping of newly installed conduit. This unit is paid depth-to-depth footage based upon straight line stationing at each bore location. Depth-to-depth footage shall be determined between the point on bore entry at which the depth reaches 36 inches and the point on bore exit. All depths shall be determined by Straight line stationing shall be determined by the NoaNet inspector by measuring the running line footage (at surface) using an appropriate measuring device and the construction drawings. All conduit couplings and vault entry terminations are included. No compensation shall be made to the Contractor for unsuccessful bore attempts unless the specific attempt is approved by the Engineer. Bore profiles and logs will be included in the As-built submittals.
BDC(2")-2	Lineal Footage	Directional Bore Cobble — Directional Bore Cobble (up to a 2" size hole), 1 Foot–250 Feet, applies only when the Contractor encounters cobble or boulders in the bore to continue with a conventional boring head, requiring a directional boring machine equipped with tooling suited to complete the crossing. This unit is paid from the point at which the Contractor initiates cobble boring operations and includes all site access necessary to establish and work the entry, exit, and any intermediate bore pits required along the alignment. This unit includes boring of the specified size, number, and type of conduit or casing up to 4" in diameter, including proper removal and disposal in accordance with governing authority requirements, as well as all associated fence work — temporary removal, restoration, and replacement of bore route. Payment is based on total depth-to-depth footage, calculated on a straight-line stationing basis for each bore location. Depth-to-depth footage shall be determined as the straight-line distance between the point of bore entry where depth reaches 36 inches and the point of bore exit at surface grade. The NoaNet inspector determines straight-line stationing by measuring the running-line footage at surface using an appropriate measuring device referencing the construction drawings. No compensation is made for unsuccessful bore attempts.
BDC(2")-1	Lineal Footage	Directional Bore Cobble — Directional Bore Cobble (up to a 2" size hole), 251 Foot and above, applies only when the Contractor encounters cobble or boulders in the bore to continue with a conventional boring head, requiring a directional boring machine equipped with tooling suited to complete the crossing. This unit is paid from the point at which the Contractor initiates cobble boring operations and includes all site access necessary to establish and work the entry, exit, and any intermediate bore pits required along the alignment. This unit includes boring of the specified size, number, and type of conduit or casing up to 4" in diameter, including proper removal and disposal in accordance with governing authority requirements, as well as all associated fence work — temporary removal, restoration, and replacement of bore route. Payment is based on total depth-to-depth footage, calculated on a straight-line stationing basis for each bore location. Depth-to-depth footage shall be determined as the straight-line distance between the point of bore entry where depth reaches 36 inches and the point of bore exit at surface grade. The NoaNet inspector determines straight-line stationing by measuring the running-line footage at surface using an appropriate measuring device referencing the construction drawings. No compensation is made for unsuccessful bore attempts.

BDC(4")	Lineal Footage	Directional Bore Cobble — Directional Bore Cobble (up to a 4" size hole), 1 Foot–250 Feet, applies only when the Contractor encounters cobble on the bore to continue with a conventional boring head, requiring a directional boring machine equipped with tooling suited to complete the crossing. This unit is paid from the point at which the Contractor initiates cobble boring operations and includes site access necessary to establish and work the entry, exit, and any intermediate bore pits required along the alignment. This unit includes boring of the specified size, number, and type of conduit or casing up to 4" in diameter, including proper removal and disposal in accordance with governing authority requirements, as well as all associated fence work — temporary removal, restoration, and repair of bore route. Payment is based on total depth-to-depth footage, calculated on a straight-line stationing basis for each bore location. Stationing shall be defined as the straight-line distance between the point of bore entry where depth reaches 36 inches and the point of bore exit at surface grade. The NoaNet inspector determines straight-line stationing by measuring the running-line footage at surface grade using a measuring device, referencing the construction drawings. No compensation is made for unsuccessful bore attempts.
BDC(4")-1	Lineal Footage	Directional Bore Cobble Directional Bore Cobble (up to a 4" size hole), 251 Foot–and above, applies only when the Contractor encounters cobble on the bore to continue with a conventional boring head, requiring a directional boring machine equipped with tooling suited to complete the crossing. This unit is paid from the point at which the Contractor initiates cobble boring operations and includes site access necessary to establish and work the entry, exit, and any intermediate bore pits required along the alignment. This unit includes boring of the specified size, number, and type of conduit or casing up to 4" in diameter, including proper removal and disposal in accordance with governing authority requirements, as well as all associated fence work — temporary removal, restoration, and repair of bore route. Payment is based on total depth-to-depth footage, calculated on a straight-line stationing basis for each bore location. Stationing shall be defined as the straight-line distance between the point of bore entry where depth reaches 36 inches and the point of bore exit at surface grade. The NoaNet inspector determines straight-line stationing by measuring the running-line footage at surface grade using a measuring device, referencing the construction drawings. No compensation is made for unsuccessful bore attempts.
BDR(2")	Lineal Foot	Directional Bore Rock up to a 2" size hole, 1 Foot-250 Feet- These units shall apply only when the Contractor encounters rock on the bore to continue with a conventional boring head and a rock directional boring machine is required. This unit shall be paid from the point at which the Contractor initiates rock boring operations and includes site access necessary to establish and work the entry, exit, and intermediate bore pits required along the alignment. This unit includes boring of the specified size, number, and type of conduit or casing up to 4" Unit includes the removal and disposal in accordance with the requirements of governmental authority. Include all fence work, including temporary removal, restoration, and repair of bore route. This unit will be paid on the basis of total depth-to-depth footage based upon straight line stationing at each bore location. Stationing shall be defined as the straight line footage between the point on bore entry at which the depth reaches 36 inches and the point of bore exit at surface grade. Straight line stationing shall be determined by the NoaNet inspector by measuring the running-line footage (at surface grade) of the bore using an appropriate measuring device and the construction drawings. No compensation shall be made for unsuccessful bore attempts.

BDR(2")-1	Lineal Footage	Directional Bore Rock up to a 2" size hole, 251 feet and Above- These units shall apply only when the Contractor encounters rock and the bore to continue with a conventional boring head and a rock directional boring machine is required. This unit shall be paid for from the time the contractor starts. This unit includes all labor, equipment, access to the bore site (including entry, exit, and intermediate access), handling to directional bore the specified size, number, and type of conduit or casing up to 2" Unit includes the removal of drilling fluids in accordance with the requirements of governmental authority. Include all fence work, including temporary removal and replacement. This unit will be paid on the basis of total depth-to-depth footage based upon straight line stationing at the point of entry to depth footage shall be defined as the straight line footage between the point on bore entry at which the depth reaches the exit. All depths shall be measured from surface grade. Straight line stationing shall be determined by the NoaNet inspection.
BDR(4")	Lineal Foot	Directional Bore Rock, up to a 4" size hole, 1 foot - 250 Feet- These units shall apply only when the Contractor encounters rock and the bore to continue with a conventional boring head and a rock directional boring machine is required. This unit shall be paid for from the time the contractor starts. This unit includes all labor, equipment, access to the bore site (including entry, exit, and intermediate access), handling to directional bore the specified size, number, and type of conduit or casing up to 4" Unit includes the removal of drilling fluids in accordance with the requirements of governmental authority. Include all fence work, including temporary removal and replacement. This unit will be paid on the basis of total depth-to-depth footage based upon straight line stationing at the point of entry to depth footage shall be defined as the straight line footage between the point on bore entry at which the depth reaches the exit. All depths shall be measured from surface grade. Straight line stationing shall be determined by the NoaNet inspection.
BDR(4")-1	Lineal Footage	Directional Bore Rock, up to a 4" size hole, 251 feet and Above-These units shall apply only when the Contractor encounters rock and the bore to continue with a conventional boring head and a rock directional boring machine is required. This unit shall be paid for from the time the contractor starts. This unit includes all labor, equipment, access to the bore site (including entry, exit, and intermediate access), handling to directional bore the specified size, number, and type of conduit or casing up to 4" Unit includes the removal of drilling fluids in accordance with the requirements of governmental authority. Include all fence work, including temporary removal and replacement. This unit will be paid on the basis of total depth-to-depth footage based upon straight line stationing at the point of entry to depth footage shall be defined as the straight line footage between the point on bore entry at which the depth reaches the exit. All depths shall be measured from surface grade. Straight line stationing shall be determined by the NoaNet inspection.
PH	Each	Pothole Existing Utilities, 0 to 5 (includes restoration)- This unit includes all labor, material, and equipment to expose existing utilities under hard surface in preparation of directional drilling above, below, or near the existing utility. Unit includes restoration of surface with gravel, CDF, and hot mix asphalt. Unit of payment will be each.
PTH+	Each	Pothole Existing Utilities, 6 And Above (includes restoration)- This unit includes all labor, material, and equipment to expose existing utilities under hard surface in preparation of directional drilling above, below, or near the existing utility. Unit includes restoration of surface with gravel, CDF, and hot mix asphalt. Unit of payment will be each.

BPP	Lineal Foot	Jack Push, Dry Bore- This unit includes all labor, equipment, and material handling to jack/push and or dry bore Black specified on the construction drawings and permits. Associated work operations such as excavating bore pits, shoring sweeps are also included in this item. Also included is all labor, equipment, materials, access to the bore site (including pits), as built, and material handling to install inner-duct as specified on the construction drawings. Unit includes prod conduit. These units include all fence work, including temporary removal, restoration, and replacement. Payment for for the length specified on the construction drawings. At the Contractor's convenience, a larger size and/or length of added cost to NoaNet. Should the Contractor choose to bore at a depth greater than that specified on the construction obstructions, he may do so at no additional cost. Depth change may require NoaNet and/or governmental approval. T sealing or capping of the conduit(s) if needed and sealing around the duct(s) when placed. The Contractor will be resp
BCC	Lineal Foot	Concrete Encasement- This unit includes the labor, handling, and installation of concrete encasement for conduits in a trench where depth cannot be achieved or required by municipalities. This unit is to be used in conjunction with the and or removal units as an adder. Steel plates may be required pending on location for trench safety and depth of tre contract terms. The contractor must obtain approval from NoaNet prior to the Contractor commencing work on this c
SCH-Casing(3)	Lineal Footage	Place in (4" SCH) Casing, 3-1-1/4" innerducts (Orange, Green, Red)- Describes the installation of three individual 1-1/4 coded orange, green, and red—inside a single 4-inch schedule-rated protective casing (SCH). This procedure provides segregating multiple fiber cables or utilities within one larger conduit. The color-coded innerducts simplify cable ident The 4-inch casing is typically installed underground, along approved routes, and is designed to withstand soil and load protection while allowing easy cable management and upgrades.
PMB	Lineal Footage	Pneumatic missile boring is a trenchless construction method- Used to install underground utilities such as fiber optic conduit without the need for open trench excavation. In this process, a pneumatic piercing tool—commonly called a ' entry pit and uses compressed air to drive itself horizontally through the soil, creating a borehole beneath obstacles li areas. Once the tool reaches a designated exit pit, conduit or cable can be pulled through the completed bore. This co is especially well-suited for short, straight runs and minimizes surface disruption, restoration costs, and the risks asso
UHF(17x30x36)T-22	Each	Handhole Placement, Small- These units include all labor, equipment, and material handling to safely remove and/or per specified drawings. These unit(s) include excavation, placing the specified granular footing for the vault, placing th and route marker dome/testing station placement behind the vault, backfilling per specifications, setting new frames, into the hand hole and sealing the entrances with an industry accepted sealant or grout. Composite-type bottomless rodent screen and 2" pea gravel. The typical composite hand hole/vault size is 17x30x36 (small). See the Material req details on materials included within the vault. All cables and splice cases will be racked on cable shoes. Grounding is r
UHF(30x48x36)T-22	Each	Handhole Placement, Large- These units include all labor, equipment, and material handling to safely remove and/or per specified drawings. These unit(s) include excavation, placing the specified granular footing for the vault, placing th and route marker dome/testing station placement behind the vault, backfilling per specifications, setting new frames, into the hand hole and sealing the entrances with an industry accepted sealant or grout. Composite-type bottomless rodent screen and 2" pea gravel. The typical composite hand hole/vault size is 30x48x36 (large). See the Material req details on materials included within the vault. All cables and splice cases will be racked on cable shoes. Grounding is r

UVF(48x48x48)(T)	Each	Vault Placement- These units include all labor, equipment, and material handling to safely remove and/or install a pre specified drawings. These unit(s) include excavation, placing the specified granular footing for the vault, placing the gr route marker dome/testing station placement behind the vault, backfilling per specifications, setting new frames, racks, the hand hole and sealing the entrances with an industry accepted sealant or grout. Composite-type bottomless vaults require a rodent screen and 2" pea gravel. The typical composite hand hole/vault size is 48x48x48 (Vault). 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.
Bollard Installation	Each	Bollard Installation- Setting a bollard typically involves excavating a footing to the required depth and diameter, placing the bollard, encasing the embedded portion in concrete so that the finished unit is plumb, properly aligned, and capable of resisting impact. The installer verifies the location against plans, checks for underground utilities, and excavates a hole large enough to provide clearance around the bollard shaft. A compacted gravel base is often placed for drainage, then the bollard is set to the correct height. Concrete is placed and consolidated around it to the required elevation. The top of concrete is finished flush with surrounding surface.
UHF-R	Each	Handhole Relocation- These units include all labor, equipment, and material handling to properly remove and/or install a pre specified drawings. These units include excavation, placing the specified granular footing for the vault, placing the grout, route marker sign placement behind the vault, backfilling per specifications, setting new frames, racks, and covers, running cables, and sealing the entrances with an industry accepted sealant or grout. Composite-type bottomless vaults require 6" of base. Typical composite hand hole size is 17x30x36 (Small) and 30x48x36 (Large). See the Material requirement attachment for specific details on materials included within the vault.
UVF-R	Each	Vault Relocation- These units include all labor, equipment, and material handling to safely remove and/or install a pre specified drawings. These unit(s) include excavation, placing the specified granular footing for the vault, placing the grout, route marker dome/testing station placement behind the vault, backfilling per specifications, setting new frames, racks, the hand hole and sealing the entrances with an industry accepted sealant or grout. Composite-type bottomless vaults require a rodent screen and 2" pea gravel. The typical composite hand hole/vault size is 17x30x36 (small) and 30x48x36 (Large). 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.
BM72	Square Foot.	Asphalt Restoration- This unit includes all labor, equipment, material, and material handling to saw cut, remove, and replace surface mix, sub-base, gravel base, striping paint, and speed bumps, as detailed on construction drawings or as required by permit. The price includes labor for stone or gravel needed and compaction. All pavements will be line cut or otherwise cut with an approved method to ensure only a minimum amount must be replaced. If Federal, State, or Local regulations, the contractor will be allowed a cutback or "T-Cut" of paving at the unit prices for the cutback. The cutback shall be defined as the cutting and removal of an additional paved surface outside that which was cut and removed for the project.
BM73	Square Foot.	Concrete removal and Restore- This unit includes all labor, equipment, material, and material handling to saw cut, remove, and replace depth, including sub base, sidewalks, curbs, gutters, gravel base, reinforcement steel, striping paint, and speed bumps, as detailed on drawings or as required on permits. The Contractor's price includes labor for stone or gravel needed and compaction. The contractor shall keep all trenches and excavations in safe condition for vehicular and pedestrian traffic until permanent paving has been completed.

BRR	Lineal Foot	Rod, blow, and rope existing Duct- This unit includes “rodding and roping” of any conduits or inner ducts. An appropriate pull tape, pull rope or detectable locatable mule tape shall be left in each vacuum through each conduit/inner duct, and a pull tape, pull rope or detectable locatable mule tape shall be left in each vacuum. The length of each conduit/inner duct should be noted for future use in planning cable-pulling activities. Unit is paid from wall-to-tail measurements. Conduit repairs will be paid on a per-foot basis of trench or hourly. Pre-approval is required by a NoaNet Manager for all work.
PLUF(x)I	Lineal Foot	Pull Fiber through Duct- These units include all labor, equipment, and material required to pull NoaNet-supplied fiber optic cable through existing ducts and to seal and or plug all conduit(s) and inner duct(s). The unit is paid from wall-to-tail measurements and will require 150' 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. Fiber optic cable shall be coiled, racked, and stored on cable shoes inside the vault. The unit is paid from wall-to-tail measurements.
BCP	Lineal Foot	Blow Fiber through Duct- This unit includes all labor, equipment, and material required to blow NoaNet-supplied fiber optic cable through existing ducts and to seal and or plug all conduit(s) and inner duct(s). All opening and closing of vaults/hand holes and restoration are included in this unit. The cable be compressed over 200 pounds by the 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 handling of fiber optic cable shall be required.
UGLW	Lineal foot, 500 Lineal Feet or above	Place Locate Wire- For fiber optic cable and conduit installations, a locate wire is a conductive wire placed alongside the cable throughout its underground route. This wire enables utility locators to identify the exact position of the buried fiber optic cable. The locate wire is installed in the conduit, with slack provided at vaults, handholes, and buildings for accessible locator connections. In accordance with industry standards, all underground fiber paths—including ADSS installations—must include a locate wire to support accurate location of the cable for future maintenance, repairs, or construction. Payment for placing locate wire is calculated per foot of conduit installed.
BM2	Each	BM2 Housing Ground Assembly Unit- Is described in RUS Bulletin 1753F-150 under the section for assembly units related to grounding. This section details the necessary labor and materials for installing a ground rod (in undisturbed soil), a ground rod clamp, and a 4 AWG copper ground wire. The wire is connected to an auxiliary grounding connector that is included within the housing. The unit must comply with the specific unit drawing BM2. The section also instructs to specify the diameter and length of the ground rod. For example, units may be designed for a 5/8-inch by 5-foot ground rod, or BM2(5/8)(20)S for two 5/8-inch by 10-foot sectionalized ground rods with a coupling device.
BM66	Lineal Footage	The Bridge Attachment Assembly Unit- Is described in RUS Bulletin 1753F-150 as assembly unit BM66() on Page 51. This unit includes labor and material for installing one lineal foot of galvanized steel pipe of the specified inside diameter, attached to a bracket. The unit must follow the plans and specifications as determined by the Engineer, and compensation for labor and material for the bracket is under separate units. Where a plastic pipe is required, the unit is suffixed by the letter "P" (BM66P). Detailed drawing BM66P is provided.

Ground Restoration	Square Foot.	Ground restoration- Involves returning any disturbed work area to its original or improved condition through the replacement of topsoil and vegetation, and the restoration of hard surfaces. This includes supplying and installing sod, gravel, fill dirt, or other necessary materials to match or exceed the existing conditions. The process ensures that trenching, excavation, or construction impacts are fully remediated so that the final appearance is consistent with the surrounding area.
FDH Placement	Flat Rate	FDH Placement-This installation unit involves the complete placement of one Fiber Distribution Hub (FDH) as part of a network. The unit includes all required labor to set either a H-frame or slab-mounted FDH cabinet, as specified by the design. The scope of work includes the installation of a precast utility vault to provide secure below-ground access, as well as furnishing and connecting two 4" SCH-40 PVC conduits to the FDH for cable routing. All mounting, excavation, placement, and connection activities, along with associated site restoration, are included to ensure the FDH is fully integrated and operational within the network infrastructure. This work unit covers the installation of one Fiber Distribution Hub (FDH) including all necessary labor to securely mount either an H-frame or a slab-mounted FDH cabinet into an underground vault for cable management and access, and furnish and fit two 4" SCH-40 PVC pipes to connect the vault to the ground. The unit includes excavating the site, assembling and positioning all hardware, making conduit and vault connections, and final site cleanup.
APT	Per Attachment	Pole transfer, Straight- This unit includes all labor and equipment to transfer one straight pole attachment, either strand or ADSL. The unit includes bonding, strapping, cable management on the face of the pole, and removal of old hardware. Documentation of new attachment location and neutral is required.
APG	Per Location	Pole transfer, Angle- This unit includes all labor and equipment to transfer one pole attachment, either strand or ADSL. The unit includes side guy and or overhead guy at both ends (if required), bonding, strapping, cable management on the face of the pole, and removal of old hardware.
APD	Per Location	Pole transfer, DE- This unit includes all labor and equipment to transfer one Dead-end pole attachment, either strand or ADSL. The unit includes transferring side guy, overhead guy and down guy. Bonding, strapping, cable management on the face of the pole, and removal of old hardware.
APD-1	Per Location	Pole transfer, DDE- This unit includes all labor and equipment to transfer one Double-Dead-end pole attachment, either strand or ADSL. The unit includes transferring side guy, overhead guy, and down guy. Bonding, strapping, cable management on the face of the pole, and removal of old hardware.
XPOLE	Per Location	Removal and disposal of existing Pole- This unit includes all labor, equipment, and disposal required to remove an existing utility pole. Joint-Use new pole transfers. Refer to the construction drawing for information.
POLE	Per Location	Installation of New Pole- This unit includes all labor equipment to install a new utility pole. This is required per NoaNebraska. Refer to the construction drawing for information.
BAND	Per Location	Band to Non-Wood Pole- Refers to the installation process in which utility cables, hardware, or conduit are securely attached to poles made of materials other than wood, such as steel, concrete, or composite. This is accomplished using specialized banding systems and brackets—that wrap around the pole to hold mounting hardware, riser clamps, or bracket assemblies in place. The process involves drilling or bolting into non-wood poles, preserving their integrity and providing a flexible, strong, and corrosion-resistant method for attaching telecommunications or power infrastructure to modern utility pole types. All necessary labor and mounting materials are included. The term Band to Non-Wood Pole describes the process of securing utility lines, hardware, or conduit to poles made of steel, concrete, or composite using a dedicated banding system. This method employs corrosion-resistant steel bands and brackets that wrap around the pole to provide a secure attachment point for wires, conduits, or equipment without direct drilling into the pole structure. The unit includes all labor and materials required for the installation.

PM52	Per Location	Pole Marking, Per Pole-Route and Pole Number refers to the process of affixing clear, durable identification markers to indicate both the specific route designation and the unique pole number assigned to that location. This procedure ensures unambiguously identifiable for maintenance, inspections, asset management, and emergency response. Markers are placards installed at eye level, visible from the ground, and conforming to company and regulatory standards for pole marking. This includes purchasing, labeling, and securely installing the markers on each designated pole with all labor and materials.
PF3-7	Per Anchor	PF3-7 Screw Anchor- Is a heavy-duty anchoring assembly designed for utility pole and telecommunications applications, providing a holding force of up to 16,000 lbs (71,168 N). This unit includes all labor and materials necessary to install the screw anchor. PF3-7 is installed by mechanically screwing the anchor into undisturbed soil, typically using power equipment, until the required holding force is achieved. Once in place, the anchor serves as a secure point for guy wires or support cables, providing stability to structures.
PF2-7	Per Location	PF2-7 Plate Anchor- Is a heavy-duty anchor assembly used in telecommunications and utility construction, designed to provide up to 16,000 lbs (71,168 N). This unit consists of a steel plate anchor and an extension rod, installed by excavating a hole in the undisturbed soil at a specified depth. Once set, the anchor serves as a secure termination point for guy wires or support cables, supporting aerial spans. The PF2-7 is selected when substantial pullout resistance is required, such as for long aerial spans.
PF5-3	Per Location	PF5-3 Rock Anchor- Is a specialized anchoring assembly designed for installation in rock substrates to provide secure ground anchors for poles and aerial cable systems. It features a robust 3/4-inch (19 mm) diameter steel rod and is installed by drilling into solid rock per engineering and manufacturer specifications. The complete assembly includes all required materials and labor to ensure optimal holding power in rocky ground conditions. The PF5-3 rock anchor is ideal for sites where standard earth anchors are not suitable due to the presence of bedrock or very dense substrates, making it a reliable choice for maintaining pole and cable stability in challenging environments. Anchor is a heavy-duty anchor assembly used in areas with solid rock or extremely dense soils, designed to provide secure termination points for poles and aerial cable installations. This anchor consists of a 3/4-inch (19 mm) diameter steel rod, which is installed by drilling into the rock and securing it with a nut and washer. All labor and materials necessary for installation, such as the rod, nut, washer, and drilling equipment, are included.
PF1-7	Per Location	PFI-7 Expanding Anchor- Is a high-capacity ground anchor assembly used in telecommunications and utility construction, providing up to 16,000 lbs (71,168 N). The unit includes an expanding anchor and steel rod, and is installed by driving or augering the anchor into the undisturbed earth. Once positioned, the anchor is fully expanded—typically using a setting tool or rod—so that its arms engage the surrounding soil engagement and resistance. This assembly provides a secure termination point for guy wires to stabilize poles or structures.
PF6-4	Per Location	PF6-4 Swamp Anchor- Is a specialized ground anchor assembly designed for use in soft, saturated, or marshy soil conditions. It features a 3/4-inch (19 mm) diameter helix plate and a steel rod, providing increased surface area and holding capacity in unstable soils where standard anchors may not perform adequately. The assembly is installed by driving or screwing the helix into undisturbed swampy ground using a power auger and secure embedment. Once in place, the anchor serves as a reliable termination point for guy wires, helping stabilize poles or structures.

PM12(x)	Per Location	PM12(x) unit- consists of all labor and material required to install a sidewalk guy arm, which is a structural support device for sidewalks or pedestrian areas. The installation involves securing a single piece of 2-inch (50.8 mm) galvanized steel pipe (10 feet or meters) to the pole at the proper height and orientation, providing a solid attachment point for guy wires to support overhead loads. The sidewalk guy arm itself is installed independently, while the associated guy wire, guy guard, and anchor assembly are compensated under separate units according to project or engineering requirements. This configuration ensures clear pedestrian pathways, and long-term pole stability in urban or roadside settings. This unit covers all labor and material required for the guy arm, which uses a single piece of 2-inch (50.8 mm) galvanized steel pipe of the specified length to support guying. Installation procedure ensures the arm is securely mounted at a height and distance that does not obstruct pedestrian
APA-1	Per Location	APA-1-Anchor transfer or removal- involves all required labor and material to relocate or completely remove an existing anchor used for guying or stabilizing poles and aerial cable facilities. The process includes disconnecting guy wires, excavating, extracting the full anchor assembly for reuse or safe disposal, or transferring it to a new specified location as directed. The surrounding ground is restored to the original or better condition after removal or relocation. This task ensures safe handling standards, and maintains network integrity during upgrades, pole changes, or route redesigns.
PE2-2	Per Strand Foot	PE2-2 unit is an overhead guy assembly- used in telecommunications and utility construction for guying aerial messengers. It requires required galvanized steel guy strand and hardware—including insulators and ground connections if specified—for sections experiencing lateral forces from aerial cable spans. The PE2-2 is specifically sized for 6M strand and is installed as an overhead guy. It is attached above ground to counterbalance pull or tension on the pole. All necessary labor and materials for installation are included. On existing poles, the designation is prefixed with "N." This assembly ensures pole stability and compliance with engineering standards.
PE1-2	Per Strand Foot	PE1-2 unit is a guy assembly- For telecommunications and utility pole lines, specifically defined as a down guy for 6M strand. Bulletin 1753F-152. It consists of all required strand wire and hardware, including insulators and ground connections to support the pole against lateral or tension loads. The PE1-2 assembly is used when a messenger strand is extended to support a span treated as a down guy for load-sharing. When used on existing poles, the designation is prefixed with "N" to indicate existing structures. Unless otherwise specified, the assembly includes seven-wire, Class A galvanized steel utility-grade strand.
ALS	Per Strand Foot	Lashing of one Fiber Cable- This unit includes labor and equipment to double lash fiber cable, placement of storage (snow-shoes), dampeners, and coiling of fiber for splicing. LASHER is ALWAYS to have down pressure to prevent slipping and or skipping. Unit includes bonding, strapping, and cable management on the face of the pole. Straps and spacers will be uniform and placed per NoaNet requirements.
ALS-1	Per Strand Foot	Lashing of additional Fiber Cables- This unit includes labor and equipment to double lash up to 3 additional fibers, messenger, backbone fiber cable. Placement of storage (snow-shoes), placement of wind dampeners, and coiling of fiber for splicing. Unit includes down pressure to prevent slipping and or skipping. Unit includes bonding, strapping, and cable management on the face of the pole. Straps will be uniform and placed per NoaNet requirements. No Tape is to be left on the fiber optic cable after lashing has been completed.
ALD	Per Fiber Cable Foot	DeLash & Relash Fiber Cable- This unit includes labor and equipment to complete the operation of delashing, retrieving, and relashing fiber optic cable. The removal, relocation, and completion of fiber storage assemblies and wind dampeners are required. This unit is used in road-widening situations. LASHER is ALWAYS to have down pressure to prevent slipping and or skipping. The unit includes bonding, strapping, and cable management on the face of the pole. Straps and spacers will be uniform and placed per NoaNet requirements.

ADS	Per Fiber Cable Foot	ADSS Fiber Relocation- This unit includes labor and equipment to move ADSS Self Support Fiber Cable from an existing unit includes moving hardware, wind dampeners, temporary support of the existing fiber, placement of new storage and
ADP	Per Fiber Cable Foot	ADSS Fiber Placement- This unit includes the placement of ADSS fiber to the required tension. The placement of required ends, vibration dampeners, and storage assemblies are included. Refer to the material specifications sheet for specific
DAMP	Each	Vibration dampener on ADSS fiber cable-Involves installing a specially designed device—such as a spiral vibration dampener at designated locations along the aerial cable span. The dampener is positioned close to the cable’s attachment point or following manufacturer-recommended placement intervals and quantity based on span length and environmental factors. It is wrapped or clamped onto the cable without damaging the sheath, using all provided hardware. Its purpose is to absorb oscillations, also called Aerial Vibration, which can otherwise lead to fatigue or damage of the ADSS cable over time.
ADR	Per Fiber Cable Foot	Aerial or Underground Wreck-Out- This unit includes labor and equipment to remove fiber optic cable in aerial or underground. ADSS hardware is included in this unit. Underground conduit will be occupied with a mule tape, and tied at each end for
AXM	Per Strand Foot	Wreck-out strand, Hardware, and X-Arms- This unit includes labor and equipment to remove all strand, X-arms, down rods. This includes composite(PUPI), wood, and FGA arms. All materials are to be disposed of by the contractor at a proper
PM4	Per Location	PM4 Cable Extension Arm-PUPI ARM-Long- Is a fiberglass with steel bracket designed to support and extend communications cable from a pole. Used primarily in aerial plant construction, the extension arm provides additional clearance between the cable and cable alignment, avoid obstructions, or accommodate multiple cable runs. It is typically attached using pole bands or suspension clamp for secure cable support, and features adjustable bolts for positioning. The PM4 arm ensures reliable cable support, improving network integrity and maintaining required operational clearances on the pole line.
PM4-A	Per Location	PM4-A cable extension arm for fiberglass applications is a Short- Reinforced arm made primarily from epoxy fiberglass designed to support telecommunications cables away from a utility pole or structure. It features durable construction with ductile coating to prevent corrosion and includes mounting bolts and bracket systems compatible with fiberglass crossarms. The PM4-A provides cable separation for cables, enhances clearance in congested overhead installations, and meets utility specifications for strength and weather resistance. This assembly is specifically configured for optimal performance when installed alongside or on fiberglass crossarms.
ARR	Each	Place a new Riser- This unit includes the placement of a new Sch-40 conduit riser, either 2" or 4" in size, and the transition from ground to the riser. The riser will be placed on standoff brackets, never mounted to the face of the pole. An approved joint-use permit is required. This unit is not to be placed on any foreign-owned pole. NESC standards apply.
ARR-1	Each	Transfer of an Existing Riser- Transfer of an Existing Riser includes all necessary labor and materials to relocate an in-place riser to a new position. This work unit covers up to five feet of hand digging at the base to expose the existing conduit and riser, installing new conduit as required for protecting or reconnecting cables, and re-plumbing (re-routing and reconnecting) of the conduit to ensure a clear pathway from ground level to the new riser location. The process ensures cable protection and functionality are maintained throughout the transfer.
ARR-2	Each	Removal of Existing Riser- Removal of Existing Riser includes all labor and material needed to detach and remove a riser from its mounting on a pole or structure. The process entails safely disconnecting the riser, extracting it without damaging communications cables, capping or sealing the unused conduit with an approved cap to prevent water, debris, or animal intrusion. This unit ensures the structure remains safe and compliant with utility standards after the riser is no longer required for active service. Removal of Existing Riser unit is necessary to safely detach and remove an existing riser from a utility pole or structure. After the riser is removed, the structure must be inspected and repaired if necessary.

BM51(x)	Each	Install Multi- Service Terminal- This unit includes the placement of a multi-service (MST) terminal with a pre-defined, MSTs will be eight ports with a stated quantity of active ports, or as the design requires. Placement of the MST will be as project design requires. MST will never be mounted on the pole and shall never interfere with climbing space. Place the placement unit. Pre-connectorized drops (PCD) will be placed so as not to have tension on the weathertight-sealed loop for future maintenance. Aerial placement can be lashed or utilize a wedge clamp (P-Clamp). PCD will be coiled at customer's end. Tag the PCD with a NoaNet tag at each end. This also includes the placement of a CommScope OEDC.
R3-5	Lineal Foot	Tree Trimming- This unit is defined as one foot (0.305 meters) of tree and vegetation trimming along the telecommunication line cable, measured parallel to the route. All trees, shrubs, and underbrush trimmed over the specified width are counted in length. Sections without trimming are not measured, and trimming completed under other right-of-way clearing units. No shade, fruit, or ornamental trees may be trimmed except as directed by the Engineer, and in special cases, only the
HUOF	Each Closure	Placement of New Fiber Optic Closure(Any size)-This unit includes all labor, equipment, and tools to complete the work for splicing and placement of one fiber optic splice case enclosure, including splice trays. Includes cable preparation (jacket removal, etc.) and routing buffer tubes into the splice case closure. Organizing splice tray assembly and all other tasks necessary for OSP & ISP) and laying fibers carefully in the trays. Also included are all tasks necessary to make the final placement/securing of cables, sealing, and cleanup of the work area. This also includes the fiber prep installing a new rack mounted or backhoe
SPC	Each Closure	Splice Closure/Re-Entry-This unit includes all labor, equipment, and tools to complete the work to prepare Fiber Optic Closure of one fiber optic splice case enclosure, including splice trays. Includes cable preparation (jacket removal, grounding/buffer tubes into the splice case closure. Organizing splice tray assembly and all other tasks necessary to prepare Fiber Optic Closure fibers carefully into the trays. Also included are all tasks necessary to make the final placement/securing of cables, sealing, and cleanup of the work area. This also includes the fiber prep installing a new rack mounted or backhoe
SPC-1	Each Closure	Splice Closure/ Cable Prep-This unit includes all labor, equipment, and tools required to complete the work at designated structures, pumping the vault, testing for hazardous situations (i.e., gas), and ventilating the hole. Removing the fiber slack coil and carefully unwinding and securing to a work table in a splicing setup. Removing the splice case dome to access tubes. Also included being all tasks necessary to make the final placement/securing of the dome lid and coiling of the
HO1(1-12)	Each Splice	Splice and Test Fibers 1-12-This unit includes all labor, equipment, tools, and material handling to complete one (1) splice of 12 strands. These units also include fusion splicing/terminating of an OSP cable to pigtail(s) in an OCEF and or FTP at a POI. include complete troubleshooting and repair (i.e., Clean-up and re-splicing Attempts) that may arise during Acceptance and Power (Insertion Loss) testing as specified in NoaNet Specifications. All Testing requirements are included in this unit. further details. Splicing of fiber will be paid by the total quantity of fibers spliced per project Work Order on the entire
HO1(13-24)	Each Splice	Splice and Test Fibers 13-24-This unit includes all labor, equipment, tools, and material handling to complete one (1) splice of 24 strands. These units also include fusion splicing/terminating of an OSP cable to pigtail(s) in an OCEF and or FTP at a POI. include complete troubleshooting and repair (i.e., Clean-up and re-splicing Attempts) that may arise during Acceptance and Power (Insertion Loss) testing as specified in NoaNet Specifications. All Testing requirements are included in this unit. further details. Splicing of fiber will be paid by the total quantity of fibers spliced per project Work Order on the entire

HO1(25-48)	Each Splice	Splice and Test Fiber 25-48-This unit includes all labor, equipment, tools, and material handling to complete one (1) splice of 25-48 optic strands. These units also include fusion splicing/terminating of an OSP cable to pigtail(s) in an OCEF and or FTP at a PON. Units also include complete troubleshooting and repair (i.e., Clean-up and re-splicing Attempts) that may arise during Acceptance Testing and Power (Insertion Loss) testing as specified in NoaNet Specifications. All Testing requirements are included in this unit. For further details. Splicing of fiber will be paid by the total quantity of fibers spliced per project Work Order on the entire project.
HO1(49 and Above)	Each Splice	Splice and Test Fiber 49 and Above- unit includes all labor, equipment, tools, and material handling to complete one (1) splice of 49 and above optic strands. These units also include fusion splicing/terminating of an OSP cable to pigtail(s) in an OCEF and or FTP at a PON. Units also include complete troubleshooting and repair (i.e., Clean-up and re-splicing Attempts) that may arise during Acceptance Testing and Power (Insertion Loss) testing as specified in NoaNet Specifications. All Testing requirements are included in this unit. For further details. Splicing of fiber will be paid by the total quantity of fibers spliced per project Work Order on the entire project.
SPR	Each Closure	Ring Cut/Mid-Entry Prep-This unit includes all labor, equipment, tools, and material handling to complete a ring cut as specified in the NoaNet Specifications. Units also include removing the sheath at two ends in the middle of a slack coil in order to place a new splice case. Pulling back the sheath, managing the lateral cable of the specified size, tray and cleaning fibers, and placing a new splice case. Splicing of the fibers. Units also include complete troubleshooting and repair (i.e., Clean-up and re-splicing Attempts) that may arise during Acceptance Testing and Power (Insertion Loss) testing as specified in NoaNet Specifications. All Testing requirements are included in this unit. For further details. Splicing of fiber will be paid by the total quantity of fibers spliced per project Work Order on the entire project.
SPT	Unit is per terminated point	OTDR Acceptance Testing- These units include all labor, equipment, tools, and test equipment (including but not limited to OTDR) for acceptance testing of a Span of Fiber Optic cable, including all splices and terminations. This unit is to be used for a span of fiber spliced section of cable on NoaNet's behalf. Acceptance Testing described in these units includes: • Continuity Testing • Bi-directional OTDR Testing and Documentation(Requires PDF and RAW Files) • Insertion Loss Testing and Documentation(This is used for PON Networks Only) • Bare fiber end testing from a field location to a pre-terminated point. This would include a Re-Entry unit to access fiber at the field location.
MOP	Flat Rate	After Hours MOP- This unit includes the after-normal-business-hours splicing MOP required in the NoaNet backbone and all other units of the day. An after-hours MOP (Method of Procedure) refers to a planned and documented work procedure that is scheduled outside of normal business hours—typically evenings, nights, or weekends—to minimize disruption to network operations or business. MOP details step-by-step instructions for maintenance, upgrades, emergency work, or service activations and include a list of contacts, and rollback plans. Technicians or contractors follow the MOP to ensure that all tasks are executed efficiently and safely. authorization and coordination. After hours procedures are after hours procedures for complete telecom, IT, and utility work.
SPC-LWR	Flat Rate	Lower splice case and Re-Hang-This unit includes all labor, equipment, tools, and materials for raising and lowering a splice case needed for splicing in an aerial environment. Includes attaching a mule tape for the splicer to lower and raise once the splice case is completed. This unit also includes returning once splicing has been completed and securing the splice case and storage of the splice case shoes. This flat-rate fee for travel in excess of 50 miles from an allocated geographic work storage yard location is included in the contractual framework. This designated storage yard, stipulated by the contract, serves as the repository for essential materials and equipment.

STU	Flat Rate	Splicer Travel Unit- The Splicer Travel Unit entails a flat-rate fee for travel in excess of 50 miles originating from an allocated work location, as mutually agreed upon within the contractual framework. These designated locations, stipulated by the contract, are for essential materials and supplies. It is essential to note that this unit rate is from the splicer's work geographic storage location.
FTP	Each	Installation Fiber patch panel (New Cable Prep) (Rack-mount or Back-board mount)-This unit includes the placement of fiber patch panel in telecommunications rack or 3/4" backboard. Contractor to supply 3' x 3' backboard where required by NoaNet Engineering. Contractor to exercise proper care to install cable, with service coil, tagging, and routing through existing fiber management troughs when required.
SIFOT	Per Foot	Building Fiber Cable Placement- Unit is per foot of cable placed, NOT to Include Slack or Storage. This unit consists of pulling fiber optic cable from facility entrance (penetration) into the building to a cable termination point. This unit does not include fiber splicing. The latest revision of the National Electrical Safety Code (NESC) and the National Electrical Code (NEC) shall be followed in every case except where local regulations are more stringent, in which case local regulations shall govern. Proper fire taping, strapping and sealing is required. Contractor is required to contact schedule and complete work per Right of Entry requirements.
SIFOT-A	Per Foot	Building Attic Fiber Cable Placement-This unit covers the installation of fiber optic cable in attic spaces, paid per foot of cable placed (including slack or storage). The work consists of routing fiber from the entry point of the building—where the cable penetrates the facility—into the building location inside. The scope includes adhering to all current National Electrical Safety Code (NESC), National Electrical Code (NEC) regulations, as well as ensuring proper fire taping, strapping, and sealing throughout the pathway. The work does not include fiber splicing. Contractor must coordinate right-of-entry, schedule and complete the installation in accordance with facility requirements, and use proper protection methods for attic runs to maintain compliance, fire safety, and long-term cable integrity.This unit consists of pulling fiber optic cable from attic from building entrance to termination, measured per foot of cable placed and excluding any slack or storage. The work includes routing through attic spaces via approved pathways, securing and fire-taping per code, and sealing all penetrations, but does not include fiber splicing.
SIFCT	Per Foot	Building Fiber Cable Placement EMT-Unit is per foot of cable placed, NOT to Include Slack or Storage. This unit consists of pulling fiber optic cable from a facility entrance (penetration) into the building to a cable termination point. Included is the pulling of the cable. This unit does not include fiber splicing. The latest revision of the National Electrical Safety Code (NESC) and the National Electrical Code (NEC) shall be followed in every case except where local regulations are more stringent, in which case local regulations shall govern. Proper fire taping, strapping and sealing are required. The contractor is required to contact schedule and complete work per Right of Entry requirements.
BLDG-EMT	Per Foot	Building EMT conduit placement-Unit is per foot of EMT placed and attached to the exterior building wall as a new pathway for fiber optic cable. This unit consists of all tools and equipment needed to install fiber optic cable from a facility entrance (penetration) into the building. Use unit SIFCT for pulling the fiber optic cable. This unit does not include fiber splicing. The latest revision of the National Electrical Safety Code (NESC) and the National Electrical Code (NEC) shall be followed in every case except where local regulations are more stringent, in which case local regulations shall govern. Proper fire taping, strapping, and sealing are required. The contractor is required to contact schedule and complete work per Right of Entry requirements.
CSFOD	Each	Core Drill, Building or Wall Penetration, wood-Unit is paid per type of penetration, wood, metal, brick, or concrete. This unit consists of core drilling and or penetrating a wall, ceiling, or roof and sealing new penetration entrance per local code. The location of the penetration will be per the owner's requirements. Existing wall and or ceiling construction could be wood, brick, mortar, concrete, or concrete units. Proper fire taping and electrical codes will be followed at all times. The use of this unit is limited to wood, metal, brick, or concrete.

CSFOD-1	Each	Core Drill, Building or Wall Penetration, concrete-Unit is paid per type of penetration, wood, metal, brick, or concrete. This unit consists of core drilling and or penetrating a wall, ceiling, or roof and sealing new penetration entrance per location of the penetration will be per the owner's requirements. Existing wall and or ceiling construction could be wood, brick, mortar, concrete, or concrete units. Proper fire taping and electrical codes will be followed at all times. The use
CABCL	Each	Charles Cell Site Cabinet- Charles Cell Site Cabinet Install a universal broadband enclosure, 26x22x20", on an existing "H" Frame structure. Mount by way of unistrut and plum existing conduits into the mounted enclosure. Ground cabinet with previously placed pulling, trenching, or fiber splicing will be paid per unit contract bid items. The contractor is required to coordinate pla
EASM	Each	Easement and Consent Acquisition The contractor shall include all labor and costs required to identify the need for an include the type of easement needed and the purpose for which it's required. Identify all parties affected. Open comm documentation, including a survey. Any negotiations for the easement including any compensation will include a Noa negotiations have been reached, provide executed documents and recorded agreements providing a detailed plat ma
CROW	Each	City / County-ROW Permits-The contractor shall include all labor and cost required to design and submit permit draw within County and City Right of Ways. A drawing exhibit will be provided with the permit and prepared per County ar Compensation for these services will be on a lump sum basis for project lengths under 2500'. Any projects over 2500' unit items provided in the bid sheet. It is anticipated that the maximum run of any permit would not exceed 2,500 fe prepared for permits in excess of that distance
WROW	Each	WSDOT Permits-The contractor shall include all labor and cost required to design and submit permit drawings for an e WSDOT Right of Ways. A drawing exhibit will be provided with the permit and prepared per WSDOT requirements. In markup, approved TCP, etc. Compensation for these services will be on a lump sum basis for project lengths under 25 provide a price per foot based on unit items provided in the bid sheet. It is anticipated that the maximum run of any p but the contractor should be prepared for permits in excess of that distance
RROW	Each	Railroad Utility Crossing Permits- The contractor shall include all labor and cost required to design and submit permit services within any Rail Road Right of Ways. A drawing exhibit will be provided with the permit and prepared per Rail Permit and Profile drawing construction print to include all heights over the tracks. Compensation for these services w project lengths under 2500'. Any projects over 2500' provide a price per foot based on unit items provided in the bid
TRA	Per Hour	Traffic Contro Crew- This unit will be requested by the NoaNet Engineer on a Per Project Location needing required Tr can be performed by the contractor's internal forces as long as they have the required documentation and certificatio contractor is also available for use. This unit will be used on small jobs for general routine flagging needs. (For more c Complex unit. (See description for clarification).
TRA-OT	Per Hour Overtime Rate	Traffic Control Crew, Overtime Rate- This unit will be requested by the NoaNet Engineer on a Per Project Location nee Overtime hourly rate. This can be performed by the contractor's internal forces as long as they have the required doc third-party traffic control contractor is also available for use. This unit will be used on small jobs for general routine fla rate. (For more complex jobs, please use the TCP-Complex unit. (See description for clarification).

PLA	Per Project Location	Pole Loading Analysis, Permitting-The contractor will provide a detailed construction drawing to include pole data collection, power attachments and communications. This needs to include all existing conductors and newly proposed ones. This needs to be done using O-Calc, SPIDAcac or other approved programs. This needs to be signed off with a certified PE stamp for submittal. The contractor will submit this with the same requirements. This will be requested by NoaNet Engineer
TCP-Complex	Per Project Location	TCP-Complex- Traffic Control Plan—Complex Crew estimate (Per NN Engineer request) is a comprehensive planning document developed at the direction of a NoaNet engineer for projects requiring advanced or multi-crew traffic management. The estimate includes procedures for ensuring safe and efficient traffic flow around a construction or maintenance work zone involving telecommunications infrastructure. It addresses complex situations, such as multi-lane closures, detours, signal adjustments, flagging, and other resources needed for crews. The estimate includes the anticipated labor, equipment, signage, barricades, and other resources needed for full compliance with regulations. All elements are tailored to engineer-specified site conditions, phasing requirements, and operational considerations.
UPDA-1	Each	Utility Pole Data Collection & Application 1 to 10 poles-The contractor shall include all labor and costs required to prepare and submit applications with the local utility or telephone pole owner. Compensation for these services will be on a per-pole basis for applications with 1 to 10 poles and on a per-pole basis for applications between 11 to 100 poles. The contractor will invoice NoaNet for all pole application costs from the local utility or telephone pole owner. The contractor shall prepare the final approved files and transmit them to NoaNet. It is assumed that; NoaNet has obtained Joint Use Agreements with all agencies and will provide to contractor Utility Construction Standards. The contractor will facilitate the completion of all determined Make Ready with any Joint Users on facilities. The contractor will prepare, submit, and track all Pole Attachment Applications. The contractor will survey and collect data on the Selected Route and utilize the pole data collection sheet. The contractor will photo each pole and electronically provide it to NoaNet with the design. The contractor will review Utility Make Ready Estimates for accuracy. Hardcopy file for each pole application filed and approved.
UDPA-2	Each	Utility Pole Data Collection & Application 11 to 100 poles-The contractor shall include all labor and costs required to prepare and submit applications with the local utility or telephone pole owner. Compensation for these services will be on a per-pole basis for applications with 1 to 10 poles and 100 poles and on a per-pole basis for applications. The contractor will invoice NoaNet for all pole application costs from the local utility or telephone pole owner. The contractor shall prepare the final approved files and transmit them to NoaNet. It is assumed that; NoaNet has obtained Joint Use Agreements with all agencies and will provide to contractor Utility Construction Standards. The contractor will facilitate the completion of all determined Make Ready with any Joint Users on facilities. The contractor will prepare, submit, and track all Pole Attachment Applications. The contractor will survey and collect data on the Selected Route and utilize the pole data collection sheet. The contractor will photo each pole and electronically provide it to NoaNet with the design. The contractor will review Utility Make Ready Estimates for accuracy. Hardcopy file for each pole application filed and approved.

FDCD	Per Foot	Field, Engineer, Design, CAD up to 2500 ft-Contractor will provide a Design-Build method of project delivery in which a single contract to provide design, permitting, and construction services. It is the intent of NoaNet to streamline project delivery mechanism, saving time and changes by designing to meet the needs of construction activities. NoaNet expects innovation from designer and constructor. NoaNet will provide owner input throughout the design process and expects a teamwork relationship between constructors, and NoaNet. Facilities will be placed both underground and overhead methods in a manner that meets the needs of the municipality, and public works requirements. Drawings will be provided in a shape file format set to projected coordinates to accurately represent the geographical location of each outside plant network element. This will include cable placement, splice enclosures (handholds, pole boxes, slack or stored cable, buildings, poles, and conduit. Attribute detail for each of these elements will be in a separate Microsoft Excel document that will be, and each row must correlate to a network element in the shape file by NoaNet Utility Pole Data Collection, and any easement or consent work will be paid under the pre-described units. This unit is
FDCD-1	Per Foot	Field, Engineer, Design, CAD 2501 ft -5000 ft-Contractor will provide a Design-Build method of project delivery in which a single contract to provide design, permitting and construction services. It is the intent of NoaNet to streamline project delivery mechanism, saving time and changes by designing to meet the needs of construction activities. NoaNet expects innovation from designer and constructor. NoaNet will provide owner input throughout the design process, and expects a teamwork relationship between constructors and NoaNet. Facilities will be placed both underground and overhead methods, in a manner that meets the needs of the municipality, and public works requirements. Drawings will be provided in a shape file format set to a projected coordinate system to accurately represent the geographical location of each outside plant network element. This will include cable placement, splice enclosures (handholds, pole boxes, slack or stored cable, buildings, poles, and conduit. Attribute detail for each of these elements will be in a separate Microsoft Excel document that will be and each row must correlate to a network element in the shape file by NoaNet
FDCD-2	Per Foot	Field, Engineer, Design, CAD 5001 ft-25000 ft-Contractor will provide a Design-Build method of project delivery in which a single contract to provide design, permitting, and construction services. It is the intent of NoaNet to streamline project delivery mechanism, saving time and changes by designing to meet the needs of construction activities. NoaNet expects innovation from designer and constructor. NoaNet will provide owner input throughout the design process and expects a teamwork relationship between constructors, and NoaNet. Facilities will be placed both underground and overhead methods in a manner that meets the needs of the municipality, and public works requirements. Drawings will be provided in a shape file format set to projected coordinates to represent the geographical location of each outside plant network element. This will include cable placement, splice enclosures (handholds, pole boxes, slack or stored cable, buildings, poles, and conduit. Attribute detail for each of these elements will be in a separate Microsoft Excel document that will be, and each row must correlate to a network element in the shape file by NoaNet Utility Pole Data Collection, and any easement or consent work will be paid under the pre-described units. This unit is
PREFD	Per Hour	OSP Pre-Fielding Engineer and vehicle- Unit is to be utilized as an hourly unit, requested by NoaNet to perform Outside Plant (OSP) specific project(s) or scope of work. OSP Engineer must have a Minimum of 5 years experience in all phases of OSP Fielding, construction. The engineer must be knowledgeable in Joint Use Pole attachments and application processes, municipal codes, specifications, and limitations. This unit requires pre-authorization from a NoaNet Manager. All costs shall be included