

**STATE OF NEW MEXICO
OFFICE OF BROADBAND ACCESS AND EXPANSION**

**AGREEMENT #: STUC-25-008
AMENDMENT # 1**

THIS **AMENDMENT** is made by and between the **State of New Mexico Office of Broadband Access and Expansion**, administratively attached to the **Department of Information Technology**, and **Mycelia Foundation** hereinafter referred to as the “**Grantee**” and collectively referred to as the “**Parties.**”

WHEREAS, the Parties initially executed Student Connect Grant Agreement # STUC-25-008 on March 7, 2025.

WHEREAS, pursuant to the Subsection 63 of Section 5 of the General Appropriation Act of 2025, the expenditure authority for the Connect New Mexico Fund was extended through June 30, 2026.

The purpose of this Amendment is to is to extend the performance period of this grant from June 30, 2025, to June 30, 2026.

IT IS MUTUALLY AGREED BETWEEN THE PARTIES THAT THE FOLLOWING PROVISIONS OF THE ABOVE-REFERENCED GRANT AGREEMENT ARE AMENDED AS FOLLOWS:

ARTICLE 2 – CONTRACT DOCUMENTS

- A. Contract Documents. The “Contract Documents” consist of this Agreement, any amendments to this Agreement executed in writing by the Parties, and the following exhibits, each of which is incorporated into this Agreement as though fully set forth herein:
1. Scope of Work as described in Article 6 of this Agreement (Exhibit A)
 2. Detailed Project Budget (Exhibit B (Amendment #1))
 3. Service Area Map (Exhibit C)
 4. Project Schedule (Exhibit D (Amendment #1))
 5. Request for Reimbursement (Exhibit E)

ARTICLE 5 – EFFECTIVE DATE; PERIOD OF PERFORMANCE; BUDGET PERIOD

- B. Subaward Period of Performance Start and End Date. The period of performance shall start on the Effective Date and the Project must be completed by **June 30, 2026** (hereinafter “Performance Period”). The Office of Broadband may, request approval from New Mexico State Legislature to extend the Performance Period.

- C. Subaward Budget Period Start and End Date. The budget period shall start upon the Effective Date and shall end no later than **June 30, 2026** (hereinafter “Budget Period”). The Department will provide reimbursement for all eligible expenses incurred after the Effective Date. Costs incurred by Grantee after **June 30, 2026**, will not be eligible for reimbursement, and Grantee must submit to the State of New Mexico, no later than 90 calendar days (or an earlier date as agreed upon in writing by Grantee and the State of New Mexico) after the end date of the period of performance, all financial, performance, and other reports as required by the terms and conditions of the award.

All other articles and deliverables of the original agreement remain the same.

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IN WITNESS WHEREOF, the parties have duly executed this Amendment as of the date of execution by the final signatory.

GRANTEE

By: Signed by:
Aaron Casillas
D245F7F86G1B465... _____ 5/12/2025
 Aaron Casillas _____
 CEO
 Mycelia Foundation
 Date

DEPARTMENT OF INFORMATION TECHNOLOGY AND OFFICE OF BROADBAND ACCESS AND EXPANSION

By: Signed by:
Manny Barreras
32A0D00595G7C493... _____ 5/13/2025
 Manny Barreras _____
 Acting Director
 Office of Broadband Access and Expansion
 Date

Cabinet Secretary
Department of Information Technology

Chief Information Officer
State of New Mexico

Approved for Financial Sufficiency:

By: Signed by:
Lisa Jennings
9895G3FF24BE46F... _____ 5/13/2025
 Lisa Jennings _____
 Mobile Chief Financial Officer
 Office of Broadband Access and Expansion and
 Department of Information Technology
 Date

Approved for Legal Sufficiency:

By: DocuSigned by:
Cassandra Brulotte
C0140201B6F94E1... _____ 5/12/2025
 Cass Brulotte _____
 General Counsel
 Office of Broadband Access and Expansion
 Date

Subrecipient Project Name Project ID	Student Connect Program
	Exhibit B - Project Budget [Amendment 1]
	Mycelia Foundation
	Luna County Student Connect
	STUC-25-008



Total Budget	Total Grant	Grant %
\$2,498,496	\$2,498,496	100%

Categories and Eligible Cost Components	Total Budget for Cost Component	Grant Amount Per Cost Component	Grant Percentage	Brief Narrative for Cost
Design and Engineering				
WPSS-ENG-SRVC	\$97,000	\$97,000	100%	Assessment: Analyze demand, available spectrum, site suitability (LoS), and technology options. Design: Optimize base station placement for coverage, plan capacity for user demand and QoS, design
Permitting				
Network Testing and Activation	\$49,000	\$49,000	100%	Eligible under service testing for performance benchmarks
Network Provisioning and Configuration	\$57,240	\$57,240	100%	Aligns with provisioning and activation of new broadband service
Build, Deploy & Test				
WPSS-ONSITE-SUPP-PD	\$18,000	\$18,000	100%	Build: Site prep, equipment installation, backhaul connection, and power/grounding. Deploy: Network configuration, antenna alignment, software installation, and initial testing.
WPSS-SITE-STG-SV-CFG	\$5,000	\$5,000	100%	Test: Coverage and capacity testing, performance optimization, and troubleshooting. Acceptance: Formal testing, documentation, and customer sign-off.
Tower Climbing	\$5,000	\$5,000	100%	Installation and configuration of base nodes at sites 1 and 2
Network Equipment				
Base Node (2 Sites)				
3.55-3.70Ghz Base Node (BN) CBRS	\$106,428	\$106,428	100%	These components form the base station, transmitting/receiving data to/from user terminals (CPEs) within its coverage area. It connects to the core network via backhaul to provide internet access. The mounting kit ensures secure installation and optimal signal propagation. Essentially, it's the "access point" of the fixed wireless network.
5.725-5.850 5.925-6.425 6.525-6.875 GHz Base Node (BN)	\$96,320	\$96,320	100%	
Base Node (BN) Pole Mounting Kit 60.33-127mm (2 3/8-5in) Pole Diameter	\$2,312	\$2,312	100%	
Accessories				
3m Outdoor Shielded Cat5e Ethernet Cable with Harting Push-Pull Connector (one per technician)	\$198	\$198	100%	

5m Outdoor Shielded Power Cable w/ Harting Push-Pull Connector (jumper from Defender or Breakout Box to BN)	\$490	\$490	100%	<p>These accessories facilitate the physical connection and powering of the base station. They provide:</p> <p>Power: Deliver power to the base station for operation.</p> <p>Data Transport: Enable high-speed data transfer between the base station and the core network (via fiber) and technician access (via Ethernet).</p> <p>Reliability: Ensure robust and secure connections in outdoor environments.</p> <p>Essentially, these accessories are the "supporting infrastructure" that enables the base station to function correctly and connect to the broader network.</p>
10m Outdoor Shielded Power Cable w/ Harting Push-Pull Connector (jumper from Defender or Breakout Box to BN)	\$789	\$789	100%	
10m Outdoor Single-Mode Fiber Optic Cable With Harting LC to LC (1-2 per BN) from Breakout Box to BN	\$2,761	\$2,761	100%	
SFP+ Long Range Industrial Temp Duplex LC Connector Single Mode (1 per fiber - Tarana side only)	\$3,669	\$3,669	100%	
Dark Fiber Backhaul 5Gbps	\$40,000	\$40,000	100%	Dark fiber backhaul provides a dedicated, high-bandwidth connection between base stations and the core network via leased or owned fiber optic cable. This ensures high data rates, low latency, scalability, reliability, and security for fixed wireless networks.
Breakout Box				
Outdoor Hybrid Enclosure, 24 fiber, SM, LC, 18 Conductor, with 9 duplex SPD, Alarm, 16.7"H x 16.2"W x 7.9"D, Gland pattern 6	\$22,587	\$22,587	100%	<p>This collection of components creates a centralized point for fiber and power management at the base station site. It provides:</p> <p>Fiber Termination and Distribution: A secure and organized point to terminate and manage fiber optic connections.</p> <p>Power Distribution and Protection: Distributes power to equipment within the enclosure and protects against power surges.</p> <p>Environmental Protection: Shields sensitive equipment from weather, temperature extremes, and other environmental factors.</p> <p>Grounding: Ensures proper grounding for safety and equipment protection.</p>
Outdoor Hybrid Fiber Trunk 24 Fibers, Singlemode, 12 Conductors, 10 Gauge, LC Uniboot, LC Uniboot, 200 Feet	\$17,078	\$17,078	100%	
Lace-Up Hoisting Grip for 1-1/4" (25mm - 31mm) Cable	\$147	\$147	100%	
Universal Grounding Kit for Cable and Assemblies, One size fits all design, 5ft, 6awg lead with unattached two-hole lug	\$211	\$211	100%	
Screw Pin Shackles (5/16" 3/4 Ton)	\$30	\$30	100%	
Outdoor Fiber Jumper, 2 fiber, Singlemode, LC Uniboot, LC Uniboot, 20 feet	\$776	\$776	100%	Please see above
12AWG Outdoor VNTC Power Cable, 2 conductors, Price per Foot, SOI	\$368	\$368	100%	Please see above
Power System				
Intelligent Power Shelf with Control Module and a Single 100A input Battery Module	\$7,204	\$7,204	100%	<p>This power system provides reliable and redundant power to the base stations, ensuring continuous operation even during power outages. The key features include:</p> <p>High Availability: Redundant power modules and battery backup minimize downtime.</p> <p>Overload Protection: Circuit breakers protect equipment from damage.</p> <p>Remote Monitoring/Control: The intelligent power shelf likely allows for remote monitoring and control of the power system.</p> <p>Scalability: The system can be expanded with additional power modules to accommodate future growth.</p>
Power Module, 48VDC, 700W output, Hot Swappable, Floating output.	\$5,746	\$5,746	100%	
Optional Blanking Plate for unused Load Breaker positions	\$0	\$0	0%	
5 amp Hydraulic/Magnetic load breakers	\$108	\$108	100%	
10 amp Hydraulic/Magnetic load breakers	\$540	\$540	100%	Each Tarana BN uses 275W (330W max) running at -48Vdc max 7 amps, 4 x 330W = 1,320W (2 power modules, 2 redundant power modules), 4 x 10amp breakers.
AC Inverter				
Power inverter, 48VDC input, 115VAC 300W output	\$2,074	\$2,074	100%	Provides backup power to the network during an AC power outage. It converts the DC power from battery backup system into AC power that can be used to run essential network equipment.

1RU, 19 inch rack mount kit for 1, 2, or 3 inverters	\$212	\$212	100%	Provides backup power to the network during an AC power outage. It converts the DC power from battery backup system into AC power that can be used to run essential network equipment.	
Battery Backup					
GS Yuasa Batteries PYL12V100FT 4 Battery System, 48VDC, 100Ah	\$9,854	\$9,854	100%	Provides backup power to the network during an AC power outage. It converts the DC power from battery backup system into AC power that can be used to run essential network equipment.	
Cables from the battery system to the ICT(2AWG 3 ft)	\$1,831	\$1,831	100%	Provides backup power to the network during an AC power outage. It converts the DC power from battery backup system into AC power that can be used to run essential network equipment.	
Cabinet					
Winncom 5G Enclosure with Load Center, Gen Plug, and HVAC	\$12,990	\$12,990	100%	This is the outdoor cabinet that will house and protect all critical network equipment, such as the power supply and battery backup. It's designed to withstand harsh weather conditions and provide a secure environment for the sensitive electronics devices.	
Cabinet Platform					
Modular Equipment Platform Base 4'x6'	\$1,330	\$1,330	100%		
Large Footpad	\$872	\$872	100%		
Site Router					
Cloud Core Router 2004-1G-12S+2XS with Annapurna Alpine AL32400 CPU (4-cores, 1.7GHz per core), 4GB RAM, 1x GLAN, 12x 10G SFP+ cages, 2x 25G SFP28 cages,	\$2,018	\$2,018	100%	Traffic Routing: Directs traffic between base stations, the core network, and the internet. Network Segmentation: Creates separate network segments for different purposes (e.g., management, user traffic).	
SFP+ Module 10G SM (Singlemode) 10km 1310nm Dual LC-connector	\$3,218	\$3,218	100%	Firewall and Security: Provides security features to protect the network from unauthorized access and threats.	
RJ45 SFP+ 10/100/1000M/2.5G/5G/10G Copper Module	\$440	\$440	100%	Quality of Service (QoS): Prioritizes different types of traffic to ensure optimal performance for critical applications. Network Management: Offers tools for monitoring and managing the network.	
Tower Accessories					
Materials: Tower steel, Anchor bolts,	\$77,748.00	\$77,748	100%	These components are essential for the physical infrastructure of the fixed wireless network. They provide: Structural Support: The tower and foundation provide a stable platform for antennas and equipment. Mounting and Cable Management: Ensure secure and organized installation of equipment and cables. Grounding: Protect against lightning and electrical hazards. Environmental Protection: Shield equipment from weather and other environmental factors. This comprehensive set of tower accessories ensures the safe and reliable operation of the fixed wireless network, providing a robust platform for delivering high-quality service to end users.	
Materials: Ice Bridge, Grounding	\$8,447.00	\$8,447	100%		
Materials: Tower foundation &	\$15,135.00	\$15,135	100%		
Labor: Tower Erection	\$30,876.00	\$30,876	100%		
Labor: Tower Foundation	\$25,002.00	\$25,002	100%		
Labor: Grounding, Ice Bridge, Penetrating	\$6,631.00	\$6,631	100%		
Sublet: Crane	\$8,975.00	\$8,975	100%		
Sublet: Geotechnical Survey	\$7,750.00	\$7,750	100%		
Sublet: Concrete, Compaction, Rebar	\$4,384.00	\$4,384	100%		
Mobilization	\$3,181.00	\$3,181	100%		
Per diem and lodging	\$6,888.00	\$6,888	100%		
Equipment: Trackhoe, Water Buffalo,	\$12,295.00	\$12,295	100%		
Sublet: Site drawings	\$7,500.00	\$7,500	100%		
Permitting	\$7,400.00	\$7,400	100%		
Sublet: Fence	\$10,000.00	\$10,000	100%		
Sublet: locate	\$950.00	\$950	100%		
Materials: L/A install includes mounts	\$11,251.00	\$11,251	100%		
Labor: L/A install	\$9,611.00	\$9,611	100%		
SIAE Microwave Link					

ALFOPlus2XG 11 GHz Outdoor Link, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0 software upgradable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Port Radio Branching, 1 year warranty	\$17,590	\$17,590	100%	The SIAE ALFOPlus2XG 11 GHz microwave link establishes a point-to-point, full-duplex connection between primary and secondary sites for network extension and capacity delivery. Operating in Sub-Band 1 (10715-10895 MHz / 11205-11385 MHz), it offers 300 Mbps capacity (software upgradeable to 1500 Mbps), supports 1+0 (upgradeable to 2+0) configurations, and utilizes QPSK to 4096QAM modulation. It features 2x GbE, 1x 10GbE, and 1x optical GbE ports with OMT radio branching. This link provides a high-bandwidth, scalable, and rapidly deployable alternative to fiber for extending network coverage and serving an expanded customer base.
Each ALFOPlus2 Link Consists of the following:				
ALFOPlus2 ODU, High Band, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, BPSK to 4096QAM, 1 year warranty	\$0	\$0	0%	Included in Promo Bundle with "SIAE Microwave Link" device.
ALFOPlus2 ODU, Low Band, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, BPSK to 4096QAM, 1 year	\$0	\$0	0%	
Branching Unit (ODU to Antenna Interface)	\$0	\$0	0%	
ALFOPlus2 ODU to Antenna Support Bracket	\$0	\$0	0%	
Waterproof IP67 Connector (Rosenberger)	\$0	\$0	0%	
ODU Grounding Kit	\$0	\$0	0%	
Pointing Cable	\$0	\$0	0%	
M12 Power Supply Connector	\$0	\$0	0%	
RJ45 Extractor Tool	\$0	\$0	0%	
Software Upgrades				
Capacity Upgrade to 750 Mbps (1+0), 1500 Mbps (2+0)	\$0	\$0	0%	
Dual Carrier, 2+0 / XPIC Operation	\$0	\$0	0%	
Adaptive Code Modulation (ACM)	\$0	\$0	0%	
Fire Station Configuration				
11 GHz Antenna, 3ft, Dual Pole, Circular Flange, SIAE Direct Mount	\$1,678	\$1,678	100%	This configuration enables the secondary site to effectively receive the microwave signal, extract the data, and distribute it to the local network. It mirrors the primary site setup to ensure a balanced and symmetrical link. Key functions include: Signal Reception/Transmission: The antenna receives the incoming microwave signal and transmits data back to the primary site. Data Integration: The SFP module and fiber jumper cable integrate the received data into the network at the secondary location. Powering the Link: The PoE injector powers the microwave unit. Equipment Protection: The surge arrestor safeguards the equipment from electrical damage. This setup completes the point-to-point microwave link, allowing you to extend your network and deliver high-speed internet access to customers in the area covered by the secondary site.
Main Traffic Fiber SFP Plug-In	\$553	\$553	100%	
Main Traffic Fiber Jumper Cable	\$800	\$800	100%	
Power Over Ethernet Injector	\$544	\$544	100%	
PoE Accessory: NOTE: AC PoE requires ICD001408 AC Cord, DC Indoor requires P04189 DC Plug	\$17	\$17	100%	
Indoor RJ45 CAT5 Surge Arrestor	\$340	\$340	100%	
CPE Equipment and Installation				
Remote Node				
3.6 GHz Residential Node (RN), FCC,POE,MOUNT	\$238,472	\$238,472	100%	These components form the customer-facing end of your fixed wireless network. They provide:

6 GHz Residential Node (RN), POE,MOUNT	\$208,026	\$208,026	100%	
Power Cord - US - AC Power Line Cord with US power plug, C13 connector, 6'.	\$3,315	\$3,315	100%	Wireless Connectivity: The remote nodes receive the wireless signal from your base stations, establishing the connection to your network.
G1-Speed-Unlock BW License Upgrade - Perpetual Unlocked License - DL Throughput	\$60,000	\$60,000	100%	Internet Access: They provide internet access to the household, with the option for higher speeds through the bandwidth unlock license. Wi-Fi Coverage: The Wi-Fi access point creates a wireless network within the home for connecting devices. Surge Protection: The surge protector safeguards the equipment from electrical damage.
Transtector ALPU-Fit Surge Protector, GbE, PoE+, PoE++, 60VDC 1.5A 100W, IP65 (1 per RN)	\$64,285	\$64,285	100%	
Nokia Beacon 6 Wi-Fi 6 Access Point, 802.11ax 2+2+4, 3x GE LAN, 1x USB 3.0, US plug	\$97,494	\$97,494	100%	
TCS Data Monitoring	\$85,158	\$85,158	100%	
Customer Installation				
Installation of homes (labor)	\$114,000	\$114,000	100%	CPE including Router installation
Field Deployment Services	\$58,000	\$58,000	100%	SAS Service connection and configuration
Administrative				
Grant Management	\$215,000	\$215,000	100%	Pre-award Budget Development: Detailed budget creation and justification for the grant application. Grant Compliance Monitoring: Ensuring all expenditures align with grant terms. Real-time Cost Tracking: Meticulous tracking of all costs, separating reimbursable and non-reimbursable expenses. Expedited Invoice Processing: Rapid invoice processing and submission to the state for reimbursement. Financial Reporting: Preparing accurate and timely financial reports for the state. Performance Metric Tracking: Tracking key performance indicators (KPIs) related to network uptime, coverage, and speeds to demonstrate grant objective fulfillment. Data Compilation for Reporting: Collecting and organizing network performance data from various sources for reporting to the state.
Project Management	\$232,781	\$232,781	100%	Accelerated Project Scheduling: Developing and managing an aggressive project schedule to meet deadlines. Vendor/Contractor Management: Overseeing contracts and ensuring timely delivery of equipment and services. Construction Coordination: Coordinating with construction crews and ensuring adherence to quality standards. Risk Mitigation: Proactive identification and mitigation of project risks.
Network Technology	\$225,000	\$225,000	100%	Customer Support: Providing technical support to customers experiencing connectivity issues. Field Service: Conducting "truck rolls" to customer premises to troubleshoot and resolve issues on-site when necessary. Documentation: Maintaining records of network performance, maintenance activities, and customer interactions.
Long-term Tower Infrastructure	\$21,600	\$21,600	100%	category for network facilities
Onsite Equipment Shelter Purchase	\$18,000	\$18,000	100%	Supports deployment of broadband infrastructure
Environmental Permitting and Mitigation	\$5,000	\$5,000	100%	Eligible under upfront permitting and regulatory prep
Total	\$2,498,496	\$2,498,496	100%	

Student Connect Program	
Exhibit D - Project Schedule [Amendment 1]	
Subrecipient	Mycelia Foundation
Project Name	Luna County Student Connect
Project ID	STUC-25-008



Project Schedule Status	% Complete
Not Started	57%
In Progress	29%
Completed	14%

WBS#	Activity	Status	Start Date	End Date	Duration (Days)	Comment
1	Design and Engineering	Completed	4/7/2025	4/27/2025	20	
2	Environmental Assessment & Permitting (Right of way, easements, etc)	In progress	5/1/2025	6/1/2025	31	
3	Make Ready & Site Prep	Not started	6/1/2025	6/15/2025	14	
4	Build, Deploy & Test	Not started	8/1/2025	8/15/2025	14	
5	Service Ready, Launch and Operations	Not started	9/1/2025	9/15/2025	14	
6	Customer Installation	Not started	9/15/2025	6/15/2026	273	
7	Marketing, Sales and Adoption Campaigns	In progress	4/1/2025	5/1/2026	395	

Initial