PUERTO RICO AIR NATIONAL GUARD

FIBER OPTIC INFRASTRUCTURE INSTALLATION FOR NEW COMMUNICATIONS FACILITY

SCOPE OF WORKS

1.0 General.

1.1. Scope. Perform communications infrastructure installation for the new Communications Squadron facility. The Contractor shall provide all personnel, labor, equipment, tools, materials, supervision, and quality control necessary, except as specified in Section 4.0 as Government Furnished, to engineer, install, terminate and test new and augmented fiber optic infrastructure as specified herein. The overall objective is to connect the new CS facility to key buildings across the installation, providing both new primary and redundant connectivity at Muñiz Air National Guard Base, Carolina Puerto Rico 00979, as defined in this SOW.

1.2. Background. The 156th Wing's primary network core node, located in Building 5, must be relocated as the building has been condemned to be demolished. A new, purpose-built Communications Squadron (CS) facility has been constructed to serve as the new primary service delivery point for the installation. This project is a mission-essential action to establish the necessary fiber optic pathways to make the new CS facility fully operational and ensure the continuity of all base network operations.

1.3. Period of Performance (PoP). The Period of Performance shall not be more than sixty calendar days (60) starting from receipt of award to include final inspections and acceptance. Extensions to the Period of Performance may be granted if supply chain constraints are evidenced and formally submitted to the Government.

2.0 General Requirements.

2.1. Quality Control (QC). The Contractor should develop and maintain an effective Quality Control Plan (QCP) to ensure services are performed in accordance with this SOW. The Contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The Contractor's QCP is how it assures itself that its work complies with the requirements of the contract. As a minimum, the Contractor shall develop QC procedures that address the areas identified in Technical Exhibit 1, Performance Requirements Summary and Technical Exhibit 2. After acceptance of the QCP, the Contractor shall obtain from the Contracting Officer's (KO) acceptance in writing of any proposed changes to its QCP.

2.2. Quality Assurance (QA). The Government shall evaluate the Contractor's performance under this contract in accordance with the Quality Assurance Surveillance Plan (QASP). This plan is primarily focused on what the Government must do to ensure that the Contractor has performed in accordance with the performance standards. It defines how the performance standards will be applied, the frequency of surveillance, and acceptable quality level(s) (defect rate(s)).

2.3. Recognized Holidays. The following are recognized US holidays. The Contractor shall not perform services on these days:

- January 1, 2026 - New Year's Day
- January 20, 2026 - Martin Luther King, Jr.'s Birthday
- February 17, 2026 - President's Day
- May 25, 2026 - Memorial Day
- July 3, 2026 - Independence Day

- September 7, 2026 - Labor Day
- October 12, 2026 - Columbus Day
- November 11, 2026 - Veteran's Day
- November 28, 2026 - Thanksgiving Day
- December 25, 2026 - Christmas Day

2.4. Place and Performance of Services. Performance shall be at Muñiz Air National Guard Base, Carolina, Puerto Rico. The base is accessible for Contractor work from 0600 to 1800, Monday through Friday; however, the Government client and Point of Contact (POC) are only available between the hours of 0730 to 1600, Monday through Friday, except on recognized US holidays or when the installation is closed due to local or national emergencies. The Contractor shall always maintain an adequate workforce for the uninterrupted performance of all tasks defined within this SOW when the Government facility/installation is not closed for the above reasons. When hiring personnel, the Contractor should keep in mind that stability and continuity of the work force are essential. Telecommuting is not authorized.

2.5. Security Requirements. The Contractor shall comply with all applicable installation/facility access and local security policies and procedures, which may be obtained from the contract Point of Contact (POC). The Contractor shall also provide all information required for background checks to meet installation access requirements to be accomplished by installation Security Forces Squadron and the Director of Emergency Services. The Contractor shall ensure compliance with all personal identity verification requirements as directed by DOD, HQDA and/or local policy. Should the Force Protection Condition (FPCON) change, the Government may require changes in Contractor security matters or processes**.**

2.6. Unscheduled gate closures by the Security Forces may occur at any time causing all personnel entering or exiting a closed installation to experience a delay. This cannot be predicted or prevented. Contractors are not compensated for unexpected closures or delays. Vehicles operated by Contractor personnel are subject to search pursuant to applicable regulations. Any moving violation of any applicable motor vehicle regulation may result in the termination of the Contractor employee's installation driving privileges.

2.7. The Contractor's employees shall become familiar with and obey the regulations of the installation, including fire, traffic, safety and security regulations while on the installation. Contractor employees should only enter restricted areas when required to do so and only upon prior approval. All contract employees shall always carry proper identification with them. The Contractor shall ensure compliance with all regulations and orders of the installation which may affect performance.

2.8. COMSEC/IT Security. All communications with DOD organizations are subject to communications security (COMSEC) review. All telephone communications networks are continually subject to intercept by unfriendly intelligence organizations. DOD has authorized the military departments to conduct COMSEC monitoring of telephone calls originating from, or terminating at, DOD organizations. Therefore, the Contractor is advised that at any time the Contractor place or receive a call they are subject to COMSEC procedures. The Contractor shall ensure wide and frequent dissemination of the above information to all employees dealing with DOD information. The Contractor shall abide by all Government regulations concerning the authorized use of the Government's computer network, including the restriction against using the network to recruit Government personnel or advertise job openings.

2.9. Use of Government Information Systems (IS) and access to Government networks is a revocable privilege, not a right. This contract does not require use of Government Information Systems.

2.10. Protection of Personally Identifiable Information (PII). The Contractor shall protect all Personally Identifiable Information (PII) encountered in the performance of services in accordance with DFARS 224.103 and DoD 5400.11, Department of Defense Privacy Program, and DoD 5400.11-R. If a PII breach results from the Contractor's violation of the aforementioned policies, the Contractor shall bear all notification costs, call-center support costs, and credit monitoring service costs for all individuals whose PII has been compromised.

2.11. Antiterrorism Level 1 Awareness Training (AT). All Contractor employees requiring access to Air Force Installations, facilities, and controlled access areas shall complete Level 1 AT within 10 calendar days after contract start date and within 10 calendar days of new employees commencing performance. The Contractor shall submit certificates of completion for each affected Contractor and subcontractor employee, to the POINT OF CONTACT (POC), or to the KO if a POINT OF CONTACT (POC) is not assigned, within 10 calendar days after completion of training. Level 1 AT is available at https://jko.jten.mil/courses/atl1/launch.html.

2.12 RESERVED.

2.13. OPSEC Training. In accordance with AR 530-1, Operations Security, new contract employees, shall complete Level I OPSEC training within 10 calendar days of their reporting for duty and annually thereafter. The Contractor shall submit certificates of completion for each affected Contractor employee, to the POINT OF CONTACT (POC), or to the KO if a POINT OF CONTACT (POC) is not assigned, within 10 calendar days after completion of training. Level 1 OPSEC training is available at https://secure.jten.mil/jkohd/sponsored.jsp**.**

2.14. Physical Security. The Contractor shall safeguard all Government property provided for Contractor use. At the close of each work period, Government facilities, equipment and materials shall be secured.

2.15. Key Control. This SOW does not require handling of keys.

2.16. Special Qualifications. The Government does not provide training for Contractors. Contractors must ensure that any personnel performing under a contract are fully trained, and qualified to provide services.

2.17. Accident/Incident Reporting and Investigation. The Contractor shall record and report all facts relating to each instance of injury to either Contractor or Government personnel. Notification shall be provided to the 156 CS Project Manager, the Contracting Officer, and the Base Safety Office unless otherwise stated in the SOW. The Contractor shall secure the scene of any accident and wreckage until released by the accident investigative authority through the 156 CS Project Manager. If the Government elects to conduct an investigation of the incident, the Contractor shall cooperate fully and assist the Government personnel until the investigation is completed.

2.18. Confined Space. The Contractors entering confined spaces on Muñiz Air National Guard Base, Puerto Rico are responsible for the safety of their personnel and for developing, implementing, and maintaining their own permit-required confined space program in strict accordance with Occupational Safety and Health Administration (OSHA) standards (such as 29 CFR 1910.146 and/or 29 CFR 1926 Subpart AA, DoDI 6055.01 and DAFI 91-202 per contract requirements. The Contractor shall provide all required atmospheric testing, ventilation, personal protective equipment (PPE), and emergency rescue equipment as mandated by OSHA. The Contractor is required to conduct its own exposure monitoring during permit-required confined space operations. Bioenvironmental Engineering (BE) will not test or monitor a confined space for a contracted confined space operation (Reference: DAFMAN 91-203, 23.12.1.1.). Additionally, the Contractor must conduct continuous atmospheric testing while personnel are inside the maintenance hole, rather than just pre-entry clearance testing. Rescue services for

contractors will not be provided by the Fire and Emergency Services (F&ES) Flight without specific written approval from the fire chief (Reference: DAFMAN 91-203, 23.12.1.2.). The primary Contractor is responsible for ensuring all confined space operations comply with these OSHA standards. The Contractor must coordinate all confined space entry operations with the Base Safety Office and Base Fire Department for situational awareness prior to entry.

2.19. Permits. The Contractor shall be responsible to coordinate, complete and process all necessary permits prior to entering or modifying any maintenance hole (MH). Confined space entry permits shall be generated by the Contractor and coordinated through the Base Safety Office. The Contractor must be prepared to provide the Base Safety Office with proof of their OSHA-compliant Confined Space Training Program alongside these entry permits.

2.20. Work Area(s). All work areas will restrict access via safety barriers and warning signs IAW Title 23 United States Code of Federal Regulations (CFR), Part 655, Subpart F, *Manual on Uniform Traffic Control Devices*, 29 CFR 1910.268, *Telecommunications,* DAFMAN 91-203, *Air Force Occupational Safety, Fire, and Health Standards*, and Department of Defense Instruction (DODI) 6055.01, *DoD Safety and Occupational Health (SOH) Program*.

At the end of each workday, the Contractor shall securely close all opened MH. The Contractor shall coordinate with the 156 CS Project Manager to ensure that any locking maintenance hole covers are put back in place daily. The Contractor shall remove all debris and surplus materials from the work area. Appropriate safety barriers shall be in place to protect unfinished work sites at the end of the day. Equipment and materials required to complete the work effort may remain on site if they are organized/stored in a manner that does not cause a safety hazard.

2.21. Traffic Control. In the event base vehicular traffic will be disrupted by the work being performed, the Contractor shall notify the 156 CS Project Manager no later than five (5) calendar days in advance to inform base Security Forces and Emergency Services personnel of the planned disruptions.

2.22. Post Award Conference/Periodic Progress Meetings. The Contractor agrees to attend any post award conference convened by the KO in accordance with Federal Acquisition Regulations Subpart 42.5. The KO, contract POINT OF CONTACT (POC), and other Government personnel, as appropriate, may meet periodically with the Contractor to review the contactor's performance. At these meetings, the Contacting Officer will appraise the Contractor of how the Government views the Contractor's performance and the Contractor shall appraise the problems of Government, if any, being experienced, the Contractor shall resolve outstanding issues raised by the Government. Contractor attendance at these meetings shall be at no additional cost to the Government.

2.23. Contract Manager (CM). The Contractor shall designate a CM who shall ensure performance under this contract. The name of this person, and an alternate who shall act for the Contractor when the CM is absent, shall be designated in writing to the KO within 3 calendar days after contract award. The CM or alternate shall have full authority to act for the Contractor on all contract matters relating to daily operation of this contract. The CM shall work through the POC, or the KO if a POC is not assigned, to resolve issues, receive technical instructions, and ensure adequate performance of services. The CM shall ensure that Contractor employees do not perform any services outside the scope of the contract without an official modification issued by the KO. The CM shall ensure Contractor employees understand that services performed outside the scope of the contract are performed wholly at the expense of the Contractor.

2.24. Identification of Contractor Employees. All Contractor personnel attending meetings, answering Government telephones and working in other situations where their status is not obvious to third parties, are

required to identify themselves as such to avoid creating an impression that they are Government employees. The Contractor should ensure that all documents or reports produced by Contractor personnel are suitably marked as Contractor products or that Contractor participation is appropriately disclosed. The Contractor's status as a "Contractor" shall be predominantly displayed in all POC respondence types (to include signature blocks on e-mail) and dealings with Government or non-Government entities/ Contractor personnel shall wear identification badges distinguishing themselves as such. The badges shall have the company name, employee name and the word "Contractor" displayed. The Contractor shall retrieve all identification media (including vehicle passes) from their employees who depart employment for any reason. All identification media (i.e., badges and vehicle pass) shall be returned to the POC within the 10 days of an employee's departure.

2.25. Combating Trafficking in Persons. The United States Government has adopted a zero-tolerance policy regarding trafficking in persons. Contractors and contract employees shall not engage in any forms of trafficking in persons during the period of performance of the contract; procure commercial sex acts during the period of performance of the contract; or use forced labor in the performance of the contract. The Contractor shall notify its employees of the United States Government's zero tolerance policy, the actions that will be taken against employees for violations of this policy. Such actions may include, but are not limited to, removal from the contract, reduction in benefits, or termination of employment. The Contractor shall take appropriate action, up to and including termination, against employees or subcontractors that violate the US Government policy as described at FAR 22.17. Contractor shall complete the following online training within 10 calendar days after contract award: Course number is A-US1328-A; available at: https://jko.jten.mil.

2.26. Contractor Travel: Not authorized on this SOW.

2.27. Data Rights: The Government has unlimited rights to all documents/material produced under this contract. All documents and materials, to include the source codes of any software, produced under this contract shall be Government owned and are the property of the Government with all rights and privileges of ownership /copyright belonging exclusively to the Government. These documents and materials may not be used or sold by the Contractor without written permission from the KO. All materials supplied to the Government shall be the sole property of the Government and may not be used for any other purpose. Provide a copy 10 calendar days after contract completion. This right does not abrogate any other Government rights.

2.28. Organizational Conflicts of Interest (OCI): The Contractor and subcontractor personnel performing services under this contract may receive, have access to or participate in the development of proprietary or source selection information (e.g., cost or pricing information, budget information or analyses, specifications or work statements, etc.) or perform evaluation services which may create a current or subsequent OCIs, as defined in FAR Subpart 9.5. The Contractor shall notify the KO immediately whenever it becomes aware that such access or participation may result in any actual or potential OCI and shall promptly submit a plan to the KO to avoid or mitigate any such OCI. The Contractor's mitigation plan will be determined to be acceptable solely at the discretion of the KO and in the event the KO unilaterally determines that any such OCI cannot be satisfactorily avoided or mitigated, the KO may affect other remedies as he or she deems necessary, including prohibiting the Contractor from participation in subsequent contracted requirements which may be affected by the OCI.

3.0. Definitions and Acronyms.

3.1. Definitions.

3.1.1. CONTRACTOR. A supplier or vendor awarded a contract to provide specific supplies or services to the government. The term used in this contract refers to the prime.

3.1.2. CONTRACTING OFFICER (KO). A person with authority to enter, administer, and or terminate contracts, and make related determinations and findings on behalf of the government. Note: The only individual who can legally bind the government.

3.1.3. POINT OF CONTACT (POC). An employee of the U.S. Government designated by the KO to monitor Contractor performance. Such appointment shall be in writing and shall state the scope of authority and limitations. This individual has authority to provide technical direction to the Contractor if that direction is within the scope of the contract, does not constitute a change, and has no funding implications. This individual does NOT have authority to change the terms and conditions of the contract.

3.1.4. DEFECTIVE SERVICE. A service output that does not meet the standard of performance associated with the Scope of Works.

3.1.5. DELIVERABLE. Anything that can be physically delivered and includes non-manufactured things such as meeting minutes or reports.

3.1.6. KEY PERSONNEL. Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract by the Key Personnel listed in the SOW. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the personnel that are listed in the proposal.

3.1.7. PHYSICAL SECURITY. Actions that prevent the loss or damage of Government property.

3.1.8. QUALITY ASSURANCE. The government procedures to verify that services being performed by the Contractor are performed by a Point of Contact (POC) proceeding to acceptable standards.

3.1.9. QUALITY ASSURANCE SURVEILLANCE PLAN (QASP). An organized written document specifying the surveillance methodology to be used for surveillance of Contractor performance.

3.1.10. QUALITY CONTROL. All necessary measures taken by the Contractor to assure that the quality of an end product or service shall meet contract requirements.

3.1.11. SUBCONTRACTOR. One that enters into a contract with a prime Contractor. The Government does not have privity of contract with the subcontractor.

3.1.12. WORKDAY. The number of hours per day the Contractor provides services in a Point of Contact (POC) in correspondence with the contract.

3.1.13. WORK WEEK. Monday through Friday, unless specified otherwise.

3.2. Acronyms.

AQL Acceptable Quality Level
ANG Air National Guard
AR Army Regulation
CFR Code of Federal Regulations
CM Contract Manager
POC POINT OF CONTACT

DA Department of the Army
DD250 Department of Defense Form 250 (Receiving Report)
DD254 Department of Defense Contract Security Requirement List
DFARS Defense Federal Acquisition Regulation Supplement
DOD Department of Defense
FAR Federal Acquisition Regulation
FPCON Force Protection Condition
IT Information Technology
JFHQ Joint Forces Headquarters
KO Contracting Officer
MDF Medium Density Fiber Optic
NLT Not Later Than
OPSEC Operations Security
OSP Outside Plant
PII Protection of Personally Identifiable Information
POC Point of Contact
PRS Performance Requirements Summary
SOW Scope of Work
QA Quality Assurance
QASP Quality Assurance Surveillance Plan
QC Quality Control
SME Subject Matter Experts
TE Technical Exhibit

4.0. Government Furnished Property, Material, Equipment and Services (GFP/M/E/S). The Government will provide the property, material, equipment, and/or services listed below solely for the purpose of performance under this contract.

4.1. Property: None.

4.2. Materials: None.

4.3. Equipment: None.

4.4. Services and Information.

4.4.1. The Government will provide the required routing paths to the Contractor after contract award. The Government maintains a digital platform with maintenance hole locations, distances, and existing infrastructure. The Contractor can query the appropriate POC during contract execution to assist with the installation.

4.4.2. An Engineering and Installation (E&I) squadron has verified the provided routes as viable. No new conduits, trenching, or directional boring are required for this installation.

4.5. Utilities: All utilities in the facility will be available for the contactor's use in the performance of this contract. The Contractor shall instruct employees in utilities conservation practices. The Contractor shall operate

under conditions that preclude the waste of utilities, which include turning off the water faucets or valves after using the required amount.

5.0. Contractor Furnished Property, Materials, and Equipment (CFP/M/E).

5.1. General: Except for those items specifically stated to be Government-Furnished in Section 3.0, the Contractor shall furnish everything required to perform these services as indicated in Paragraph 1.1.

6.0. Requirements.

6.1. The Contractor shall conduct and perform work being requested in this SOW.

6.2. The Contractor shall comply with Section 508 of the Rehabilitation Act (29 U.S. § 794d), as amended by the Workforce Investment Act of 1998 (P.L. 105-220), August 7, 1998. The Contractor shall provide compliance information per model offered (http://www.section508.gov or http://www.access-board.gov/508.htm or http://www.w3.org/WAI/Resources).

Specific Installation Tasks

The Contractor shall perform the following tasks:

7.0. Task 1: 12-Strand Fiber Optic Connections

The Contractor shall install new 12-strand single-mode fiber optic cables along the following routes. Note: Distances and maintenance hole (MH) counts provided are estimates that include required service loops. The Contractor must plan for variations. Maintenance holes may be flooded and require pumping prior to access (see Section 12.1).

7.1. Install from Building 14 to Building 22 (Estimated 1,400 ft, traversing 6 MHs).

7.2. Install from Building 12 to Building 80 (Estimated 1,700 ft, traversing 6 MHs).

7.3. Install from Building 103 to Building 80 (Estimated 1,700 ft, traversing 6 MHs).

7.4. Install from Building 3 to Building 300 (Estimated 4,300 ft, traversing 20 MHs).

7.5. Install from Building 9 to Building 300 (Estimated 4,300 ft, traversing 20 MHs).

8.0. Task 2: 72-Strand Fiber Optic Connections

The Contractor shall install new 72-strand single-mode fiber optic backbone cables along the following routes. Note: Distances and MH counts provided are estimates that include required service loops. The Contractor must plan for variations. Maintenance holes may be flooded and require pumping prior to access (see Section 12.1).

8.1. Install between Building 22 and Building 80 (Estimated 3,000 ft, traversing 12 MHs).

8.2. Install between Building 22 and Building 300 (Estimated 2,700 ft, traversing 10 MHs).

8.3. Install between Building 300 and Building 80 (Estimated 1,000 ft, traversing 4 MHs).9.0. Key Consideration: Path Diversity for Redundant Connections

9.0. Technical Requirements

9.1. All fiber optic cables shall be single-mode, suitable for outdoor/underground and indoor plenum-rated use as required. It is acceptable for the Contractor to use a higher capacity cable (e.g., substituting 96-strand for 72-strand) if economically beneficial or more readily available.

9.2. All installations shall be performed in accordance with TIA/EIA standards.

9.3. The Contractor shall install a rack-mountable fiber optic patch panel for all cable terminations. Standard 19-inch racks are already available in the communications rooms for the installation of these patch panels.

9.4. Fibers shall be terminated with Angled Physical Contact (APC) LC connectors. All individual fiber strands (i.e., all 12 strands and all 72 or 96 strands) must be fully terminated in the patch panels inside each building's communications room.

9.5. All newly installed cables and strands shall be clearly identified and labeled. The Contractor shall apply labels at both terminal ends of the cable, on the cables as they enter and exit every maintenance hole, and directly on all service loops. All labeling must be machine-printed and comply with the current TIA-606-D standard.

9.6. The Contractor shall perform end-to-end testing on every installed strand, including Optical Time Domain Reflectometer (OTDR) and power meter testing.

9.7. Service Loops: The Contractor shall provide a service loop of fifty (50) feet on every third (3rd) maintenance hole along a straight line and at every turn or change of direction along the installation pathway. These loops must be securely hung and supported.

9.8. Splicing: In the event that any splices are required to meet the end-to-end connection requirements, the Contractor shall use the fusion splicing method exclusively. All splices must be secured in a rack-mounted splice tray.

9.9. Empty Conduits and Innerduct: If an empty conduit is available along the Government-provided route, the Contractor must utilize it. Within these empty conduit sections (totaling approximately 3,300 feet), the Contractor shall install a textile fabric-mesh innerduct solution (such as MaxCell) to subdivide the conduit space. Installation of innerduct is not viable or required in conduit runs that are already occupied by existing cabling.

10.0. Deliverables

10.1. Upon completion of the project, the Contractor shall provide the following:

10.1.1. A fully functional, tested, and ready-to-use fiber optic infrastructure as specified in Section 1.0.

10.1.2. Comprehensive test reports for every fiber strand installed, showing insertion loss and OTDR trace results.

10.1.3. A complete set of "as-built" drawings detailing the exact routes of all newly installed cables and innerduct. Additionally, any obsolete or decommissioned cabling that the Contractor chooses to remove during the installation process must be clearly documented and marked as "removed" on these drawings.

11.0. Field Conditions and Responsibilities

11.1. Existing Maintenance Holes. The Contractor shall be responsible for pumping out MH. Water from MH shall be drained onto grass, when possible, to act as a natural filter; then it may be pumped out onto the surrounding ground, as long as there is no impact to roads, driveways, or vehicle traffic. Mud and debris shall be disposed of IAW base requirements. If the Contractor comes across a MH with contaminated water hazardous to health, the Contractor shall cease operations and immediately notify the 156 CS Project Manager and Base Safety Office. As the 156 Wing personnel do not perform confined space entries, the Contractor shall be solely responsible for utilizing their own OSHA-compliant safety and hazardous material protocols to mitigate the hazard prior to resuming operations.

11.2. Protection of Existing Infrastructure. The Contractor shall take precautions to protect existing infrastructure. If a utility is damaged attributed to the fault of the Contractor, then the Contractor shall repair and return the utility back to the condition prior to the damage**.**

11.3. Measurements. Distances provided in this SOW are for estimates only and should NOT be used for ordering materials or determining duct lengths. The Contractor is responsible for taking measures prior to starting work or ordering materials.

11.4. Material Disposal. The Contractor is responsible for the proper removal and off-base disposal of all excess installation materials, trash, and debris generated during the execution of this contract.

11.5. Optional Removal of Obsolete Cabling. The removal and disposal of existing obsolete or decommissioned cabling is not within the primary scope of this project. However, to facilitate a smoother installation process, the Contractor is authorized, at their own expense, to remove and dispose of obsolete cabling from the designated pathways. Under no circumstances shall the Contractor cut, splice, or remove any existing cable without first obtaining explicit, written verification and approval from the 156 CS Project Manager that the specific cable is decommissioned and safe to remove. The Contractor shall assume full liability and cost for the immediate repair of any active utilities damaged or severed during this process. Any obsolete cabling that is removed must also be disposed of off-base in accordance with local environmental regulations.

12.0. Warranty

12.1. Contractor shall provide in written, at least, one year of warranty in service, installation and components of the single mode fiber optic cable and the telephone copper cable.

12.2. Single mode fiber optic cable manufacturer shall provide at least 15 years warranty, and the Contractor shall be the point of contact to claim the warranty.

12.3. Telephone copper cable manufacturer shall provide at least 15 years warranty, and the Contractor shall be the point of contact to claim the warranty**.**

Technical Exhibit 1

Performance Requirements Summary

This Performance Requirements Summary includes performance standards applicable to this SOW. The Government will use these standards to determine Contractor performance and will compare Contractor performance to the Acceptable Quality Level (AQL).

SOW Paragraph	Task	Performance Standard	Acceptable Quality Levels (AQL)	Surveillance Method By Whom
2.4	Timely Performance	Available for on-site performance no later than 0730 hours daily.	100%	Periodic Inspection / POC
7.0 – 8.0	Fiber Optic Cable Installation	All OSP fiber cables installed per approved route plan without kinks, damage, or exceeding bend radius. Interior cables are neat and secure.	100%	100% Visual Inspection / POC
9.3	Patch Panel Installation & Dressing	Patch panel is securely mounted. Incoming fiber includes a service loop and is neatly dressed with Velcro straps (zip ties prohibited).	100%	100% Visual Inspection / POC

SOW Paragraph	Task	Performance Standard	Acceptable Quality Levels (AQL)	Surveillance Method By Whom
9.4	Fiber Optic Termination	All specified strands terminated on both ends with APC LC connectors. Workmanship is clean with no exposed or damaged fibers.	100%	100% Visual Inspection / POC
9.5	Labeling	All cables and ports are labeled at terminal ends, entry/exit points of every MH, and on all service loops with machine-printed labels per the current TIA-606-D standard.	100%	100% Visual Inspection / POC
9.6	Testing and Certification	Deliver test reports showing 100% of strands pass TIA-568 loss budget and have clean OTDR traces.	100%	Review of Certified Test Reports / POC
9.7	Service Loop Verification	Validate 50-foot service loops are installed in every 3rd MH on straight runs and at every turn.	100%	100% Visual Inspection / POC
9.8	Fusion Splicing	Any required splices utilize fusion splicing exclusively and are housed in a rack-mounted splice tray.	100%	100% Visual Inspection / POC
9.9	Empty Conduit & Innerduct	Empty conduits are utilized where available. Innerduct is installed throughout all empty conduit runs.	100%	100% Visual Inspection / POC
10.1.3	"As-Built" Drawings	Deliver accurate "as-built" drawings in CAD/PDF format within 14 days of project completion.	100%	Final Document Review / POC

12.0	Warranty Documentation	Provide warranty documentation in writing.	100%	Document / POC

Technical Exhibit 2

Deliverables Schedule

Deliverable	Frequency	# of Copies	Medium / Format	Submit To
2.1 Quality Control Plan	10 days from Contract Award	1 per employee	Electronic Copy	KO and POC
2.11 AT Level 1 Training Certificate	10 days from Contract Award	1 per employee	Paper hard copy or electronic e-mail	POC
2.23 Contract Manager Designation	10 days from Contract Award	1	Letter in hard copy or send through email	KO and POC
2.24 Contractor's ID	10 days from Contract Award or each time a new employee join the project	1 per employee	Paper hard copy or electronic e-mail	POC
2.25 Combating Trafficking in Persons	10 days from Contract Award	1 per employee	Paper hard copy or electronic e-mail	POC
7.0 – 8.0 Cable, Patch Panel, and Service Loop Installation (requires photo documentation of 50ft loops at turns and 3rd MHs)	45 days from Contract Award	NA	Photo and POINT OF CONTACT (POC) evaluation	POC
9.5 Labeling	45 days from Contract Award	NA	Photo and POINT OF CONTACT (POC) evaluation	POC
9.6 Fiber Optic Test Reports	50 days from Contract Award	1	Electronic Copy	POC
10.1.3 As-Built Drawings	55 days from Contract Award	2	Electronic (CAD/PDF) and Hard Copy detailing exact routes, service loops, and conduit/innerduct utilization.	POC

12.0 Warranty Documentation	60 days from Contract Award	1	Electronic Copy	POC