own					Hampd
Overhead distribution			miles	Т	64.
Underground distribution			miles		7.
Estimated Pole Count					19
Physical Dwelling Units (PDU's)					19
PDU's			per mile		27
Anticipated Take rate			P = 1		50
Anticipated Subscribers					9
Pole Surveyor					W
Electric Company					N G
		_			
lake Ready	UOM	Rate	Estimate	Esti	mated Cost
National Grid Fees					
Pole application Processing	per pole	\$69.00		-	\$136,669.
Pole application Charge (200 poles per)	per application	\$265.00	0 10		\$2,650.
Verizon Fees					
Pre-Construction Survey Charge 11-200 Poles	per pole	\$12.60	1979		\$24,935.
Pre-Construction Survey Travel Time (Based on 75 Poles per Day)	per day	\$255.15		_	\$6,889.
Pole Application Licensing Fee	one time	\$425.00		_	\$425
	one time	Ų 12010V	_		ų .25
WGE Fees		1.			
Pole applications required (WGE)	per pole	\$ 25.00		-	49,475.0
Pole Survey Fees (rideout by WGE)	per foot	\$ 0.10	338976	\$	33,897.
	т	otal, Pole Appli	cation Fee	$\overline{}$	\$254,941
			_		
Make ready per pole (estimated), assumption 100% requiring work	average per pole	\$ 1,000.00	19/9	Ş	1,979,000.
		Total, M	ake Ready		\$2,233,941
gineering, Design, and Field Services	UOM	Rate	Estimate	Ecti	mated Cost
		1		_	3,764.
Planning and project setup	per foot			-	
Walkout Base Maps Route and Addressing (Mapping) Aerial and Underground	per foot	\$ 0.10		-	37,646.
Detailed Buried path mapping (visible utilities and obstructions)	per foot	\$ 0.18		-	6,747.
MDU Walkout	per unit	\$ 4.02		\$	265.
Draft Route (CAD) Aerial and Underground	per foot	\$ 0.04	_	-	15,058.
Draft Route MDU Adder (CAD)	per unit	\$ 0.90	2000	\$	1,800.
Detailed Buried path mapping (visible utilities, structures and offsets)	per foot	\$ 0.12	37488	\$	4,498.
FTTX Design	per sheath foot	\$ 0.10	376464	\$	37,646.
Microduct Design	per foot	\$ 0.06	37488	\$	2,249.
Field walkout engineer, misc, lump sum, 20 hours	per hour	\$ 78.00	120	Ś	9,360.
Out of scope Design changes or revisions, lump sum, 40 hours	per hour	\$ 102.00		-	12,240.
M/CF Fiber Fraincer OA /OC Perian Validation	<u> </u>	<u> </u>			10.004
WCF Fiber Engineer: QA/QC Design Validation	_			\$	18,894.
WCF Project Engineer: Network Proofing, Project Management and Oversight				\$	23,172.
WCF GIS Engineering: GIS analysis, system management	_			\$	5,393.
	Total, Engineering,	Design and Fiel	ld Services	\$	178,737.
			er Passing	\$	90.
		Cost p	ei rassilig	٦	50.
nstruction	UOM	Rate	Estimate	Esti	mated Cost
Optical Network Terminals (ONT's)		\$ 155.39	990	\$	153,836.
Service Drops to the Premise	_			\$	911,928.
•	_	¢ 221.00	000		
Materials Overhead Labor		\$ 231.00			228,690.
Overhead Labor		\$ 539.00		-	400,207.
Underground Labor		\$ 1,143.56	248	\	283,031.
Construction Labor				\$	3,491,801.
Overhead Contract Labor	per mile	\$ 20,670.00	64.20	_	1,327,014.
	per mile	\$ 79,200.00			562,320.
Underground Contract Labor	<u>'</u>	\$ 22,475.00	<u> </u>	-	1,602,467.
Underground Contract Labor Distribution Network Materials	ner mile				
Distribution Network Materials	per mile			Ş	148,304.
<u>-</u>	per mile	\$ 520.00	142.6	_	
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA)			142.6		95.645.
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator			142.6	\$	95,645.
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator			142.6		95,645. 185,600.
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator Network Active and Passive Components				\$	
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator Network Active and Passive Components		\$ 520.00	6	\$ \$ \$	185,600. 498,711.
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator Network Active and Passive Components		\$ 520.00		\$ \$ \$	185,600. 498,711.
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA)		\$ 520.00 10.00% Total Co	6	\$ \$ \$	185,600. 498,711. 5,485,8
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator Network Active and Passive Components Construction Project Management and Contractor Oversight		\$ 520.00 10.009 Total Co	nstruction per Passing	\$ \$ \$	185,600. 498,711. 5,485,8 2,770.
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator Network Active and Passive Components Construction Project Management and Contractor Oversight Ogram Management		\$ 520.00 10.009 Total Co Cost p	nstruction per Passing Estimate	\$ \$ \$ \$ \$ Esti	185,600. 498,711. 5,485,8 2,770. mated Cost
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator Network Active and Passive Components Construction Project Management and Contractor Oversight Ogram Management Construction Contractor Procurement		\$ 520.00 10.009 Total Co Cost p	nstruction per Passing Estimate 2572573	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	185,600. 498,711. 5,485,8 2,770. mated Cost 32,157.
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator Network Active and Passive Components Construction Project Management and Contractor Oversight Ogram Management Construction Contractor Procurement Material Management and Procurement		\$ 520.00 10.009 Total Co Cost p Rate 1.259 4.329	nstruction per Passing Estimate 2572573 2266239	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	185,600. 498,711. 5,485,8 2,770. mated Cost 32,157. 97,901.
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Police Optical Hubbard Components Police Optical Hubbard Construction Project Management Police Detail (2x/day, expected network cabling construction/per FSA) Police Optical Hubbard Construction Project Management and Contractor Oversight Police Optical Hubbard Contractor		\$ 520.00 10.009 Total Co Cost p	nstruction per Passing Estimate 2572573 2266239	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	185,600. 498,711. 5,485,8 2,770. mated Cost 32,157.
Distribution Network Materials olice Detail (2x/day, expected network cabling construction/per FSA) iber Optic Hub with Generator letwork Active and Passive Components construction Project Management and Contractor Oversight ogram Management construction Contractor Procurement Material Management and Procurement	per detail	\$ 520.00 10.009 Total Co Cost p Rate 1.259 4.329	nstruction ner Passing Estimate 2572573 2266239	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	185,600. 498,711. 5,485,8 2,770. mated Cost 32,157. 97,901.
Distribution Network Materials Police Detail (2x/day, expected network cabling construction/per FSA) Fiber Optic Hub with Generator Network Active and Passive Components Construction Project Management and Contractor Oversight Ogram Management Construction Contractor Procurement	per detail	\$ 520.00 10.00% Total Co Cost p Rate 1.25% 4.32% 10.00%	nstruction ner Passing Estimate 2572573 2266239	\$ \$ \$ \$ Esti \$ \$ \$ \$	185,600 498,711 5,485,8 2,770 mated Cos 32,157 97,901 548,582