GOVERNMENT OF THE DISTRICT OF COLUMBIA

TASK ORDER/DELIVERY ORDER FOR SERVICES

OFFEROR TO COMPLETE BLOCKS 18 & 29

1.REQUISITION NUMBER	RK149170
PAGE	1 of 24
2. TASK ORDER AGREEMENT NO.	CW81655
3. Award/Effective Date	See Block 30c.
4. CONTRACT NUMBER	47QTCK18D0001
5. SOLICITATION NUMBER	----------
6. SOLICITATION ISSUE DATE	----------
7. FOR SOLICITATION INFORMATION CONTACT Email:	georgette.johnson@dc.gov
A. NAME	Georgette Johnson
B. TELEPHONE (No Collect Calls)	202-727-1104
8.OFFER DUE DATE:	----------

9. ISSUED BY

Office of Contracting and Procurement
Information Technology Group
441 4TH Street, N.W., Suite 330 South
Washington, D.C. 20001

10. THIS ACQUISITION IS

- ☐ UNRESTRICTED
- ☐ SET ASIDE %FOR
- ☐ SMALL BUSINESS
- ☐ SMALL DISADV. BUS.
- ☒ DCSS

SIC:
SIZE STANDARD:

11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED
☒ N/A

12. PAYMENT DISCOUNT TERMS
Net 30 days

☐ 13. RESERVED

14. METHOD OF SOLICITATION
☒ RFTOP ☐ RFQ ☐ IFB ☐ RFP ☐ 2-STEP

5. CONTRACTOR / OFFEROR

Science Applications International Corporation (SAIC)
12010 Sunset Hills Road
Reston, VA 20190

15A DUNS NO. 15B TAX ID NO.

16. PAYMENT WILL BE MADE BY CODE

Office of the Chief Technology Officer/ Accounts Payable
200 I Street, S.E.,
Washington, D.C. 20003
www.vendorportal.dc.gov

17. DELIVER TO

Office of the Chief Technology Officer
Attn: Tige Johnson
200 I Street, S.E., 5th Floor
Washington, D.C. 20003

18. ADMINISTERED BY

Office of the Chief Technology Officer
200 I Street, S.E., 5th Floor
Washington, D.C. 20003

18A. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER
☐

18B. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 16 UNLESS BLOCK BELOW IS CHECKED
☐ SEE ADDENDUM

19 ITEM NO.	20 SCHEDULE OF SUPPLIES/SERVICES	21 QUANTITY	22 UNIT	23 UNIT PRICE	24 AMOUNT
0001	MAN Based Telephony and Data Services-Managed Plant, HVAC, Personnel Services & Turnkey Solutions	1	Lot	----------	$900,000.00 NTE

25. ACCOUNTING AND APPROPRIATION DATA
PURCHASE ORDER NO.

26. TOAL AWARD (FOR GOVT. USE ONLY)
$900,000.00 NTE

27. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN ONE COPY TO THE ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL PAGES SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN. THIS ORDER IS ISSUED SUBJECT TO THE TERMS AND CONDITIONS OF THE DC SUPPLY SCHEDULE CONTRACT, FEDERAL SUPPLY SCHEDULE CONTRACT OR COOPERATIVE ARGEEMENT IDENTIFIED IN BLOCK 4.

28. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE INTO THIS TASK ORDER IN THE FOLLOWING PRIORITY: (1) CONTRACTOR'S Technical proposal THIS ORDER IS ISSUED SUBJECT TO THE TERMS AND CONDITIONS OF THE DC SUPPLY SCHEDULE CONTRACT, FEDERAL SUPPLY SCHEDULE CONTRACT OR COOPERATIVE ARGEEMENT IDENTIFIED IN BLOCK 4.

29A. SIGNATURE OF OFFEROR /CONTRACTOR
Ramona L Wilson Digitally signed by Ramona L Wilson Date: 2020.04.27 13:48:24 -04'00'

30A. DISTRICT OF COLUMBIA *(SIGNATURE OF CONTRACTING OFFICER)*
Chris Yi Digitally signed by Chris Yi Date: 2020.05.04 08:37:22 -04'00'

29B. NAME AND TITLE OF SIGNER (TYPE OR PRINT)
Ramona L. Wilson
Contracts Principal

29C. DATE S IGNED
April 27, 2020

30B. NAME OF CONTRACTING OFFICER (TYPE OR PRINT)
Chris Yi
Contracting Officer

30C DATE SIGNED

1. Services Required

The Office of Contracting and Procurement, on behalf, of the Office of the Chief Technology Officer (OCTO) as referenced within this document as the "District", seeks a Contractor to provide services related to the construction, installation, maintenance, repair, improvement and expansion of OCTO's extensive citywide fiber optic network. The technical scope of this contract includes the following categories:

1. Managed Plant Services: Addresses the District's need for Outside Plant (OSP) services to include OSP construction, mechanical work, maintenance, and engineering design supporting telecommunications environment infrastructure;
2. HVAC Services: Including maintenance and repair services, and design and build capabilities;
3. Personnel Services: Management personnel and staffing; and
4. Turnkey Solutions: HVAC personnel

2. Contract Number

47QTCK18D0001

3. Task Order Number

CW81655

4. Term of Contract

The period of performance shall be six months from the date of Award.

5. Contracting Officer (CO)

Contracts may be entered into and signed on behalf of the District Government only by Contracting Officers. The name, address and telephone number of the Contracting Officer for this task order is:

Chris Yi
Office of Contracting and Procurement
441 4th Street N.W., Washington, D.C. 20001
Telephone: 202.724.5069
E-mail: Chris.Yi@dc.gov

5.1 The CO is the only person authorized to approve changes in any of the requirements of this contract.

5.2 The Contractor shall not comply with any order, directive or request that changes or modifies the requirements of this contract, unless issued in writing and signed by the CO.

5.3 In the event the Contractor effects any change at the instruction or request of any person other than the CO, the change will be considered to have been made without authority and no adjustment.

6. Contract Administrator (CA)

The CA is responsible for the technical administration of the contract and advising the Contracting Officer as to the Contractor 's compliance or noncompliance with the contract. In addition, the CA is responsible for the day-to-day monitoring and supervision of the contract, of ensuring that the work conforms to the requirements of this contract and such other responsibilities and authorities as may be specified in writing by the Contracting Officer. The CA for this task order is:

Tige Johnson
Office of the Chief Technology Officer
200 I Street S.E., Washington, D.C. 20003
Telephone: 202.715. 3753
E-mail: Tige.Johnson@dc.gov

6.1 It is understood and agreed that the CA shall not have the authority to make changes in the specifications/scope of work or terms and conditions of the contract.

6.2 Contractor shall be held fully responsible for any changes not authorized in advance, in writing, by the Contracting Officer, may be denied compensation or other relief for any additional work performed that is not so authorized, and may also be required, at no additional cost to the District, to take all corrective action necessitated by reason of the unauthorized changes.

7. Invoice Payment

The District will make payments to the Contractor, upon the submission of proper invoices, at the prices stipulated in this contract, for supplies delivered and accepted or services performed and accepted, less any discounts, allowances or adjustments provided for in this contract.

7.1 The District will pay the Contractor on or before the 30th day after receiving a proper invoice from the Contractor.

8. Invoice Submittal

The Contractor shall submit proper invoices on a monthly basis or as otherwise specified in the contract.

8.1 The Contractor shall submit payment requests in electronic format through the DC Vendor Portal www.vendorportal.dc.gov by selecting the applicable purchase order number which is listed on the Contractor 's profile.

8.2 To constitute a proper invoice, the Contractor shall attach to all payment requests the invoice and all supporting documentation or information.

9. Ordering

9.1 Any supplies and services to be furnished under this contract must be ordered by issuance of delivery orders or task orders by the CO. Such orders may be issued during the term of this contract.

9.2 All delivery orders or task orders are subject to the terms and conditions of this contract. In the event of a conflict between a delivery order or task order and this contract, the contract shall control.

10. Attachments

10.1 Attachment A – Statement of Work

10.2 Attachment B - Price Schedule & Price List

ATTACHMENT A
Statement of Work

A.1 Scope

The Office of Contracting and Procurement, on behalf, of the Office of the Chief Technology Officer (OCTO) as referenced within this document as the "District", seeks a Contractor to provide services related to the construction, installation, maintenance, repair, improvement and expansion of OCTO's extensive citywide fiber optic network. The technical scope of this contract includes the following categories:

1. Managed Plant Services: Addresses the District's need for Outside Plant (OSP) services to include OSP construction, mechanical work, maintenance, and engineering design supporting telecommunications environment infrastructure.
2. HVAC Services: Including maintenance and repair services, and design and build capabilities.
3. Personnel Services: Management personnel and staffing
4. Turnkey Solutions: HVAC personnel

A.2 Applicable Documents

The following documents and standards which they reference are applicable to this procurement and are hereby incorporated.

Item No.	Document Type	Title	Date
1	**Regulations/ Codes**	DC Municipal Regulations (https://codes.iccsafe.org/content/chapter/9172/?site_type=public)	**2014**
2	**Regulations/ Codes**	National Electrical Code (https://catalog.nfpa.org/NFPA-70-National-Electrical-Code-NEC-2011-Edition-P16597.aspx)	**2011**
3	**Standards and Best Practices**	OCTO-DC-Net Standards and Practices for Communications Environments (https://dcnet.dc.gov/publication/dc-net-structured-cabling-standards)	**2019**
4	**Standards and Best Practices**	BICSI IT Systems Installation Methods Manual (ITSIMM) (https://www.bicsi.org/education-certification/education-@-bicsi-learning-academy/technical-publications/information-technology-systems-installation-methods)	**2019**
5	**Standards and Best Practices**	BICSI Telecommunications Distribution Methods Manual (TDMM) (https://www.bicsi.org/education-certification/education-@-bicsi-learning-academy/technical-publications/telecommunications-distribution-methods-manual)	**2019**

6	**Standards and Best Practices**	BICSI Outside Plant Design Reference Manual (https://www.bicsi.org/education-certification/education-@-bicsi-learning-academy/technical-publications/outside-plant-design)	**2019**
7	**Standards and Best Practices**	ANSI/BICSI Wireless Local Area Network (WLAN) Systems Design and Implementation Best Practices (https://www.bicsi.org/standards/available-standards-store/single-purchase/ansi-bicsi-008-2018)	**2018**
8	**Standards and Best Practices**	ANSI/BICSI Information and Communication Technology Systems Design and Implementation Best Practices for Educational Institutions and Facilities (https://www.bicsi.org/standards/available-standards-store/single-purchase/ansi-bicsi-001-2017)	**2017**

A.3 Definitions

A.3.1 Catastrophic Incident – Incident that causes failure of DC-Net data, voice, and/or Wireless LAN service at multiple high priority sites (key public safety and core network sites) and/or multiple fiber loops. These may result from severe weather, natural disaster, or human precipitated events.

A.3.2 Emergency Incident – Incident that causes failure of DC-Net data, voice, and/or Wireless LAN service at one or more priority sites.

A.3.3 Standard Business Hours / Business Day – Monday to Friday 8:00 AM to 5:00 PM, excluding District holidays and administrative closings.

A.3.4 Acronyms:

1. AHJ - Authority Having Jurisdiction
2. ANSI - American National Standards Institute
3. ASA - American Standards Association
4. ASTM - American Society for Testing Materials
5. BICSI - Building Industry Consulting Service International
6. CA – Contract Administrator
7. EIA - Electronic Industries Alliance
8. EMI - Electromagnetic Interference
9. EMT - Electrical Metallic Tubing
10. ER – Equipment Room
11. HVAC - Heating Ventilation and Air Conditioning
12. IEEE - Institute of Electrical and Electronic Engineers
13. LAN – Local Area Network
14. NEC - National Electrical Code
15. NEMA - National Electrical Manufacturers Association
16. NESC - National Electrical Safety Code
17. OSHA - Occupational Safety and Health Act
18. OTDR - Optical Time Domain Reflectometry
19. RCDD - Registered Communications Distribution Designer
20. TDMM - BISCI Telecommunications Distribution Methods Manual
21. TIA - Telecommunications Industry Association
22. TC – Telecommunications Closet, also called Intermediate Distribution Frame (IDF)
23. TR – Telecommunications Room, also called Main Distribution Frame (MDF)

24. UL – Underwriters Laboratory
25. UPS – Uninterrupted Power Source
26. WAO – Work Area Outlet
27. WAP – Work Area Protection or Wi-Fi/Wireless Access Point

A.4 Background

DC-Net, a network program managed by OCTO, provides wired and wireless voice, data, and video services to all government entities utilizing a secure, redundant, high capacity fiber optic platform spanning over 700 miles of aerial and underground fiber infrastructure. This state-of-the-art telecommunications network lays the foundation for all next generation government, education, and public safety access to information and communications throughout the nation's capital. As the contract nears termination, OCTO's District is seeking a vendor to support these operations for the next three to six months.

A.5 Requirements

A.5.1 Optical Fiber Cable Maintenance

A.5.1.1 The Contractor shall maintain the District's optical fiber network. This network consists of node sites within the core structure; these nodes having combinations of physical, transport and switching layer devices interconnected by optical fiber cable. The optical fiber cable is a combination of dedicated District optical fiber, leased fiber, and fiber provided by local cable and internet service providers under provisions of their District of Columbia franchise agreements. The Contractor is not obligated to enter non-District fiber splices.

A.5.1.2 The Contractor shall provide maintenance of the District's optical fiber cable plant, which consists of the following (quantities below are estimated and subject to change):

700+ sites have a point of presence (POP)

1. The network has sites added or removed over time.
    a. The District presently serves more than 30,000 employees with combinations of voice, data and video.
    b. POP sites with local service in buildings belonging to or affiliated with the DC Government clients; some are primary (have voice and/or data services for the building and surrounding facilities)
    c. Pass through sites exist with fiber in the building with splice points (but no local service in the building);
    d. Approximately 250 designated splice points.

2. And 700+ total miles of optical fiber cable, of which;
    a. Sumitomo Pureband "0" waterpeak single mode fiber is used – Max Attenuation .35db/km at 1310nm and .25db/km at 1550nm
    b. Splices require a loss of .05db or less
    c. Bidirectional testing is required at 1310nm & 1550nm
    d. DWDM is used on a portion of the system
    e. Approximately 40% is underground, and 60% aerial
    f. Armored cable is less than 1% of the total fiber

g. Predominantly all cables are dielectric.
h. Current fiber deployment by cable size – approximate
    i. 288 – 15%
    ii. 144-15%
    iii. 96-30%
    iv. 48-30%
    v. 24-5%
    vi. 12-5%
i. 70% loose tube/30% Ribbon
j. District-owned Fiber 90% and 3rd party is 10%

A.5.1.3 The Contractor shall provide all staff and equipment (e.g. Vehicles, tools, safety systems, and test equipment) for this maintenance or new splicing effort. The Contractor shall provide all staff and equipment necessary to restore and correct District network service by repairing cable at splices for aerial, building and underground optical fiber and copper cables to affect restoration (repairs) and correction, Contractor shall be capable of replacing:

1. Optical fiber cable by pulling in new underground, and lashing new aerial optical fiber cable on existing routes and alternate routes;
2. Copper cable interconnecting District facilities by pulling in new underground and installing new aerial copper cable on existing routes and alternate routes to BICSI standards.

A.5.1.4 Categories of Maintenance: There are two (2) categories of maintenance integral District maintenance operations.

A.5.1.4.1 Planned Maintenance

A.5.1.4.1.1 The Contractor shall provide dead work splicing in existing splice cases and new splice work during the 40-hour work week. This includes "Dead Work" splicing, interpreted as New Lateral prep & Cut-in at existing Splice Points, and redirecting of network fibers to accommodate turn-up of new Demarks and new or existing backbone fiber splicing. This also includes "new work" splicing, interpreted as prep and splicing of existing un-prepped Buffer tubes at existing splice points, and the prep and splicing of newly constructed splice points.

A.5.1.4.1.2 The Contractor shall provide the following three types of Planned Maintenance.

1. **Scheduled:** This type of maintenance shall be restoration or correction work where there has not been a service-affecting outage of either voice or data services.
    a. NOTE: When this restoration or corrective work extends beyond the normal workday the Contractor shall obtain prior approval from District management (the intent shall be to maintain an average of 40 hours a week per by reducing hours worked on another day).

2. **Preventive:** This type of maintenance shall be inspection and correction work to overcome optical fiber installation conditions that do not meet industry standards for installation, and that threaten to become service affecting outages

3. **Planned Maintenance Response to Service Affecting Outages:** This type of maintenance response shall be to a service affecting outage that occurs during the planned maintenance

period and requires other planned maintenance be set aside for outage restoration or corrective work. This is not covered under item below.

a. NOTE: When this restoration or corrective work extends beyond the normal workday the Contractor shall obtain prior approval from District management (the intent shall be to maintain an average of 40 hours a week per by reducing hours worked on another day).

b. Planned maintenance shall be scheduled (based upon access to fiber splice locations and client needs) between the limits of 6AM Monday to 6PM Friday (excepting DC Government holidays), for a total Not-to-exceed 8 hours in a workday, and Not-to-exceed 40 hours in a calendar work week (without District management approval).

A.5.1.4.2 Unplanned Maintenance: This type of maintenance shall be response to an outside plant failure that causes a service-affecting outage that occurs outside the planned maintenance period.

A.5.1.4.2.1 The Contractor shall be on-call for emergency maintenance situations which may occur between the hours of 6pm to 6am nightly Monday through Thursday, from 6PM Friday to 6AM Monday (weekend), and 6AM to 6PM on DC Government holidays. As described earlier and in compliance with Service Level Agreement (SLA) 1 & 2. This work is part of the 40-hour work week. The average number of times per year for this is (but is not limited to) 6. Emergency maintenance response shall be bound by District Fiber Optic Corrective Maintenance SLA, otherwise entitled SLA #1 and SLA #2. The Contractor shall provide sufficient resources to restore both underground and aerial faults in the cable network; to include faults where simultaneous restoration work shall be accomplished at two ends of a span; of which shall be a combination of:

1. Both underground; or
2. One aerial and the other underground; or
3. Both aerial; or
4. An ISP site and associated aerial or one underground splice locations

A.5.1.4.2.2 Catastrophic - The Contractor shall commit resources for multi-site and multi-loop ("catastrophic") failures in the event of severe weather, natural disaster, or human precipitated events. This SLA shall specify the additional teams/crews, vehicles, and other resources the Contractor will commit/prioritize to the District for continuous recovery and service restoral, above and beyond the service capabilities of the principal group of resources ("team") performing daily scheduled proactive and reactive maintenance assignments. The Contractor proposal shall state the terms upon which an authorized District manager may direct such response to be activated, and the associated costs for that additional SLA commitment. Failure to meet SLA response and restoration requirements shall result in monetary penalties as stated in subsequent sections of this document.

A.5.1.5 Response Period

1. The Contractor shall furnish maintenance services 24 hours per day, 7 days per week, for the period of performance of this task, including all weekends and holidays.
2. The Contractor shall schedule planned maintenance. The District will provide notification for then need for such services by aural notification to the Contractor's point of contact in advance, followed up via a Maintenance Tracking Request transmitted by electronic media.
3. Unplanned maintenance shall respond 24x7x365 to meet SLA requirements, as directed by authorized District maintenance operations staff.

A.5.1.6 Supporting Services

A.5.1.6.1 The Contractor shall provide the following support services.

1. All staff and equipment necessary to perform scheduled and emergency assessment, fault locating, fiber splicing services, and all fiber testing required.
2. All staff and equipment necessary to inspect outside plant cable routes on a preventive maintenance schedule directed by authorized District manager to identify environmental conditions detrimental operation of optical network transport.
3. Where required for restoration, additional services directly associated with optical fiber cable restoration shall be provided, to include:
    - A. Boring/pushing optical fiber right of way (e.g. Innerduct) for distances not greater than 300 feet
    - B. Hand digging
    - C. Manhole alteration and restoration
    - D. Aerial span replacement (including overlashing)
    - E. All required splicing and test equipment, and consumables when placing cable into a building a plug or foam sealant will be used at the time of placement.

A.5.1.7 Point of Presence (POP) Inspection and Clean-Up

The Contractor shall provide all staff and equipment necessary to enter and visually inspect as directed the POP sites to identify environmental conditions detrimental to operation of the POP optical fiber transport equipment. This inspection shall include correction (cleaning) of unsatisfactory equipment room. Cleaning shall not extend beyond four hours without specific approval of authorized District maintenance manager.

A.5.1.8 Special Equipment, Tools, and Techniques

A.5.1.8.1 The Contractor shall provide 2 trailers and a bucket truck dedicated to this effort, available 24/7/365, with adequate environmental, electric, and workspace.

1. The trailers and bucket truck will be used by the Contractor when location and space allow.
2. The District reserves the option to use the trailer and bucket truck as needed, which may require the Contractor to deliver, setup and provide protection, then return to pick-up the trailer.
3. The Contractor shall be prepared to remain with the trailer (pending insurance requirements) as requested by District.

C.5.1.8.2 The Contractor shall be equipped with (but not limited to) the following equipment for access to confined space entry (manhole):

1. Emergency extraction tripod
2. Explosive gas detector/oxygen analyzer
3. Submersible pump
4. Blower and duct
5. Approved guard railing

A.5.1.9 The Contractor shall conduct all required testing and certification required for access to

enclosed spaces including pump out and ventilation. This equipment shall be in addition to aerial and underground splicing equipment, vehicles, and tools previously identified.

A.5.1.10 Materials

1. Unless otherwise identified in a District Maintenance Tracking Request, the Contractor shall furnish no materials under this contract except consumables (e.g. Cable ties, fuses, nuts, bolts, screws, etc.).
2. The Contractor shall retain on-hand sufficient District approved materials to complete all maintenance requirements and shall maintain accurate inventory of these materials.
3. Upon removal of any stock item, the Contractor shall supply a list of materials used during maintenance and a request for replenishment of this stock with the completed Contractor portion of the Maintenance Tracking Request. District materials shall be unencumbered by any other service agreement, available for District always and neither committed nor made available to any other District.

A.5.1.11 Call-Out - The Contractor shall provide a local point-of-contact for first response notification of emergent call-out requirements. Failure to arrive within previously stipulated service level agreement timeframes and/or non-continuous productive work effort until full restoration or release by District OSP supervisor will result in monetary penalties equivalent to loss of OCTO/DC-Net monthly recurring revenue. Overall duration of outage or impaired/limited network availability will be additional governing factors used to evaluate Contractor performance. Contractor is recommended to possess insurance protection not to exceed $2M per event.

A.5.1.12 Staffing - The Contractor shall provide staff that meets the Labor Qualification as required to ensure the staffing that shall be able to meet the District maintenance service requirements to provide the level of service described above. At a minimum one senior splicer and one non-senior splicer will be the team, working 40 hours per week, from 8:30am to 5:30pm, M-F.

A.5.1.13 Key Personnel

1. The Contractor shall provide a Senior Splicer (Key Person) and a Non-Senior Splicer when responding to an SLA requirement. The Contractor may submit more than one Senior Splicer for instances when 24 x7 coverage is shared amongst their staff.
2. The Contractor shall request approval with 2 weeks' notice to replace staff assigned to District maintenance services; which approval District will not unreasonably withhold, in the event a qualified replacement is offered. The District has the absolute right to reject a replacement based upon resume and interview.

A.5.1.14 Failure to Perform - Failure to perform satisfactorily for 10 consecutive working days is unacceptable and may be grounds for the Contractor to provide a replacement resource capable of meeting the standard. Should the Program require a replacement resource, the Contractor shall furnish a replacement within 5 business days from the date of notification.

A.5.1.15 ISP & OSP Specifications - The District reserves the right to change any of these standards during the contract period. The District reserves the right to exclude any of these specifications on a case by case basis. If an email is not provided by the District noting the exception, the Contractor shall email a simple confirmation of the verbal direction to the District Network Implementation Manager, the District field supervisor, and the District Program Manager. The

same policy applies to any verbal direction from the District that conflicts with any other part of the contract agreement.

A.5.1.15.1 ISP Fiber Standards

A.5.1.15.1.1 The Contractor shall adhere to the following ISP Fiber Standards and shall perform as follows:

1. Fiber distribution panels shall be labeled, P-Touch ½ inch label, with loop identification, site number, panel number and destination information.
2. All patch cords shall be labeled with a circuit ID for example if a circuit originates at site 007 and the destination is site 493 than the circuit ID will be 007-493.
3. All fiber identification cards that are supplied with each fiber distribution panel shall be labeled with the circuit ID in the corresponding square.
4. All fiber distribution panels shall be secured properly inside relay racks, Hoffman boxes and cabinets with proper hardware conforming to standard EIA rack panel placing spacing.
5. All cables shall be attached to the strain relief bracket inside the fiber distribution panels.
6. All ISP cables attached to fiber distribution panels shall be tagged with loop, site number, destination, size and type of cable.
7. All OSP cables shall be tagged at the fiber distribution panel and point of entry with loop, site number, destination, size and type of cable.
8. All cables and maintenance loops shall be secured properly to wall, ladder rack, inside Hoffman box or cabinets.
9. All maintenance loops shall be tagged with a District warning tag.
10. All splice trays with 250um fiber shall have a minimum of 2 wraps not to exceed 3 wraps. Fiber shall be cleaned properly with D-Gel solvent and alcohol.
11. All splice trays with 900um fiber shall have a minimum of 1 wrap not to exceed 2 wraps.
12. All splice trays shall be numbered in numerical sequence and the lids taped when splicing is completed.
13. All splice trays shall be dressed neatly, labeled with correct sheath count and splicing information.
14. Heat sleeves shall be 60mm.
15. Spiral wrap shall be utilized when using SPS9 splicing shelf or any other splicing shelf.
16. Sheath butts shall be taped and spiral wrap shall be utilized to transition from sheath butt into fiber distribution panel.
17. Contractor/personnel shall make sure not to exceed the bend radius of OSP cables or cables within fiber distribution panels and splice enclosures.
18. Contractor shall provide DISTRICT with proper as built documentation to include the following; post test results bidirectional OTDR 1310nm/1550nm, bidirectional power meter 1310nm/1550 nm, pictures of installation/splicing work, footage markings at fiber distribution panels and splice enclosures. Contractors work will not be accepted until Contractor completes as-built documentation and inspections.

A.5.1.15.2 OSP Fiber Standards

A.5.1.15.2.1 The Contractor shall adhere to the following OSP Fiber Standards and shall perform as follows:

1. All District cables/inner duct in manholes, pull boxes, vaults or any other confined space shall be tagged at the point of entry and the point of exit.

2. All conduits and inner ducts being utilized by District shall be sealed with an appropriate sealing compound.
3. Innerduct at the point of entry shall not protrude more than 4 inches unless, a job order requires inner duct to be placed to the termination point.
4. All District cables/inner duct, slack coils and splice enclosures in confined spaces shall be properly secured.
5. Aerial slack coils shall be placed in snowshoes lashed or secured with Deltec buckle straps to strand. If lashed, lashing wire clamps will be utilized to secure lashing wire to strand.
6. All splice enclosures and patch panels shall be installed and prepped in accordance with manufactures recommendations.
7. All splice enclosures cables shall be tagged with loop, splice point ID, destination, size and type of cable.
8. If armored cable is used, cables shall be bonded inside splice enclosures and splice enclosures will be grounded in manhole or on strand.
9. Aerial splices shall be secured to strand with appropriate lashing supports or brackets.
10. OSP Contractor shall provide District with as built documentation to include the following; manhole logs, red lines if route changes or if duct selection changes, pole ID and any other information deemed necessary by Barry Silverman.
11. All standards are subject to change. Contractors will be advised if changes occur.

A.5.1.16 Service Level Agreement (SLA) # 1 - Corrective OSP Maintenance Response: The Contractor shall adhere to the following SLA requirements for Fiber Optic Cable Corrective Maintenance guaranteed time-to-respond and recovery effort levels.

1. **Response Time**
   a. Contractor shall have qualified technician(s) at the site of a fiber optic cable failure within two (2) hours of notification of failure to the Contractor's Point of Contact.
   b. Contractor shall have a qualified technician continually at the site of a fiber optic cable failure until temporary or permanent restoration of service is completed and verified by the District.

A.5.1.17 Service Level Agreement (SLA) # 2 – Catastrophic OSP Maintenance Response: The Contractor shall adhere to the following SLA requirements for unplanned maintenance restoration of "catastrophic" failures of the District's optical fiber plant.

A.5.1.17.1 Specific Requirements

1. Contract Maintenance Service for 365 x 24 dedicated unplanned OSP maintenance will be provided by Contractor crew identified as Crew 1.
2. Supplemental Crews are comprised as follows:
   a. Each Supplemental Crew shall consist of one (1) qualified optical fiber splicing technician plus assistant / helper with aerial equipped, enclosed splicing vehicle; HDCM fusion splicer; OTDR; global positioning system (GPS); and all ancillary equipment to locate damage and repair fiber optic cable.
   b. The Contractor shall provide 2 Crews under this SLA: Crew 2 and Crew 3
   c. The Contractor shall make "best efforts" to field additional aerial equipped splicing crews in the event Crews 2 and 3 are insufficient for the magnitude of the particular task, as judged by the District OSP Maintenance POC; but for purposes of this SLA, the need for additional aerial equipped splicing crews beyond Crews 2 and 3 cannot be foreseen and/or guaranteed.
3. Contractor standard operating procedures for crew operations are described.

4. Crew(s) shall mobilize and be in "standby" status at a location within ten (10) road miles of Washington, DC.
5. Upon notification of cable damage location(s) by the District OSP Maintenance POC, the assigned crew(s) shall meet District Maintenance Operations POC on-site within two (2) hours.
6. Crew(s) shall maintain a continued presence on-site until repairs are completed or DC-Net Maintenance Operations POC releases the crew(s), and provide hourly updates of the restoration progress.
7. Crew(s) shall immediately report completion of the assigned repair, and their availability for additional assignment to the District OSP Maintenance POC.
8. Response intervals identified hereafter shall be required regardless of the day of week, or holiday, that notification is provided by the District OSP Maintenance POC.

A.5.1.17.2 Response Time for Unforeseen Disaster with No Prior Notice - Contractor response shall be measured against the following criteria. Within eight (8) hours of notification of required escalation, Contractor will notify District Maintenance Operations POC of the exact location where Supplementary Crew 2 (and Crew 3, as required) are staged and in "standby" status, awaiting direction to a cable damage location.

A.5.1.17.3 Response Time for Forecast (e.g. – adverse weather) condition with notice
Within twenty-four (24) hours of notification by the District Maintenance Operations POC of required escalation, and the specific date and hour of the day for Supplemental Crew(s) to report, Contractor shall notify the District Maintenance Operations POC of the exact location and date and time where Supplementary Crew 2 (and Crew 3, as requested by the District) will be staged and in "standby" status, awaiting direction to a cable damage location.

A.5.1.17.4 How Measurement is Computed

1. Response to the trouble location shall be calculated as the interval between the time Contractor was notified of cable damage location and arrival of the assigned crew to meet the District Maintenance Operations POC on site.
2. Failures to meet this requirement shall be noted in the event this interval exceeds two (2) hours.

A.5.2 Heating, Ventilation and Air Conditioning (HVAC) Services

A.5.2.1 The Contractor shall provide maintenance, repairs, emergency service and new installations of HVAC equipment. The HVAC units service the rooms containing the electronics for a fiber optic and copper IT network. The contract requires service to legacy equipment and new installations. The Contractor shall provide all labor and expertise required to provide ongoing preventive maintenance and repair service to each HVAC system in the network.

A.5.2.2 The Contractor shall provide a fully certified HVAC team to perform both preventive and corrective functions at pre-designated sites to ensure complete, continuous operability of all HVAC equipment. This team shall be available for normally scheduled system testing or emergent requirements.

A.5.2.3 Because this is a 24/7/365 operation, the workload is constant, and the HVAC units are operating year-round, the units are of different longevity and reliability and will not have the same lifespan. The Contractor shall make repairs in addition to the Preventive Maintenance Program.

A.5.2.4 The Contractor shall perform a Major Preventive Maintenance Service immediately upon award. The HVACs at Agency will require Regular Preventive Maintenance Visit immediately upon award. These installations are typical of the sites to be encountered during the duration of the maintenance contract.

A.5.2.5 The Contractor shall add approximately 8 HVAC units to the maintenance schedule.

A.5.2.6 Types of Nodes

A.5.2.6.1 Primary Nodes

A.5.2.6.1.1 Two sites (Site ID 001 and Site ID 003) - Preventive Maintenance (PM) Inspection requires 3 (three) visits in 6 months: 1 (one) major inspection and 2 (two) minor inspections, equally spaced.

Site #	Address	Occupants
1	441 4th Street NW	OCTO, One Judiciary Square (OJS)
3	2000 14th Street NW	DDOT, Dept. of Public Works, Reeves Center

A.5.2.6.2 Secondary Nodes

A.5.2.6.2.1 Four sites (Site ID's - 8, 9, 30, 354) – Quarterly PM Inspection: (1) major inspection and (1) minor inspection, equally spaced.

Site #	Address	Occupants
406	655 15the Street NW	OCTO DC-Net HQ
8	717 14th Street NW	DHS, Inspector General, Contract Appeals Board, Office of Banking and Financials
9	899 N Capitol St NE	Dept. of Health, Office of Maternal and Child Health, Office of Emergency Health
18	1350 Penn Ave	City Hall

A.5.2.7 Levels of Service

A.5.2.7.1 Major Preventive Maintenance (PM) HVAC Inspection

A.5.2.7.1.1 The Contractor shall perform the following duties and provide for the following requirements:

1. Provide notification of a site visit 48 hours in advance to the District Representative. If the building representative requests advance notice do so as directed. If there are special access requirements through the client, confirm access is available before the visit.
2. Visual inspection of the room noting anything obvious that District should be made aware of: e.g., water on floor, vandalism, hazards of any kind, doors open, odd odors, trash, etc.
3. Note outdoor ambient temperature and room temperature.
4. Perform a thorough and comprehensive inspection of the HVAC equipment and controls systems to include: Checking for proper voltage, proper amperage, refrigerant pressures, tighten all connections, all required lubrication as applicable, obtain delta across the

evaporator coil, checking compressor and all components as applicable, check evaporator coil and condenser coils, check blower, check superheat, check contactors, check all controls, check and calibrate thermostat as needed, check and clear condensate pump / drain, secure all caps / covers / doors. Make all necessary adjustments to maintain equipment within operating specifications.

5. Replace all filters. Replace belts if needed. Contractor supplied.
6. Thoroughly clean the evaporator coil, evaporator coil drain pan, and the condenser coil. Contractor at his expense to supply whatever coil cleaners, hoses, water, as applicable. Complete and submit a written Preventive Maintenance Worksheet.
7. Ensure that the unit functions properly, and is properly adjusted.
8. Perform an Inspection of the HVAC unit and supply a written Preventive Maintenance Worksheet and Operating Report within three days of completion. Delivery is to be a scanned document by email. A fax or hard copy may be requested.
9. Promptly report any emergency by phone to the District. If there is no response to the phone calls leave a voice message and follow-up immediately by a distribution email with any emergency maintenance issues found during the inspection.
10. All parts to be equal or better than factory OEM parts.
11. No additional repairs are to be done without prior authorization unless it is an emergency.
12. The Contractor shall provide a schedule for maintaining the existing sites with updates as new sites are brought online. The Contractor shall provide the updated schedule in an excel spreadsheet upon completion of each maintenance to the District, indicating the sites covered and dates of the scheduled visits. The Contractor be given access and contact information for sites where maintenance will be performed.

A.5.2.7.2 Minor Preventive Maintenance (PM) HVAC Inspection

A.5.2.7.2.1 The Contractor shall provide the following:

1. Visual inspection of the room noting anything obvious that District should be made aware of: e.g., water on floor, vandalism, hazards of any kind, doors open, odd odors, trash, etc.
2. Note outdoor ambient temperature and room temperature – also note delta between evaporator air inlet and outlet.
3. Replace all filters. Replace belts if needed. Vendor supplied.
4. Ensure that the unit functions properly and is properly adjusted.
5. Promptly report any emergency by phone to the District. If there is no response to the phone calls leave a voice message and follow-up immediately by a distribution email with any emergency maintenance issues found during the inspection.
6. Use all parts to be equal or better than factory OEM parts.
7. Perform an Inspection of the HVAC unit and supply a written Preventive Maintenance Worksheet and Operating Report within three days of completion. Delivery is to be a scanned document by email. A fax or hard copy may be requested.
8. Obtain advance authorization prior to making any repairs that are over and above the scheduled Preventive Maintenance Service, except as in the event of an emergency, where the Contractor can make an emergency repair, so long as the problem is reported and documented within 12 hours of the emergency occurrence.
9. Provide documentation of each visit on the Preventive Maintenance Worksheet and Operating Report, as applicable, to ensure that the proper inspection was completed. Supply a written Preventive Maintenance Worksheet and Operating Report within three days of completion. Delivery is to be a scanned document by email. A fax or hard copy may be requested.

10. Guarantee and perform all work in a satisfactory, timely, and workmanlike manner.
11. Have employee(s) that possess a minimum 10 years of commercial experience in the Installation and Servicing of HVAC Equipment similar/equivalent to the equipment listed herein.
12. Maintain full utilization of CFC certified in-house technicians with proof of said certification required on demand.
13. Maintain an office footprint within 40-mile radius of Washington, DC.
14. Maximum time frame for on-site availability following emergency call-out not to exceed 4 hours.
15. Provide 24/7/365 availability of "Live" answering service for emergent needs.
16. Regular hours: 7:00 AM to 6:00 PM

A.5.2.8 Existing Site Listing

A.5.2.8.1 Primary Nodes

A.5.2.8.1.1 Two sites (Site ID 001 and Site ID 003) - Preventive Maintenance (PM) Inspection requires 3 (three) visits in 6 months: 1 (one) major inspection and 2 (two) minor inspections, equally spaced.

Site #	Address	Occupants
1	441 4th Street NW	OCTO, One Judiciary Square (OJS)
3	2000 14th Street NW	DDOT, Dept. of Public Works, Reeves Center

A.5.2.8.2 Secondary Nodes

A.5.2.8.2.1 Four sites (Site ID's - 8, 9, 354) – Quarterly PM Inspection: (1) major inspection and (1) minor inspection, equally spaced.

Site #	Address	Occupants
406	655 15the Street NW	OCTO DC-Net HQ
8	717 14th Street NW	DHS, Inspector General, Contract Appeals Board, Office of Banking and Financials
9	899 N Capitol St NE	Dept. of Health, Office of Maternal and Child Health, Office of Emergency Health
18	1350 Penn Ave	City Hall

A.5.3 Personnel Services and Job Descriptions

A.5.3.1 Services

A.5.3.1.1 The Contractor shall provide managed services and subject matter expert personnel.

A.5.3.1.2 Contractor shall provide management supervision for managed services personnel. The Contractor shall provide a project management presence at a location to be specified by the District during the following core hours of operation and to extend through the lifetime of the managed services contract: 8:30 AM thru 5:30 PM, Monday thru Friday, excluding holidays.

A.5.3.1.3 The Contractor's Project Manager shall provide daily/weekly time sheet(s) to the CA by 3 PM Friday for each temporary support staff employed stating the total number of hours worked. The CA will assign work to the designated Project Manager for each assigned Aggregate Group.

A.5.3.1.4 The Contractor shall ensure that the managed services staff shall maintain professional attire for a business environment.

A.4.3.1.5 Upon request of the CA and as necessary, the Contractor shall submit resumes of qualified employees ("personnel"). Within five (5) days of the CA's request for resumes, the Contractor shall submit to the COTR the resumes of qualified employees. After receipt of resumes, the District may interview each candidate to verify if the candidate is qualified to successfully perform the SOW requirements. Within fifteen (15) working days after the District's acceptance of an employee, the Contractor shall make that individual available for work in keeping with District's schedule.

A.5.3.1.6 Managed services staff shall not supervise a District government employee. The District will not administratively supervise the managed services staff. If the District is not satisfied with certain staff members, the Contractor, at the District's request, shall immediately remove the individual and replace with a fully qualified candidate per the District's statement of work expectations.

A.5.3.2 Labor Category Descriptions

A.5.3.2.1 The Contractor shall maintain the following labor categories in order to successfully perform the SOW requirements.

A.5.3.2.2 Introduction

A.5.3.2.2.1 All positions are in the OCTO/DC-Net division. The Contractor shall provide a variety of duties supporting ICT needs of assigned district government agencies. The Contractor shall perform complex assignments in the areas of design and planning, deployment, operations and technical support for communication systems that support data, voice, and video networks. The Contractor shall conduct thorough and detailed system studies of existing functions and methods of operations and develops IT communication systems to refine, elaborate upon, and obtain further benefit for IT support. From these studies, the incumbent analyzes systems and creates detailed technical documents to define logical, workable systems. From these analyses, detailed plans are developed to build, implement, and maintain IT telecommunications systems.

A.5.3.2.2.2

Item No.	Labor Category	Alliant ID	Description
LAB001	Senior Computer and Information Systems Manager	123	Computer and Information Systems Manager - Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.
LAB002	SME - Computer and Information Systems Manager	124	Computer and Information Systems Manager - Plan, direct, or coordinate activities in such fields as

			electronic data processing, information systems, systems analysis, and computer programming.
LAB003	SME - Computer and Information Systems Manager	124	Computer and Information Systems Manager - Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.
LAB004	SME - Computer Systems Engineer/Architect	194	Computer Systems Engineer/Architect - Design and develop solutions to complex applications problems, system administration issues, or network concerns. Perform systems management and integration functions.
LAB005	SME - Information Technology Project Manager	284	Information Technology Project Manager - Plan, initiate, and manage information technology (IT) projects. Lead and guide the work of technical staff. Serve as liaison between business and technical aspects of projects. Plan project stages and assess business implications for each stage. Monitor progress to assure deadlines, standards, and cost targets are met.
LAB007	SME - Computer Network Architect	144	Computer Network Architect - Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning. May also design network and computer security measures. May research and recommend network and data communications hardware and software.
LAB008	Senior Database Administrator	223	Database Administrator - Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases.
LAB009	Journeyman Information Technology Project Manager	282	Information Technology Project Manager - Plan, initiate, and manage information technology (IT) projects. Lead and guide the work of technical staff. Serve as liaison between business and technical aspects of projects. Plan project stages and assess business implications for each stage. Monitor progress to assure deadlines, standards, and cost targets are met.
LAB010	SME - Information Technology Project Manager	284	Information Technology Project Manager - Plan, initiate, and manage information technology (IT) projects. Lead and guide the work of technical staff. Serve as liaison between business and technical aspects of projects. Plan project stages and assess business implications for each stage. Monitor progress to assure deadlines, standards, and cost targets are met.
LAB011	Journeyman Management Analyst	292	Management Analyst - Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Includes program analysts and management consultants.

A.5.4 Turnkey Solution Requirements

A.5.4.1 HVAC Repair Services - Contractor shall provide time and material transactions in accordance with established labor rates for emergency HVAC repairs while performing monthly preventative maintenance calls (C.5.2), in addition, to be available for on/off hours emergency calls. Contractor shall provide work order tickets with each service call, including advanced communications and approvals for all issues found during the preventative maintenance requirements.

A.5.4.1.1 HVAC Repair Labor Categories

1. HVAC Mechanic Journeyman
2. HVAC Mechanic Journeyman Off-Hours
3. HVAC Mechanic Journeyman Incremental (already deployed)
4. HVAC Mechanic Journeyman Off-Hours Incremental (already deployed)

ATTACHMENT B
Price Schedule & Price List

B.1 The Office of Contracting and Procurement, on behalf, of the Office of the Chief Technology Officer (OCTO) as referenced within this document as the "District", seeks a contractor to provide services related to the construction, installation, maintenance, repair, improvement and expansion of OCTO's extensive citywide fiber optic network.

B.2 The District contemplates award of an Indefinite Delivery-Indefinite Quantity (IDIQ) Contract**.**

B.3 Indefinite Delivery-Indefinite Quantity (IDIQ) Contract
This is an IDIQ contract for the supplies or services specified, and effective for the period stated.

1. Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering Clause, section 9. The Contractor shall furnish to the District, when and if ordered, the supplies or services specified in the Schedule up to the not-to-exceed amount of $900,000.00. Orders shall not be limited to the supplies or services specified in section B.5.

2. There is no limit on the number of orders that may be issued. The District may issue orders requiring delivery to multiple destinations or performance at multiple locations.

3. Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and District's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided that the Contractor shall not be required to make any deliveries under this contract after expiration

B.4 Price Schedule

Contract Line Item No.	**Item Description**	**Not-to-Exceed Amount**
0001	MAN Based Telephony and Data Services-Managed Plant, HVAC, Personnel Services & Turnkey Solutions	$900,000.00

B.5 Price List

B.5.1 Optical Fiber Cable Maintenance

Item Number	Description	Quantity	Unit	Total Price
001	OFC001 Maintenance Cost	6	Month	$192,267.13

Item Number	Description	Price
002	OFC050 Supplemental Crew/ 8 hour day, 40 hours/week	$1,488.57
003	OFC002 2 cable splicer crew, equipment, tools, 4 hours OT	$1,109.24

004	OFC003 2 cable splicer crew, equipment, tools, 8 hours OT	$2,218.46

B.5.2 Heating, Ventilation and Air Conditioning (HVAC) Services

B.5.2.1 Primary Nodes:

Item Number	Site	Occupants	HVAC Unit	Monthly	Annual Maintenance Price
001	1	OCTO, One Judiciary Square (OJS)	Airflow		$2,568.36
002	3	DDOT, Dept. of Public Works, Reeves Center	Carrier		$4,608.36

B.5.2.2 Secondary Nodes:

Item Number	Site	Occupants	HVAC Unit	Monthly	Annual Maintenance Price
003	406	655 15the Street NW	OCTO DC-Net HQ	$238.06	$1,428.36
004	8	717 14th Street NW	DHS, Inspector General, Contract Appeals Board, Office of Banking and Financials	$238.06	$1,428.36
005	9	899 N Capitol St NE	Dept. of Health, Office of Maternal and Child Health, Office of Emergency Health	$238.06	$1,428.36
006	18	1350 Penn Ave	City Hall	$1,170.89	$7,025.37

B.5.3 Turnkey Solution

Item Number	Description	Labor Category	Alliant ID #	Description	Estimated Quantity	Unit	Unit Price	Total Price
001	LAB001	Senior Computer and Information Systems Manager	123	Computer and Information Systems Manager - Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.	480	Hour	$121.49	$58,315.20
002	LAB002	SME - Computer and Information Systems Manager	124	Computer and Information Systems Manager - Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.	480	Hour	$200.08	$96,038.40
003	LAB003	SME - Computer and Information Systems Manager	124	Computer and Information Systems Manager - Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.	480	Hour	$200.08	$96,038.40
004	LAB004	SME - Computer Systems Engineer/Architect	194	Computer Systems Engineer/Architect - Design and develop solutions to complex applications problems, system	480	Hour	$166.93	$80,126.40

				administration issues, or network concerns. Perform systems management and integration functions.				
005	LAB005	SME - Information Technology Project Manager	284	Information Technology Project Manager - Plan, initiate, and manage information technology (IT) projects. Lead and guide the work of technical staff. Serve as liaison between business and technical aspects of projects. Plan project stages and assess business implications for each stage. Monitor progress to assure deadlines, standards, and cost targets are met.	480	Hour	$133.28	$63,974.40
006	LAB007	SME - Computer Network Architect	144	Computer Network Architect - Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning. May also design network and computer security measures. May research and recommend network and data communications hardware and software.	480	Hour	$156.19	$74,971.20
007	LAB008	Senior Database Administrator	223	Database Administrator - Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases.	480	Hour	$99.97	$47,985.60
008	LAB009	Journeyman Information Technology Project Manager	282	Information Technology Project Manager - Plan, initiate, and manage information technology (IT) projects. Lead and guide the work of technical staff. Serve as liaison between business and technical aspects of projects. Plan project stages and assess business implications for each stage. Monitor progress to assure deadlines, standards, and cost targets are met.	480	Hour	$80.80	$38,784.00
009	LAB010	SME - Information Technology Project Manager	284	Information Technology Project Manager - Plan, initiate, and manage information technology (IT) projects. Lead and guide the work of technical staff. Serve as liaison between business and technical aspects of projects. Plan project stages and assess business implications for each stage. Monitor progress to assure deadlines, standards, and cost targets are met.	480	Hour	$133.42	$64,041.60

010	LAB011	Journeyman Management Analyst	292	Management Analyst - Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Includes program analysts and management consultants.	480	Hour	$75.66	$36,316.80

B.5.4 Turnkey Solution

Item Number	Description	Estimated Quantity	Unit	Unit Price	Total Price
001	HVAC Mechanic Journeyman	15	Hours	$147.36	$2,210.40
002	HVAC Mechanic Journeyman OT	15	Hours	$221.04	$3,315.60
003	HVAC Mechanic Jrnymn OT Incr	15	Hours	$132.62	$1,989.30
004	HVAC Mechanic Jrnymn OT Incr	15	Hours	$198.38	$2,975.70
005	Electrician/Foreman/QA/QC	60	Hours	$74.40	$4,464.00
006	Lineman	60	Hours	$59.82	$3,589.20
007	Laborer	60	Hours	$39.27	$2,356.20