



*Embassy of the United States of America*

*GSO/Procurement Office*

Antiguo Cuscatlán, March 10, 2016.

Dear Prospective Quoter:

SUBJECT: Request for Quotations Number S-ES60016Q0040

The Embassy of the United States of America invites you to submit a quotation to provide *Replacement of all existing data lines servicing our **OpenNet network** and **Dedicated Internet Network (DIN)** including data patch panels, racks, transitional devices and battery backup systems servicing the U.S. Embassy in El Salvador.* The Request for quotations (RFQ) consists of the following sections:

Standard Form SF-1442

Basic Information, statement of work or specifications and technical qualifications

Late quotation rules and evaluation method

Attachments 1, 2, 3 and 4

The Embassy plans to award a Purchase Order. You are encouraged to make your quotation competitive. You are also cautioned against any collusion with other potential offerors with regard to price quotations to be submitted. The RFQ does not commit the American Embassy to make any award. The Embassy may cancel this RFQ or any part of it. A site visit has been scheduled for Friday March 18, 2016 at 9:00 am at American Embassy, San Salvador. If you plan to attend please send personal and vehicle information to [RengifoJM@state.gov](mailto:RengifoJM@state.gov) no later than Tuesday March 15, at 5:00 pm.

Direct any questions regarding this request for quotations to Janina de Rengifo via e-mail ([RengifoJM@state.gov](mailto:RengifoJM@state.gov)).

Sincerely,

A handwritten signature in blue ink, appearing to read "Scott McDow", with a long horizontal flourish extending to the right.

**Scott McDow**  
Contracting Officer

Enclosure:

As Stated.

## TABLE OF CONTENTS

SF-18 OR SF-1442 COVER SHEET

A. PRICE

B. SCOPE OF WORK

C. PACKAGING AND MARKING

D. INSPECTION AND ACCEPTANCE

E. DELIVERIES OR PERFORMANCE

F. ADMINISTRATIVE DATA

G. SPECIAL REQUIREMENTS

H. CLAUSES

I. LIST OF ATTACHMENTS

J. QUOTATION INFORMATION

K. EVALUATION CRITERIA

L. REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF  
OFFERORS OR QUOTERS

ATTACHMENTS:

Attachment 1: Sample Letter of Bank Guaranty

Attachment 2: Breakdown of Price by Divisions of Specifications

Attachment 3: Scope of Work

Attachment 4: Government Specifications

<b>REQUEST FOR QUOTATIONS</b> <i>(THIS IS NOT AN ORDER)</i>		THIS RFQ <input type="checkbox"/> IS <input checked="" type="checkbox"/> IS NOT A SMALL BUSINESS- SMALL PURCHASE SET-ASIDE (52.219-4)		PAGE 1	OF 1	PAGES 10
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1. REQUEST NO <b>S-ES60016Q0040</b>	2. DATE ISSUED <b>03/10/2016</b>	3. REQUISITION-PURCHASE REQUEST NO	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING
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5A. ISSUED BY <b>General Services Office, American Embassy San Salvador</b>	6. DELIVER BY (Date)
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5B. FOR INFORMATION CALL (Name and telephone no.) (No collect calls)		7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION    OTHER (See Schedule)
NAME <b>Janina M. de Rengifo <u>rengifojm@state.gov</u></b>	TELEPHONE NUMBER ARFA CODE    NUMBER <b>2501-2462</b>	

8. TO:		9. DESTINATION
a. NAME	b. COMPANY	a. NAME OF CONSIGNEE <b>American Embassy San Salvador</b>
c. STREET ADDRESS		b. STREET ADDRESS <b>Final Blvd. Santa Elena, Antiguo Cuscatlan</b>
d. CITY	e. STATE	f. ZIP CODE
		c. CITY <b>La Libertad</b>
		d. STATE    e. ZIP CODE

10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5A ON OR BEFORE CLOSE OF BUSINESS (Date) <b>Monday, March 28, 2015</b>	<b>IMPORTANT:</b> This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5A. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or services. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotations must be completed by the quoter.
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11. SCHEDULE (Include applicable Federal, State and local taxes)

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QTY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
1	IMO/IPO- Infrastructure Remediation <b>OpenNet Network</b>	1	ea		
2	IMO/IPO- Infrastructure Remediation <b>Dedicated Internet Network (DIN)</b>	1	ea		
<b>** AS PER ATTACHMENT 3 **</b>					

12. DISCOUNT FOR PROMPT PAYMENT	a. 10 CALENDAR DAYS %	b. 20 CALENDAR DAYS %	c. 30 CALENDAR DAYS %	d. CALENDAR DAYS NUMBER    %
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NOTE: Additional provisions and representations  are  are not attached.

13. NAME AND ADDRESS OF QUOTER			14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION		15. DATE OF QUOTATION	
a. NAME OF QUOTER			16. SIGNER		b. TELEPHONE	
b. STREET ADDRESS						
c. COUNTY			a. NAME (Type or print)		AREA CODE NUMBER	
d. CITY	e. STATE	f. ZIP CODE	c. TITLE (Type or print)			

## REQUEST FOR QUOTATIONS - CONSTRUCTION

### A. PRICE

The Contractor shall complete all work, including furnishing all labor, material, equipment and services required under this purchase order for the following firm fixed price and within the time specified. This price shall include all labor, materials, all insurances, overhead and profit.

<b>Total Price (including all labor, materials, overhead and profit)</b>	
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#### A.1 VALUE ADDED TAX

VALUE ADDED TAX (VAT). The Government will not reimburse the Contractor for VAT under this contract. The Contractor shall not include a line for VAT on Invoices as the U.S. Embassy has a tax exemption certificate with the host government.

### B. SCOPE OF WORK

The character and scope of the work are set forth in the contract. The Contractor shall furnish and install all materials required by this contract.

In case of differences between small and large-scale drawings, the latter will govern. Where a portion of the work is drawn in detail and the remainder of the work is indicated in outline, the parts drawn in detail shall apply also to all other portions of the work.

### C. PACKAGING AND MARKING

Mark materials delivered to the site as follows:

N/A

### D. INSPECTION AND ACCEPTANCE

The COR, or his/her authorized representatives, will inspect from time to time the services being performed and the supplies furnished to determine whether work is being performed in a satisfactory manner, and that all supplies are of acceptable quality and standards.

The Contractor shall be responsible for any countermeasures or corrective action, within the scope of this contract, which may be required by the Contracting Officer as a result of such inspection.

#### D.1 SUBSTANTIAL COMPLETION

(a) "*Substantial Completion*" means the stage in the progress of the work as determined and certified by the Contracting Officer in writing to the Contractor, on which the work (or a portion designated by the Government) is sufficiently complete and satisfactory. Substantial completion means that the property may be occupied or used for the purpose for which it is intended, and only minor items such as touch-up, adjustments, and minor replacements or installations remain to be completed or corrected which:

- (1) do not interfere with the intended occupancy or utilization of the work, and
- (2) can be completed or corrected within the time period required for final completion.

(b) The "date of substantial completion" means the date determined by the Contracting Officer or authorized Government representative as of which substantial completion of the work has been achieved.

Use and Possession upon Substantial Completion - The Government shall have the right to take possession of and use the work upon substantial completion. Upon notice by the Contractor that the work is substantially complete (a Request for Substantial Completion) and an inspection by the Contracting Officer or an authorized Government representative (including any required tests), the Contracting Officer shall furnish the Contractor a Certificate of Substantial Completion. The certificate will be accompanied by a Schedule of Defects listing items of work remaining to be performed, completed or corrected before final completion and acceptance. Failure of the Contracting Officer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The Government's possession or use upon substantial completion shall not be deemed an acceptance of any work under the contract.

## D.2 FINAL COMPLETION AND ACCEPTANCE

D.2.1 "Final completion and acceptance" means the stage in the progress of the work as determined by the Contracting Officer and confirmed in writing to the Contractor, at which all work required under the contract has been completed in a satisfactory manner, subject to the discovery of defects after final completion, and except for items specifically excluded in the notice of final acceptance.

D.2.2 The "*date of final completion and acceptance*" means the date determined by the Contracting Officer when final completion of the work has been achieved, as indicated by written notice to the Contractor.

D.2.3 FINAL INSPECTION AND TESTS. The Contractor shall give the Contracting Officer at least five (5) days advance written notice of the date when the work will be fully completed and ready for final inspection and tests. Final inspection and tests will be started not later than the date specified in the notice unless the Contracting Officer determines that the work is not ready for final inspection and so informs the Contractor.

D.2.4 FINAL ACCEPTANCE. If the Contracting Officer is satisfied that the work under the contract is complete (with the exception of continuing obligations), the Contracting Officer shall issue to the Contractor a notice of final acceptance and make final payment upon:

- Satisfactory completion of all required tests,
- A final inspection that all items by the Contracting Officer listed in the Schedule of Defects have been completed or corrected and that the work is finally complete (subject to the discovery of defects after final completion), and
- Submittal by the Contractor of all documents and other items required upon completion of the work, including a final request for payment (Request for Final Acceptance).

## E. DELIVERIES OR PERFORMANCE

### 52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to:

- (a) commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed,
- (b) prosecute the work diligently, and,
- (c) complete the entire work ready for use not later than 60 business days.

### 52.211-12 LIQUIDATED DAMAGES - CONSTRUCTION (SEPT 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, or any extension, the Contractor shall pay liquidated damages to the Government in the amount of **\$1,000** for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Default clause.

#### CONTRACTOR'S SUBMISSION OF CONSTRUCTION SCHEDULES

(a) The time for submission of the schedules referenced in FAR 52.236-15, "Schedules for Construction Contracts", paragraph (a), is hereby modified to reflect the due date for submission as "10 calendar days after receipt of an executed contract".

(b) These schedules shall include the time by which shop drawings, product data, samples and other submittals required by the contract will be submitted for approval.

(c) The Contractor shall revise such schedules (1) to account for the actual progress of the work, (2) to reflect approved adjustments in the performance schedule, and (3) as required by the Contracting Officer to achieve coordination with work by the Government and any separate contractors used by the Government. The Contractor shall submit a schedule, which sequences work so as to minimize disruption at the job site.

(d) All deliverables shall be in the English language and any system of dimensions (English or metric) shown shall be consistent with that used in the contract. No extension of time shall be allowed due to delay by the Government in approving such deliverables if the Contractor has failed to act promptly and responsibly in submitting its deliverables. The Contractor shall identify each deliverable as required by the contract.

(e) Acceptance of Schedule: When the Government has accepted any time schedule; it shall be binding upon the Contractor. The completion date is fixed and may be extended only by a written contract modification signed by the Contracting Officer. Acceptance or approval of any schedule or revision thereof by the Government shall not:

- (1) Extend the completion date or obligate the Government to do so,
- (2) Constitute acceptance or approval of any delay, or
- (3) Excuse the Contractor from or relieve the Contractor of its obligation to maintain the progress of the work and achieve final completion by the established completion date.

#### NOTICE OF DELAY

If the Contractor receives a notice of any change in the work, or if any other conditions arise which are likely to cause or are actually causing delays which the Contractor believes may result in late completion of the project, the Contractor shall notify the Contracting Officer. The Contractor's notice shall state the effect, if any, of such change or other conditions upon the approved schedule, and shall state in what respects, if any, the relevant schedule or the completion date should be revised. The Contractor shall give such notice promptly, not more than ten (10) days after the first event giving rise to the delay or prospective delay. Only the Contracting Officer may make revisions to the approved time schedule.

#### NOTICE TO PROCEED

(a) After receiving and accepting any bonds or evidence of insurance, the Contracting Officer will provide the Contractor a Notice to Proceed. The Contractor must then prosecute the work, commencing and completing performance not later than the time period established in the contract.

(b) It is possible that the Contracting Officer may elect to issue the Notice to Proceed before receipt and acceptance of any bonds or evidence of insurance. Issuance of a Notice to Proceed by the Government before receipt of the required bonds or insurance certificates or policies shall not be a waiver of the requirement to furnish these documents.

#### WORKING HOURS

All work shall be performed during regular business hours, Monday through Friday, 7:30 AM to 5:00 PM. Other hours, if requested by the Contractor, may be approved by the Contracting Officer's Representative (COR). The Contractor shall give 24 hours in advance to COR who will consider any

deviation from the hours identified above. Changes in work hours, initiated by the Contractor, will not be a cause for a price increase.

#### PRECONSTRUCTION CONFERENCE

A preconstruction conference will be held 10 days after contract award at *American Embassy San Salvador, Blvd. Santa Elena, Antiguo Cuscatlán, La Libertad (San Salvador US Embassy)* to discuss the schedule, submittals, notice to proceed, mobilization and other important issues that effect construction progress. See FAR 52.236-26, Preconstruction Conference.

DELIVERABLES - The following items shall be delivered under this contract:			
Description	Quantity	Deliver Date	Deliver To
Section G. Securities/Insurance	1	10 days after award	CO
Section E. Construction Schedule	1	10 days after award	COR
Section E. Preconstruction Conference	1	10 days after award	COR
Section G. Personnel Biographies	1	10 days after award	COR
Section F. Payment Request	1	Last calendar day of each month	COR
Section D. Request for Substantial Completion	1	15 days before inspection	COR
Section D. Request for Final Acceptance	1	5 days before inspection	COR

#### F. ADMINISTRATIVE DATA

652.242-70 CONTRACTING OFFICER'S REPRESENTATIVE (COR) (AUG 1999)

(a) The Contracting Officer may designate in writing one or more Government employees, by name or position title, to take action for the Contracting Officer under this contract. Each designee shall be identified as a Contracting Officer's Representative (COR). Such designation(s) shall specify the scope and limitations of the authority so delegated; provided, that the designee shall not change the terms or conditions of the contract, unless the COR is a warranted Contracting Officer and this authority is delegated in the designation.

(b) The COR for this contract is **Mr. Jaime Scarpatti, IPC**

Payment: The Contractor's attention is directed to Section H, 52.232-5, "Payments Under Fixed-Price Construction Contracts". The following elaborates on the information contained in that clause.

Requests for payment, may be made no more frequently than monthly. Payment requests shall cover the value of labor and materials completed and in place, including a prorated portion of overhead and profit.

After receipt of the Contractor's request for payment, and on the basis of an inspection of the work, the Contracting Officer shall make a determination as to the amount, which is then due. If the Contracting Officer does not approve payment of the full amount applied for, less the retainage allowed by in 52.232-5, the Contracting Officer shall advise the Contractor as to the reasons.

Under the authority of 52.232-27(a), the 14 day period identified in FAR 52.232-27(a)(1)(i)(A) is hereby changed to 30 days.

*Invoices should be sent to:  
American Embassy San Salvador  
Financial Management Office  
Blvd Santa Elena, Antiguo Cuscatlan, El Salvador*

*The American Embassy San Salvador is IVA exempt, as per IVA exemption card No. EU-14-104*

**G. SPECIAL REQUIREMENTS**

**G.1.0 PERFORMANCE/PAYMENT PROTECTION** - The Contractor shall furnish some form of payment protection as described in 52.228-13 in the amount of 50% of the contract price.

**G.1.1** The Contractor shall provide the information required by the paragraph above within ten (10) calendar days after award. Failure to timely submit the required security may result in rescinding or termination of the contract by the Government. If the contract is terminated, the Contractor will be liable for those costs as described in FAR 52.249-10, Default (Fixed-Price Construction), which is included in this purchase order.

**G.1.2** The bonds or alternate performance security shall guarantee the Contractor's execution and completion of the work within the contract time. This security shall also guarantee the correction of any defects after completion, the payment of all wages and other amounts payable by the Contractor under its subcontracts or for labor and materials, and the satisfaction or removal of any liens or encumbrances placed on the work.

**G.1.3** The required securities shall remain in effect in the full amount required until final acceptance of the project by the Government. Upon final acceptance, the penal sum of the performance security shall be reduced to 10% of the contract price. The security shall remain in effect for one year after the date of final completion and acceptance, and the Contractor shall pay any premium required for the entire period of coverage.

**G.2.0 INSURANCE** - The Contractor is required by FAR 52.228-5, "Insurance - Work on a Government Installation" to provide whatever insurance is legally necessary. The Contractor shall at its own expense provide and maintain during the entire performance period the following insurance amounts:

**G.2.1 GENERAL LIABILITY** (includes premises/operations, collapse hazard, products, completed operations, contractual, independent contractors, broad form property damage, personal injury) :

<b>(1) BODILY INJURY, ON OR OFF THE SITE, IN U.S. DOLLARS</b>	
Per Occurrence	<i>Under local ISSS coverage</i>
Cumulative	<i>Under local ISSS coverage</i>
<b>(2) PROPERTY DAMAGE, ON OR OFF THE SITE, IN U.S. DOLLARS</b>	
Per Occurrence	<b>\$5,000</b>
Cumulative	<b>\$50,000</b>

**G.2.2** The foregoing types and amounts of insurance are the minimums required. The Contractor shall obtain any other types of insurance required by local law or that are ordinarily or customarily obtained in the location of the work. The limit of such insurance shall be as provided by law or sufficient to meet

normal and customary claims.

G.2.3 The Contractor agrees that the Government shall not be responsible for personal injuries or for damages to any property of the Contractor, its officers, agents, servants, and employees, or any other person, arising from and incident to the Contractor's performance of this contract. The Contractor shall hold harmless and indemnify the Government from any and all claims arising therefrom, except in the instance of gross negligence on the part of the Government.

G.2.4 The Contractor shall obtain adequate insurance for damage to, or theft of, materials and equipment in insurance coverage for loose transit to the site or in storage on or off the site.

G.2.5 The general liability policy required of the Contractor shall name "the United States of America, acting by and through the Department of State", as an additional insured with respect to operations performed under this contract.

### G.3.0 DOCUMENT DESCRIPTIONS

G.3.1 SUPPLEMENTAL DOCUMENTS: The Contracting Officer shall furnish from time to time such detailed drawings and other information as is considered necessary, in the opinion of the Contracting Officer, to interpret, clarify, supplement, or correct inconsistencies, errors or omissions in the Contract documents, or to describe minor changes in the work not involving an increase in the contract price or extension of the contract time. The Contractor shall comply with the requirements of the supplemental documents, and unless prompt objection is made by the Contractor within 20 days, their issuance shall not provide for any claim for an increase in the Contract price or an extension of contract time.

G.3.1.1. RECORD DOCUMENTS. The Contractor shall maintain at the project site:

- (1) a current marked set of Contract drawings and specifications indicating all interpretations and clarification, contract modifications, change orders, or any other departure from the contract requirements approved by the Contracting Officer; and,
- (2) a complete set of record shop drawings, product data, samples and other submittals as approved by the Contracting Officer.

G.3.1.2. "As-Built" Documents: After final completion of the work, but before final acceptance thereof, the Contractor shall provide:

- (1) a complete set of "as-built" drawings, based upon the record set of drawings, marked to show the details of construction as actually accomplished; and,
- (2) record shop drawings and other submittals, in the number and form as required by the specifications.

G.4.0 LAWS AND REGULATIONS - The Contractor shall, without additional expense to the Government, be responsible for complying with all laws, codes, ordinances, and regulations applicable to the performance of the work, including those of the host country, and with the lawful orders of any governmental authority having jurisdiction. Host country authorities may not enter the construction site without the permission of the Contracting Officer. Unless otherwise directed by the Contracting Officer, the Contractor shall comply with the more stringent of the requirements of such laws, regulations and orders and of the contract. In the event of a conflict between the contract and such laws, regulations and orders, the Contractor shall promptly advise the Contracting Officer of the conflict and of the Contractor's proposed course of action for resolution by the Contracting Officer.

G.4.1 The Contractor shall comply with all local labor laws, regulations, customs and practices pertaining to labor, safety, and similar matters, to the extent that such compliance is not inconsistent with the requirements of this contract.

G.4.2 The Contractor shall give written assurance to the Contracting Officer that all subcontractors and others performing work on or for the project have obtained all requisite licenses and permits.

G.4.3 The Contractor shall submit proper documentation and evidence satisfactory to the Contracting Officer of compliance with this clause.

G.5.0 CONSTRUCTION PERSONNEL - The Contractor shall maintain discipline at the site and at all times take all reasonable precautions to prevent any unlawful, riotous, or disorderly conduct by or among those employed at the site. The Contractor shall ensure the preservation of peace and protection of persons and property in the neighborhood of the project against such action. The Contracting Officer may require, in writing that the Contractor remove from the work any employee that the Contracting Officer deems incompetent, careless, insubordinate or otherwise objectionable, or whose continued employment on the project is deemed by the Contracting Officer to be contrary to the Government's interests.

G.5.1 If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately give notice, including all relevant information, to the Contracting Officer.

G.5.2 After award, the Contractor has ten calendar days to submit to the Contracting Officer a list of workers and supervisors assigned to this project for the Government to conduct all necessary security checks. It is anticipated that security checks will take 15 days to perform. For each individual the list shall include:

Full Name  
Place and Date of Birth  
Current Address  
Identification number

Failure to provide any of the above information may be considered grounds for rejection and/or resubmittal of the application. Once the Government has completed the security screening and approved the applicants a badge will be provided to the individual for access to the site. This badge may be revoked at any time due to the falsification of data, or misconduct on site.

G.5.3 The Contractor shall provide an English speaking supervisor on site at all times. This position is considered as key personnel under this purchase order.

G.6.0 Materials and Equipment - All materials and equipment incorporated into the work shall be new and for the purpose intended, unless otherwise specified. All workmanship shall be of good quality and performed in a skillful manner that will withstand inspection by the Contracting Officer.

#### G.7.0 SPECIAL WARRANTIES

G.7.1 Any special warranties that may be required under the contract shall be subject to the stipulations set forth in 52.246-21, "Warranty of Construction", as long as they are not in conflict.

G.7.2 The Contractor shall obtain and furnish to the Government all information required to make any subcontractor's, manufacturer's, or supplier's guarantee or warranty legally binding and effective. The Contractor shall submit both the information and the guarantee or warranty to the Government in sufficient time to permit the Government to meet any time limit specified in the guarantee or warranty, but not later than completion and acceptance of all work under this contract.

#### G.8.0 EQUITABLE ADJUSTMENTS

Any circumstance for which the contract provides an equitable adjustment that causes a change within the meaning of paragraph (a) of the "Changes" clause shall be treated as a change under that clause; provided, that the Contractor gives the Contracting Officer prompt written notice (within 20 days) stating:

- (a) the date, circumstances, and applicable contract clause authorizing an equitable adjustment and
- (b) that the Contractor regards the event as a changed condition for which an equitable adjustment is allowed under the contract

The Contractor shall provide written notice of a differing site condition within 10 calendar days of occurrence following FAR 52.236-2, Differing Site Conditions.

#### G.9.0 ZONING APPROVALS AND PERMITS

The Government shall be responsible for:

- obtaining proper zoning or other land use control approval for the project
- obtaining the approval of the Contracting Drawings and Specifications
- paying fees due for the foregoing; and,
- for obtaining and paying for the initial building permits.

#### H. CLAUSES

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://www.acquisition.gov/far/> or <http://farsite.hill.af.mil/vffara.htm>. Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at <http://www.statebuy.state.gov/> to access links to the FAR. You may also use an internet "search engine" (for example, Google, Yahoo, Excite) to obtain the latest location of the most current FAR.

The following Federal Acquisition Regulation clause(s) is/are incorporated by reference (48 CFR CH. 1):

<u>CLAUSE</u>	<u>TITLE AND DATE</u>
52.202-1	DEFINITIONS (NOV 2013)
52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011)
52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (JULY 2013)
52.204-12	DATA UNIVERSAL NUMBERING SYSTEM NUMBER MAINTENANCE (DEC 2012)
52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (JULY 2013)
52.204-19 (DEC 2014)	INCORPORATION BY REFERENCE OF REPRESENTATIONS AND CERTIFICATIONS
52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED OR PROPOSED FOR DEBARMENT (AUG 2013)
52.209-9	UPDATES OF INFORMATION REGARDING RESPONSIBILITY MATTERS (JULY 2013)

52.213-4 TERMS AND CONDITIONS –SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (MAY 2015)

52.216-7 ALLOWABLE COST AND PAYMENT (JUN 2013)

52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)

52.222-19 CHILD LABOR – COOPERATION WITH AUTHORITIES AND REMEDIES (JAN 2014)

52.222-50 COMBATING TRAFFICKING IN PERSONS (FEB 2009)

52.223-18 ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (AUG 2011)

52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUNE 2008)

52.225-14 INCONSISTENCY BETWEEN ENGLISH VERSION AND TRANSLATION OF CONTRACT (FEB 2000)

52.225-19 CONTRACTOR PERSONNEL IN A DESIGNATED OPERATIONAL AREA OR SUPPORTING A DIPLOMATIC MISSION OUTSIDE THE UNITED STATES (MAR 2008)

52.228-4 WORKERS' COMPENSATION AND WAR-HAZARD INSURANCE OVERSEAS (APR 1984)

52.228-5 INSURANCE - WORK ON A GOVERNMENT INSTALLATION (JAN 1997)

52.228-11 PLEDGES OF ASSETS (JAN 2012)

52.228-13 ALTERNATIVE PAYMENT PROTECTION (JULY 2000)

52.228-14 IRREVOCABLE LETTER OF CREDIT (NOV 2014)

52.229-6 TAXES - FOREIGN FIXED-PRICE CONTRACTS (FEB 2013)

52.229-7 TAXES- FIXED PRICE CONTRACTS WITH FOREIGN GOVERNMENTS (FEB 2013)

52.232-5 PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS (MAY 2014)

52.232-8 DISCOUNTS FOR PROMPT PAYMENT (FEB 2002)

52.232-11 EXTRAS (APR 1984)

52.232-18 AVAILABILITY OF FUNDS (APR 1984)

52.232-22 LIMITATION OF FUNDS (APR 1984)

52.232-25 PROMPT PAYMENT (JULY 2013)

52.232-27 PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (MAY 2014)

- 52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER - SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
- 52.232-34 PAYMENT BY ELECTRONIC FUNDS TRANSFER - - OTHER THAN SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
- 52.233-1 DISPUTES (MAY 2014) *Alternate I (DEC 1991)*
- 52.233-3 PROTEST AFTER AWARD (AUG 1996)
- 52.236-2 DIFFERING SITE CONDITIONS (APR 1984)
- 52.236-3 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK (APR 1984)
- 52.236-5 MATERIAL AND WORKMANSHIP (APR 1984)
- 52.236-6 SUPERINTENDENCE BY THE CONTRACTOR (APR 1984)
- 52.236-7 PERMITS AND RESPONSIBILITIES (NOV 1991)
- 52.236-8 OTHER CONTRACTS (APR 1984)
- 52.236-9 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS (APR 1984)
- 52.236-10 OPERATIONS AND STORAGE AREAS (APR 1984)
- 52.236-11 USE AND POSSESSION PRIOR TO COMPLETION (APR 1984)
- 52.236-12 CLEANING UP (APR 1984)
- 52.236-14 AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984)
- 52.236-15 SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)
- 52.236-21 SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FEB 1997)
- 52.236-26 PRECONSTRUCTION CONFERENCE (FEB 1995)
- 52.242-14 SUSPENSION OF WORK (APR 1984)
- 52.243-4 CHANGES (JUN 2007)
- 52.243-5 CHANGES AND CHANGED CONDITIONS (APR 1984)
- 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (JULY 2014)
- 52.245-2 GOVERNMENT PROPERTY INSTALLATION OPERATION SERVICES (APR 2012)
- 52.245-9 USE AND CHARGES (APR 2012)
- 52.246-12 INSPECTION OF CONSTRUCTION (AUG 1996)
- 52.246-17 WARRANTY OF SUPPLIES OF A NONCOMPLEX NATURE (JUN 2003)

- 52.246-21 WARRANTY OF CONSTRUCTION (MAR 1994)
- 52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (APR 2012) *Alternate 1 (SEPT 1996)*
- 52.249-10 DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984)
- 52.249-14 EXCUSABLE DELAYS (APR 1984)

The following Department of State Acquisition Regulation (DOSAR) clause(s) is/are set forth in full text:

652.204-70 DEPARTMENT OF STATE PERSONAL IDENTIFICATION CARD ISSUANCE PROCEDURES (MAY 2011)

(a) The Contractor shall comply with the Department of State (DOS) Personal Identification Card Issuance Procedures for all employees performing under this contract who require frequent and continuing access to DOS facilities, or information systems. The Contractor shall insert this clause in all subcontracts when the subcontractor's employees will require frequent and continuing access to DOS facilities, or information systems.

(b) The DOS Personal Identification Card Issuance Procedures may be accessed at <http://www.state.gov/m/ds/rls/rpt/c21664.htm> .  
(End of clause)

652.229-71 PERSONAL PROPERTY DISPOSITION AT POSTS ABROAD (AUG 1999)

Regulations at 22 CFR Part 136 require that U.S. Government employees and their families do not profit personally from sales or other transactions with persons who are not themselves entitled to exemption from import restrictions, duties, or taxes. Should the Contractor experience importation or tax privileges in a foreign country because of its contractual relationship to the United States Government, the Contractor shall observe the requirements of 22 CFR Part 136 and all policies, rules, and procedures issued by the chief of mission in that foreign country.

(End of clause)

CONTRACTOR IDENTIFICATION (JULY 2008)

Contract performance may require contractor personnel to attend meetings with government personnel and the public, work within government offices, and/or utilize government email.

Contractor personnel must take the following actions to identify themselves as non-federal employees:

- 1) Use an e-mail signature block that shows name, the office being supported and company affiliation (e.g. "John Smith, Office of Human Resources, ACME Corporation Support Contractor");
- 2) Clearly identify themselves and their contractor affiliation in meetings;
- 3) Identify their contractor affiliation in Departmental e-mail and phone listings whenever contractor personnel are included in those listings; and
- 4) Contractor personnel may not utilize Department of State logos or indicia on business cards.

(End of clause)

652.236-70 ACCIDENT PREVENTION (APR 2004)

(a) *General.* The Contractor shall provide and maintain work environments and procedures which will safeguard the public and Government personnel, property, materials, supplies, and equipment exposed to contractor operations and activities; avoid interruptions of Government operations and delays in project completion dates; and, control costs in the performance of this contract. For these purposes, the Contractor shall:

- (1) Provide appropriate safety barricades, signs and signal lights;
- (2) Comply with the standards issued by any local government authority having jurisdiction over occupational health and safety issues; and,
- (3) Ensure that any additional measures the Contracting Officer determines to be reasonably necessary for this purpose are taken.
- (4) For overseas construction projects, the Contracting Officer shall specify in writing additional requirements regarding safety if the work involves:

- (i) Scaffolding;
- (ii) Work at heights above two (2) meters;
- (iii) Trenching or other excavation greater than one (1) meter in depth;
- (iv) Earth moving equipment;
- (v) Temporary wiring, use of portable electric tools, or other recognized electrical hazards. Temporary wiring and portable electric tools require the use of a ground fault circuit interrupter (GFCI) in the affected circuits; other electrical hazards may also require the use of a GFCI;
- (vi) Work in confined spaces (limited exits, potential for oxygen less than 19.5 percent or combustible atmosphere, potential for solid or liquid engulfment, or other hazards considered to be immediately dangerous to life or health such as water tanks, transformer vaults, sewers, cisterns, etc.);
- (vii) Hazardous materials - a material with a physical or health hazard including but not limited to, flammable, explosive, corrosive, toxic, reactive or unstable, or any operations which creates any kind of contamination inside an occupied building such as dust from demolition activities, paints, solvents, etc.; or
- (viii) Hazardous noise levels.

(b) *Records.* The Contractor shall maintain an accurate record of exposure data on all accidents incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to or theft of property, materials, supplies, or equipment. The Contractor shall report this data in the manner prescribed by the Contracting Officer.

(c) *Subcontracts.* The Contractor shall be responsible for its subcontractors' compliance with this clause.

(d) *Written program.* Before commencing work, the Contractor shall:

- (1) Submit a written plan to the Contracting Officer for implementing this clause. The plan shall include specific management or technical procedures for effectively controlling hazards associated with the project; and,
- (2) Meet with the Contracting Officer to discuss and develop a mutual understanding relative to administration of the overall safety program.

(e) *Notification.* The Contracting Officer shall notify the Contractor of any non-compliance with these requirements and the corrective actions required. This notice, when delivered to the Contractor or the Contractor's representative on site, shall be deemed sufficient notice of the non-compliance and corrective action required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to promptly take corrective action, the Contracting Officer may issue an order suspending all or part of the work until satisfactory corrective action has been taken. The Contractor shall not be entitled to any equitable adjustment of the contract price or extension of the performance schedule on any suspension of work order issued under this clause.

(End of clause)

(a) The Contractor warrants the following:

- (1) That it has obtained authorization to operate and do business in the country or countries in which this contract will be performed;

- (2) That it has obtained all necessary licenses and permits required to perform this contract; and,
- (3) That it shall comply fully with all laws, decrees, labor standards, and regulations of said country or countries during the performance of this contract.

(b) If the party actually performing the work will be a subcontractor or joint venture partner, then such subcontractor or joint venture partner agrees to the requirements of paragraph (a) of this clause.

(End of clause)

652.243-70      NOTICES (AUG 1999)

Any notice or request relating to this contract given by either party to the other shall be in writing. Said notice or request shall be mailed or delivered by hand to the other party at the address provided in the schedule of the contract. All modifications to the contract must be made in writing by the Contracting Officer.

(End of clause)

**I. LIST OF ATTACHMENTS**

<b><i>ATTACHMENT NUMBER</i></b>	<b><i>DESCRIPTION OF ATTACHMENT</i></b>	<b><i>NUMBER OF PAGES</i></b>
<i>Attachment 1</i>	<i>Sample Bank Letter of Guaranty</i>	<i>1</i>
<i>Attachment 2</i>	<i>Sample Breakdown of Price by Divisions of Specifications</i>	<i>1</i>
<i>Attachment 3</i>	<i>Scope of Work</i>	<i>16</i>
<i>Attachment 4</i>	<i>Government Specifications</i>	<i>28</i>

**J. QUOTATION INFORMATION**

**A. QUALIFICATIONS OF OFFERORS**

Offerors/quoters must be technically qualified and financially responsible to perform the work described in this solicitation. At a minimum, each Offeror/Quoter must meet the following requirements:

- (1) Be able to understand written and spoken English;
- (2) Have an established business with a permanent address and telephone listing;
- (3) Be able to demonstrate prior construction experience with suitable references;
- (4) Have the necessary personnel, equipment and financial resources available to perform the work;
- (5) Have all licenses and permits required by local law;
- (6) Meet all local insurance requirements;
- (7) Have the ability to obtain or to post adequate performance security, such as bonds, irrevocable letters of credit or guarantees issued by a reputable financial institution;
- (8) Have no adverse criminal record; and
- (9) Have no political or business affiliation which could be considered contrary to the interests of the United States.

**B. SUBMISSION OF QUOTATIONS**

This solicitation is for the performance of the construction services described in SCOPE OF WORK, and the Attachments which are a part of this request for quotation.

<b>Each quotation must consist of the following:</b>		
<b>VOLUME</b>	<b>TITLE</b>	<b>NUMBER OF COPIES*</b>
<b>I</b>	Standard Form 18 including a completed Attachment 4, "BREAKDOWN OF PROPOSAL PRICE BY DIVISIONS OF SPECIFICATIONS"	<b>3</b>
<b>II</b>	Performance schedule in the form of a "bar chart" and Business Management/Technical Proposal	<b>3</b>

Submit the complete quotation to the address indicated. If mailed, on Standard Form 18, or if hand-delivered, use the address set forth below:

**EMBAJADA AMERICANA, ATTN. RFQ SES60016Q0040**  
FINAL BLVD. SANTA ELENA, AV. CONCHAGUA, PORTON NORTE, URBANIZACION STA.  
ELENA, ANTIGUO CUSCATLAN, LA LIBERTAD, EL SALVADOR

The Offeror/Quoter shall identify and explain/justify any deviations, exceptions, or conditional assumptions taken with respect to any of the instructions or requirements of this request for quotation in the appropriate volume of the offer.

Volume II: Performance schedule and Business Management/Technical Proposal.

(a) Present the performance schedule in the form of a "bar chart" indicating when the various portions of the work will be commenced and completed within the required schedule. This bar chart shall be in sufficient detail to clearly show each segregable portion of work and its planned commencement and completion date.

(b) The Business Management/Technical Proposal shall be in two parts, including the following information:

Proposed Work Information - Provide the following:

- (1) A list of the names, addresses and telephone numbers of the owners, partners, and principal officers of the Offeror;
- (2) The name and address of the Offeror's field superintendent for this project;
- (3) A list of the names, addresses, and telephone numbers of subcontractors and principal materials suppliers to be used on the project, indicating what portions of the work will be performed by them; and,

Experience and Past Performance - List all contracts and subcontracts your company has held over the past three years for the same or similar work. Provide the following information for each contract and subcontract:

- (1) Customer's name, address, and telephone numbers of customer's lead contract and technical personnel;
- (2) Contract number and type;
- (3) Date of the contract award place(s) of performance, and completion dates; Contract dollar value;
- (4) Brief description of the work, including responsibilities; and
- (5) Any litigation currently in process or occurring within last 5 years.

C. 52.236-27 SITE VISIT (CONSTRUCTION) (FEB 1995)

(a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.

(b) A site visit has been scheduled for **Friday, March 18, 2016 at 9:00 am.**

(c) Participants will meet at **Chancery Building, American Embassy San Salvador**

D. MAGNITUDE OF CONSTRUCTION PROJECT

It is anticipated that the range in price of this contract will be: ***Between \$100,000 and \$200,000.***

**E. LATE QUOTATIONS. Late quotations shall be handled in accordance with FAR.**

**F. 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)**

This contract incorporates the following provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer.

Also, the full text of a solicitation provision may be accessed electronically at: <http://acquisition.gov/far/index.html/> or <http://farsite.hill.af.mil/vffara.htm>. Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at <http://www.statebuy.state.gov> to access the link to the FAR, or use of an Internet "search engine" (for example, Google, Yahoo or Excite) is suggested to obtain the latest location of the most current FAR.

The following Federal Acquisition Regulation provisions are incorporated by reference (48 CFR CH. 1):

<u>PROVISION</u>	<u>TITLE AND DATE</u>
52.204-6	DATA UNIVERSAL NUMBERING SYSTEM (DUNS) NUMBER (JULY 2013)
52.204-7	SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
52.204-16	COMMERCIAL AND GOVERNMENT ENTITY CODE REPORTING (NOV 2014)
52.214-34	SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE (APR 1991)
52.215-1	INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (JAN 2004)

**K. EVALUATION CRITERIA**

Award will be made to the lowest priced, acceptable, responsible quoter. The Government reserves the right to reject quotations that are unreasonably low or high in price.

The Government will determine acceptability by assessing the offeror's compliance with the terms of the RFQ. The Government will determine responsibility by analyzing whether the apparent successful quoter complies with the requirements of FAR 9.1, including:

- ability to comply with the required performance period, taking into consideration all existing commercial and governmental business commitments;
- satisfactory record of integrity and business ethics;
- necessary organization, experience, and skills or the ability to obtain them;
- necessary equipment and facilities or the ability to obtain them; and
- otherwise, qualified and eligible to receive an award under applicable laws and regulations.

The following DOSAR is provided in full text:

652.209-79 REPRESENTATION BY CORPORATION REGARDING AN UNPAID DELINQUENT TAX LIABILITY OR A FELONY CRIMINAL CONVICTION UNDER ANY FEDERAL LAW (SEPT 2014) (DEVIATION per PIB 2014-21)

(a) In accordance with section 7073 of Division K of the Consolidated Appropriations Act, 2014 (Public Law 113-76) none of the funds made available by that Act may be used to enter into a contract with any corporation that –

(1) Was convicted of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency has direct knowledge of the conviction, unless the agency has considered, in accordance with its procedures, that this further action is not necessary to protect the interests of the Government; or

(2) Has any unpaid Federal tax liability that has been assessed for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency has direct knowledge of the unpaid tax liability, unless the Federal agency has considered, in accordance with its procedures, that this further action is not necessary to protect the interests of the Government.

For the purposes of section 7073, it is the Department of State's policy that no award may be made to any corporation covered by (1) or (2) above, unless the Procurement Executive has made a written determination that suspension or debarment is not necessary to protect the interests of the Government.

(b) Offeror represents that—

(1) It is [ ] is not [ ] a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

(2) It is [ ] is not [ ] a corporation that has any unpaid Federal tax liability that has been assessed for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

(End of provision)

SECTION L - REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS OR QUOTERS

L.1 52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

"Common parent", as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Taxpayer Identification Number (TIN)", as used in this provision, means the number required by the IRS to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision in order to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325 (d), reporting requirements of 26 USC 6041, 6041A, and 6050M and implementing regulations issued by the Internal Revenue Service (IRS). If the resulting contract is subject to the reporting requirements

described in FAR 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments

(c) otherwise due under the contract.

(d) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 USC 7701( c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(e) Taxpayer Identification Number (TIN).

TIN: \_\_\_\_\_

- TIN has been applied for.
- TIN is not required because:
  - Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the U.S. and does not have an office or place of business or a fiscal paying agent in the U.S.;
  - Offeror is an agency or instrumentality of a foreign government;
  - Offeror is an agency or instrumentality of the Federal Government.

(e) Type of Organization.

- Sole Proprietorship;
- Partnership;
- Corporate Entity (not tax exempt);
- Corporate Entity (tax exempt);
- Government Entity (Federal, State or local);
- Foreign Government;
- International organization per 26 CFR 1.6049-4;
- Other \_\_\_\_\_

(f) Common Parent.

- Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this clause.
- Name and TIN of common parent:  
Name \_\_\_\_\_  
TIN \_\_\_\_\_

(End of provision)

L.2 52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (DEC 2014)

(a)(1) The North American Industry Classification System (NAICS) code(s) for this acquisition is/are:

**236118 - Construction Management, residential remodeling**

**236220 - Construction Management, commercial and institutional building or Warehouse construction**

**237110 - Construction Management, water and sewage line and related structures**

**237310 - Construction Management, highway road, street or bridge**

**237990 - Construction Management, outdoor recreation facility**

(2) The small business size standard is **\$36.5 Million USD**.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)(1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7 is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (d) applies.

(ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)(1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures;

or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.

(iii) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.

(iv) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(v) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations—Representation.

(vi) 52.209-5, Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

(vii) 52.214-14, Place of Performance—Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.

(viii) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.

(ix) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.

(A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.

(B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.

(x) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.

(xi) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.

(xii) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.

(xiii) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.

(xiv) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

(xv) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA-designated items.

(xvi) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.

(xvii) 52.225-4, Buy American—Free Trade Agreements—Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225-3.

(A) If the acquisition value is less than \$25,000, the basic provision applies.

(B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.

(C) If the acquisition value is \$50,000 or more but is less than \$79,507, the provision with its Alternate II applies.

(D) If the acquisition value is \$79,507 or more but is less than \$100,000, the provision with its Alternate III applies.

(xviii) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xix) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan—Certification. This provision applies to all solicitations.

(xx) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-Representation and Certifications. This provision applies to all solicitations.

(xxi) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.

(2) The following certifications are applicable as indicated by the Contracting Officer:

[Contracting Officer check as appropriate.]

\_\_\_ (i) 52.204-17, Ownership or Control of Offeror.

\_\_\_ (ii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

\_\_\_ (iii) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment- Certification.

\_\_\_ (iv) 52.222-52, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services-Certification.

\_\_\_ (v) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

\_\_\_ (vi) 52.227-6, Royalty Information.

\_\_\_ (A) Basic.

\_\_\_ (B) Alternate I.

\_\_\_ (vii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the SAM website accessed through <https://www.acquisition.gov>. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [*offeror to insert changes, identifying change by clause number, title, date*]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR CLAUSE #	TITLE	DATE	CHANGE
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Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of provision)

L.3. 52.225-18 PLACE OF MANUFACTURE (SEPT 2006)

(a) *Definitions*. As used in this clause—

“Manufactured end product” means any end product in Federal Supply Classes (FSC) 1000-9999, except—

(1) FSC 5510, Lumber and Related Basic Wood Materials;

(2) Federal Supply Group (FSG) 87, Agricultural Supplies;

- (3) FSG 88, Live Animals;
- (4) FSG 89, Food and Related Consumables;
- (5) FSC 9410, Crude Grades of Plant Materials;
- (6) FSC 9430, Miscellaneous Crude Animal Products, Inedible;
- (7) FSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
- (8) FSC 9610, Ores;
- (9) FSC 9620, Minerals, Natural and Synthetic; and
- (10) FSC 9630, Additive Metal Materials.

“Place of manufacture” means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

(b) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly—

- (1)  In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or
- (2)  Outside the United States.

(End of provision)

**L.4 AUTHORIZED CONTRACTOR ADMINISTRATOR**

If the offeror does not fill-in the blanks below, the official who signed the offer will be deemed to be the offeror's representative for Contract Administration, which includes all matters pertaining to payments.

Name:
Telephone Number:
Address:

**[Proposal Note: If the bidder/offeror has indicated “yes” in blocks (a)(1), (2), or (3) of the following provision, the bidder/offeror shall include Defense Base Act insurance costs covering those employees in their proposed prices. The bidder/offeror may obtain DBA insurance directly from any Department of Labor approved providers at the DOL website at <http://www.dol.gov/owcp/dlhwc/lscarrier.htm>.]**

**L.5 652.228-70 DEFENSE BASE ACT – COVERED CONTRACTOR EMPLOYEES (JUN 2006)**

*(a) Bidders/offerors shall indicate below whether or not any of the following categories of employees will be employed on the resultant contract, and, if so, the number of such employees:*

<u>Category</u>	<u>Yes/No</u>	<u>Number</u>
<i>(1) United States citizens or residents</i>		
<i>(2) Individuals hired in the United States, regardless of citizenship</i>		
<i>(3) Local nationals or third country nationals where contract performance</i>		<i>local nationals:</i>

<i>takes place in a country where there are no local workers' compensation laws</i>		<i>third-country nationals:</i>	
<i>(4) Local nationals or third country nationals where contract performance takes place in a country where there are local workers' compensation laws</i>		<i>local nationals:</i>	
		<i>third-country nationals:</i>	

(b) The Contracting Officer has determined that for performance in the country of **El Salvador**.

Workers' compensation laws exist that will cover local nationals and third country nationals.

Workers' compensation laws do not exist that will cover local nationals and third country nationals.

(c) If the bidder/offeror has indicated "yes" in block (a)(4) of this provision, the bidder/offeror shall not purchase Defense Base Act insurance for those employees. However, the bidder/offeror shall assume liability toward the employees and their beneficiaries for war-hazard injury, death, capture, or detention, in accordance with the clause at FAR 52.228-4.

(d) RESERVED

(End of provision)

ATTACHMENT #1 - SAMPLE LETTER OF BANK GUARANTY

San Salvador, El Salvador

Date [ ]

Contracting Officer  
U.S. Embassy, San Salvador  
Blvd y Santa Elena  
Antiguo Cuscatlan  
San Salvador, El Salvador

Letter of Guaranty No. \_\_\_\_\_

SUBJECT: Performance and Guaranty

The Undersigned, acting as the duly authorized representative of the bank, declares that the bank hereby guarantees to make payment to the Contracting Officer by check made payable to the Treasurer of the United States, immediately upon notice, after receipt of a simple written request from the Contracting Officer, immediately and entirely without any need for the Contracting Officer to protest or take any legal action or obtain the prior consent of the Contractor to show any other proof, action, or decision by an other authority, up to the sum of **[amount equal to 20% of the contract price in U.S. dollars during the period ending with the date of final acceptance and 10% of the contract price during contract guaranty period]**, which represents the deposit required of the Contractor to guarantee fulfillment of his obligations for the satisfactory, complete, and timely performance of the said contract **[contract number]** for **[description of work]** at **[location of work]** in strict compliance with the terms, conditions and specifications of said contract, entered into between the Government and **[name of contractor]** of **[address of contractor]** on **[contract date]**, plus legal charges of 10% per annum on the amount called due, calculated on the sixth day following receipt of the Contracting Officer's written request until the date of payment.

The undersigned agrees and consents that said contract may be modified by Change Order or Supplemental Agreement affecting the validity of the guaranty provided, however, that the amount of this guaranty shall remain unchanged.

The undersigned agrees and consents that the Contracting Officer may make repeated partial demands on the guaranty up to the total amount of this guaranty, and the bank will promptly honor each individual demand.

This letter of guaranty shall remain in effect until 3 months after completion of the guaranty period of Contract requirement.

Depository Institution:  [name]

Address: \_\_\_\_\_

Representatives: \_\_\_\_\_ Location: \_\_\_\_\_

\_\_\_\_\_ State of Inc.: \_\_\_\_\_

\_\_\_\_\_ Corporate Seal: \_\_\_\_\_

\_\_\_\_\_

Certificate of Authority is attached evidencing authority of the signer to bind the bank to this document.

ATTACHMENT #2 - UNITED STATES DEPARTMENT OF STATE

SAMPLE BREAKDOWN OF PRICE BY DIVISIONS OF SPECIFICATIONS

(1) DIVISION/DESCRIPTION (2) LABOR (3) MATERIALS (4) OVERHEAD  
(5) PROFIT (6) TOTAL

---

1. General Requirements  
2. Site Work

---

3. Concrete  
4. Masonry

---

5. Metals  
6. Wood and Plastic

---

7. Thermal and Moisture  
8. Doors and Windows

---

9. Finishes  
10. Specialties

---

11. Equipment  
12. Furnishings

---

13. Special Construction  
14. Conveying Systems

---

15. Mechanical  
16. Electrical

---

TOTAL: \$ \_\_\_\_\_

Allowance Items:

PROPOSAL PRICE: \$ \_\_\_\_\_

TOTAL: \_\_\_\_\_

---

Alternates (list separately; do not total):

---

*Offeror:* \_\_\_\_\_

*Date* \_\_\_\_\_

PRICE BREAKDOWN BY DIVISION OF SPECIFICATION ITEMS

Attachment 3  
**SCOPE OF WORK**

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RFP –  
Information  
Technology  
Infrastructure  
Remediation -  
OpenNet

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American Embassy San  
Salvador

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Scarpatti, Jaime R

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## Contents

RFP – INFORMATION TECHNOLOGY INFRASTRUCTURE REMEDIATION .....	3
1. SCOPE OF CONTRACT .....	3
2. PERIOD OF PERFORMANCE .....	3
3. PRICING.....	3
4. SITE SURVEY BY CONTRACTOR .....	3
5. SECURITY VETTING OF CONTRACTOR PERSONNEL .....	3
INFORMATION TECHNOLOGY INFRASTRUCTURE REMEDIATION - PERFORMANCE WORK STATEMENT .....	4
1. DESCRIPTION OF SERVICES .....	4
1.1. EQUIPMENT PROVIDED .....	4
1.2. TELECOMMUNICATION ROOMS.....	4
1.3 INDIVIDUAL DATA CABLE RUNS .....	5
2. WARRANTY .....	7
3. SECURITY .....	7
4. QUALITY ASSURANCE SURVEILLANCE PLAN .....	8
5. TELECOMMUNICATION STANDARDS.....	8

# **RFP – INFORMATION TECHNOLOGY INFRASTRUCTURE REMEDATION**

## **1. SCOPE OF CONTRACT**

This is a Request for Proposal (RFP). The contractor shall provide replacement of all existing data lines servicing our OpenNet network, data patch panels, racks, transitional devices and battery backup systems servicing the U.S. Embassy in El Salvador. The vendor shall provide where necessary corresponding metal conduit to properly run and separate cabling transitioning from one space to another. The vendor will also be responsible for the removal and disposal of all old, unused cabling infrastructures (copper, conduit).

## **2. PERIOD OF PERFORMANCE**

This contract will be in effect for the duration of the completion of the Information Technology Infrastructure Remediation project. The Embassy's operating hours are Monday thru Friday from 7:30 AM until 5:00 PM. All work must be completed during operating hours at the Embassy. Work outside these time frames must be coordinated a week in advance the work starts.

## **3. PRICING**

The firm-fixed unit shall include all direct and indirect costs, profit, and required licenses and permits. Pricing for all other contractual requirements, for which pricing elements are not separately identified, are assumed to be part of the Contractor's normal cost of doing business and are included in the firm fixed unit prices.

Prices shall not include IVA. The US Embassy is exempt from paying the final consumer value added tax. IVA exemption card information will be provided separately with each task or delivery order.

The Government shall pay the Contractor for the life of a delivery order at rates effective when the delivery order was issued.

## **4. SITE SURVEY BY CONTRACTOR**

The contractor shall perform a full site survey to understand the scope of the expected work outlined in this RFP. The site survey conducted by the contractor will provide the final counts, distances for cable runs, and types of equipment being petitioned as part of this RFP. The site survey will be conducted on March 18, 2016 at 9:00 AM. Interested parties must submit visitor access information by 1:00 PM on March 16, 2016.

## **5. SECURITY VETTING OF CONTRACTOR PERSONNEL**

Upon contract award, all contractor personnel that will be accessing the Embassy will need to submit personal information in order for our Foreign Service National Security Team to conduct a background check. The process to vet contractor personnel will take approximately three weeks. Only vetted personnel will be allowed on our Embassy compound.

# INFORMATION TECHNOLOGY INFRASTRUCTURE REMEDIATION - PERFORMANCE WORK STATEMENT

## 1. DESCRIPTION OF SERVICES

This solicitation is for the replacement of all existing data lines for our OpenNet network including data patch panels, racks, transitional devices and battery backup systems servicing the U.S. Embassy in El Salvador. The vendor shall provide where necessary corresponding conduit to properly run and separate cabling transitioning from one space to another. The vendor will be responsible for the *removal and disposal* of all old, unused cabling and conduit infrastructures to include old cabinets and equipment. Any equipment removed must be turned over to the Information Management Officer or his designated POC for the contracted work.

The Contractor shall ensure each terminated connection through the Embassy's network is of the highest quality possible and shall be uninterrupted, clear and with no data / signal loss above industry standards. The Contractor will provide a full set of cable test results showing, at a minimum, the pass/fail results of each cable, and the DB loss on each cable. Problems identified shall be remedied immediately, and the Contracting Officer Representative (COR) must be immediately informed of any problems, and their resolution.

The Contractor shall notify the COR and Ordering Official of any scheduled outage that will affect any of the existing services. The Contractor shall inform the COR at least one day in advance of the scheduled outage and provide a detailed explanation for the outage to include the amount of anticipated downtime.

The Contractor shall provide a detailed timeline that includes weekly tasks and milestones for the entire duration of this renovation project.

### 1.1. EQUIPMENT PROVIDED

All equipment and wiring provided by the Contractor shall be new and include up-to-date technology offered to the general public.

*Plenum* UTP (copper) cabling must be CAT-6. Modular CAT-6 face plates shall be provided at all terminating points with the appropriate patch cable to the computer device. All cabling should be run in the appropriate conduit. Conduit might be in place already or shall be provided and installed by the contractor to meet Department cable distribution standards. UTP Wall mount cabinet 14U with ventilation and wall mount cabinet 32U with ventilation shall be provided. All cabinet shall have their respective locks. Cabling runs will support a minimum of 1Gbps on Client (horizontal runs).

APC Uninterrupted Power Supplies (UPS) shall be provided to support power outages for all equipment terminating in all telecommunication rooms.

### 1.2. TELECOMMUNICATION ROOMS

A considerable amount of work will be done updating infrastructure located in our primary telecommunication and intermediary rooms. All cable runs must be certified to comply with their respective Industry standard (i.e. CAT-6) requirements, and performance reports of each run must be provided. All plenum cable runs must be identified by properly labeling them at all terminating points (cable, face plate, patch panels).

These rooms are located as following:

- Primary computer room is located in room number 207 in the Chancery building.
- Primary telecomm room is located in room number 149 in the Chancery building
- Chancery building's 1st, 2nd, 3rd, and 4th floor have an intermediary telecom room located in the elevator lobby rooms 109, 209, 309, and 409.
- Annex building's 1st, 2nd, 3rd, and 4th floor have an intermediary telecom room in each floor located in room 109, 209, 309, and 409.
- Cafeteria: Electrical room
- Commissary: Electrical room near loading dock
- Maintenance facility: Electrical room near maintenance bay
- Post office: electrical room
- MSG residence
- GSO Warehouse
- Gym

### ***1.3 INDIVIDUAL DATA CABLE RUNS***

The contractor shall provide individual cable runs to service the OpenNet computer systems located in the spaces referenced on the list below (***additional spaces might be identified during a site survey***). The contractor shall run plenum CAT-6 cabling in existing conduit or new conduit to each of these locations in accordance with Department of State guidelines and regulations. The National Electrical Code (NEC) limits the number of cables that can be placed in a conduit based on the type of cable. In the case of multi-conductor cables having 2 or more conductors, the conduit fill is limited to 40%. Telecommunication standards outlined below under Section 5 shall be followed for all cable runs.

Modular CAT-6 face plates shall be provided at all terminating points with the appropriate patch cable to the computer device (certification should be done through both patch cables, work station and patch panel). All cabling should be run in the appropriate conduit. Conduit might be in place already or shall be provided by the contractor to meet Department cable distribution standards.

***The contractor shall perform a full site survey to understand the scope of the expected work outlined in this RFP. The site survey conducted by the contractor will provide the final count, distances for cable runs, and types of equipment being petitioned as part of this RFP.***

***Additional CAT-6 cable runs and terminations shall be done by the contractor to provide appropriate quality of services to any additional location identified during the performance period of this contract, and shall include any extra or missed data drops previously missed during any of the surveys.***

#### **OpenNet CAT-6 Run ESTIMATES**

##### **1.3.1 Chancery Building**

***1st Floor***

***2nd Floor***

***3rd Floor***

### **1.3.2 Annex building**

*1st Floor*

*2nd Floor*

*3rd Floor*

*4th Floor*

### **1.3.3 GSO Building**

*DPO*

*Pouch Room*

*Supply Room*

### **1.3.4 Cafeteria Building**

*CLO / AEAES*

*Kitchen*

### **1.3.5 Commissary Building**

### **1.3.6 Motor Pool Building**

### **1.3.7 Facility Management**

### **1.3.8 GSO Warehouse**

### **1.3.9 State Warehouse**

*Welcome kit office*

*Plumbing and mechanic*

### **1.3.10 Facility Warehouse**

### **1.3.11 Gym**

### **1.3.12 Visitor's Entrance**

### **1.3.13 North Guard Entrance**

*North Gate entrance booth*

*Consular external entrance guard booth*

*Visitor's sally port*

### **1.3.14 MSG House**

## **2. WARRANTY**

2.1. The Contractor shall provide, at no additional cost to the Government, a warranty covering each Contractor-provided device. The minimum duration of the warranty shall be 2 years. The warranty shall commence upon the later of the following:

- a. Activation of the services
- b. Installation/delivery of the equipment

2.2. The Contractor shall stamp or mark the equipment delivered, or otherwise furnish notice with the equipment, of the existence of a warranty. Sufficient information shall be presented for supply personnel and users to identify warranted supplies. Warranty information shall include the terms and duration of the warranty and the name and telephone number to request warranty services.

2.3. The Contractor, by repair or replacement of the defective item, shall complete all warranty services within 72 hours of notification of the defect. Warranty service shall be deemed complete when the repaired or replaced item is in place and fully functioning.

## **3. SECURITY**

The Contractor shall report any breach, or incident reasonably believed to have been a breach, which may have exposed Government data to the COR. The Contractor shall report to the COR any known or discovered security vulnerabilities which have the potential to compromise the confidentiality, or integrity of data resident on, transmitted or received by cellular devices, and any peripherals, firmware, or software related to the devices provided to the Embassy by the Contractor immediately, but not later than 24 hours following discovery.

#### 4. QUALITY ASSURANCE SURVEILLANCE PLAN

This Quality Assurance Surveillance Plan (QASP) is designed to provide an effective surveillance method to promote effective Contractor performance. The QASP provides a method for the COR to monitor Contractor performance, and advise the Contracting Officer of unsatisfactory performance. The Contractor, not the Government, is responsible for management and quality control to meet the terms of this contract. The role of the Government is to conduct quality assurance to ensure that contract standards are achieved. If the contractor fails to meet the performance standards, the Government will take appropriate action under the Inspection clause (including a deduction from monthly invoices due to unsatisfactory performance).

Performance Objective	Standard and Acceptable Quality Level	Incentive/ Disincentive	Calculation
Satisfactorily performs all services set forth in the contract and each individual task or delivery order.	All required services are performed in accordance with the contract and resultant task/delivery order, and no more than two (2) customer complaints are received per week per the duration of the project.	Negative Incentive:  Low rating in CPARS; appropriate action under the inspection or termination clauses of the contract.	Number of valid customer complaints during the month.

#### 5. TELECOMMUNICATION STANDARDS

The following Overseas Building Office telecommunication standards shall be provided for all services.

- Communications Terminating Blocks
- Communications Backbone Cabling
- Communications Faceplates and Connectors
- Communications Cable Management
- Communications Horizontal Cabling

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RFP –  
Information  
Technology  
Infrastructure  
Remediation  
– Dedicated  
Internet  
Network  
(DIN)

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American Embassy San  
Salvador

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Scarpatti, Jaime R

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## Contents

RFP – INFORMATION TECHNOLOGY INFRASTRUCTURE REMEDIATION .....	3
1. SCOPE OF CONTRACT .....	3
2. PERIOD OF PERFORMANCE .....	3
3. PRICING.....	3
4. SITE SURVEY BY CONTRACTOR .....	3
5. SECURITY VETTING OF CONTRACTOR PERSONNEL .....	3
INFORMATION TECHNOLOGY INFRASTRUCTURE REMEDIATION - PERFORMANCE WORK STATEMENT .....	4
1. DESCRIPTION OF SERVICES .....	4
1.1. EQUIPMENT PROVIDED .....	4
1.2. TELECOMMUNICATION ROOMS.....	4
1.3 INDIVIDUAL DATA CABLE RUNS.....	5
2. WARRANTY .....	6
3. SECURITY .....	7
4. QUALITY ASSURANCE SURVEILLANCE PLAN .....	7
5. TELECOMMUNICATION STANDARDS.....	8

# **RFP – INFORMATION TECHNOLOGY INFRASTRUCTURE REMEDICATION**

## **1. SCOPE OF CONTRACT**

This is a Request for Proposal (RFP). The contractor shall provide replacement of all existing data lines servicing our Dedicate Internet Network (DIN), data patch panels, racks, transitional devices and battery backup systems servicing the U.S. Embassy in El Salvador. The vendor shall provide where necessary corresponding metal conduit to properly run and separate cabling transitioning from one space to another. The vendor will also be responsible for the removal and disposal of all old, unused cabling and infrastructures (copper, conduit).

## **2. PERIOD OF PERFORMANCE**

This contract will be in effect for the duration of the completion of the Information Technology Infrastructure Remediation project. The Embassy's operating hours are Monday thru Friday from 7:30 AM until 5:00 PM. All work must be completed during operating hours at the Embassy. Work outside these time frames must be coordinated a week in advance before the work starts.

## **3. PRICING**

The firm-fixed unit shall include all direct and indirect costs, profit, and required licenses and permits. Pricing for all other contractual requirements, for which pricing elements are not separately identified, are assumed to be part of the Contractor's normal cost of doing business and are included in the firm fixed unit prices.

Prices shall not include IVA. The US Embassy is exempt from paying the final consumer value added tax. IVA exemption card information will be provided separately with each task or delivery order.

The Government shall pay the Contractor for the life of a delivery order at rates effective when the delivery order was issued.

## **4. SITE SURVEY BY CONTRACTOR**

The contractor shall perform a full site survey to understand the scope of the expected work outlined in this RFP. The site survey conducted by the contractor will provide the final counts, distances for cable runs, and types of equipment being petitioned as part of this RFP. The site survey will be conducted on March 18, 2016 at 9:00 AM. Interested parties must submit visitor access information by 1:00 PM on March 16, 2016.

## **5. SECURITY VETTING OF CONTRACTOR PERSONNEL**

Upon contract award, all contractor personnel that will be accessing the Embassy will need to submit personal information in order for our Foreign Service National Security Team to conduct a background check. The process to vet contractor personnel will take approximately three weeks. Only vetted personnel will be allowed on our Embassy compound.

# INFORMATION TECHNOLOGY INFRASTRUCTURE REMEDIATION - PERFORMANCE WORK STATEMENT

## 1. DESCRIPTION OF SERVICES

This solicitation is for the replacement of all existing data lines for our Dedicate Internet Network (DIN) including data patch panels, racks, transitional devices and battery backup systems servicing the U.S. Embassy in El Salvador. The vendor shall provide where necessary corresponding conduit to properly run and separate cabling transitioning from one space to another. The vendor will be responsible for the *removal and disposal* of all old, unused cabling and conduit infrastructures to include old cabinets and equipment. Any equipment removed must be turned over to the Information Management Officer or his designated POC for the contracted work.

The Contractor shall ensure each terminated connection through the Embassy's network is of the highest quality possible and shall be uninterrupted, clear and with no data / signal loss above industry standards. The Contractor will provide a full set of cable test results showing, at a minimum, the pass/fail results of each cable, and the DB loss on each cable. Problems identified shall be remedied immediately, and the Contracting Officer Representative (COR) must be immediately informed of any problems, and their resolution.

The Contractor shall notify the COR and Ordering Official of any scheduled outage that will affect any of the existing services. The Contractor shall inform the COR at least 1 day in advance of the scheduled outage and provide a detailed explanation for the outage to include the amount of anticipated downtime.

The Contractor shall provide a detailed timeline that includes weekly tasks and milestones for the entire duration of this renovation project.

### ***1.1. EQUIPMENT PROVIDED***

All equipment and wiring provided by the Contractor shall be new and include up-to-date technology offered to the general public.

***Plenum*** UTP (copper) cabling must be CAT-6. Modular CAT-6 face plates shall be provided at all terminating points with the appropriate patch cable to the computer device. All cabling should be run in the appropriate conduit. Conduit might be in place already or shall be provided and installed by the contractor to meet Department cable distribution standards. UTP Wall mount cabinet 14U with ventilation and wall mount cabinet 32U with ventilation shall be provided. All cabinet shall have their respective locks. Cabling runs will support a minimum of 1Gbps on Client (horizontal runs).

APC Uninterrupted Power Supplies (UPS) shall be provided to support power outages for all equipment terminating in all telecommunication rooms.

### ***1.2. TELECOMMUNICATION ROOMS***

A considerable amount of work will be done updating infrastructure located in our primary telecommunication and intermediary rooms. All cable runs must be certified to comply with their respective Industry standard (i.e.

CAT-6) requirements, and performance reports of each run must be provided. All plenum cable runs must be identified by properly labeling them at all terminating points (cable, face plate, patch panels).

These rooms are located as following:

- Primary computer room is located in room number 207 in the Chancery building.
- Primary telecomm room is located in room number 149 in the Chancery building
- Chancery building's 1st, 2nd, 3rd, and 4th floor have an intermediary telecom room located in the elevator lobby rooms 109, 209, 309, and 409.
- Annex building's 1st, 2nd, 3rd, and 4th floor have an intermediary telecom room in each floor located in room 109, 209, 309, and 409.
- Ambassador's residence: electrical room 01.
- Cafeteria: Electrical room
- Commissary: Electrical room near loading dock
- Maintenance facility: Electrical room near maintenance bay
- Post office: electrical room
- MSG residence
- GSO Warehouse
- Gym

### ***1.3 INDIVIDUAL DATA CABLE RUNS***

The contractor shall provide individual cable runs to service the DIN computer systems located in the spaces referenced on the list below (additional spaces might be identified during a site survey. The contractor shall run plenum CAT-6 cabling in existing conduit or new conduit to each of these locations in accordance with Department of State guidelines and regulations. The National Electrical Code (NEC) limits the number of cables that can be placed in a conduit based on the type of cable. In the case of multi-conductor cables having 2 or more conductors, the conduit fill is limited to 40%. Telecommunication standards outlined below under Section 5 shall be followed for all cable runs.

Modular CAT-6 face plates shall be provided at all terminating points with the appropriate patch cable to the computer device (certification should be done through both patch cables, work station and patch panel). All cabling should be run in the appropriate conduit. Conduit might be in place already or shall be provided by the contractor to meet Department cable distribution standards.

***The contractor shall perform a full site survey to understand the scope of the expected work outlined in this RFP. The site survey conducted by the contractor will provide the final count, distances for cable runs, and types of equipment being petitioned as part of this RFP.***

***Additional CAT-6 cable runs and terminations shall be done by the contractor to provide appropriate quality of services to any additional location identified during the performance period of this contract, and shall include any extra or missed data drops previously missed during any of the surveys.***

#### **DIN CAT-6 Run ESTIMATES**

##### **1.3.1 Chancery Building**

*1st Floor*

*2nd Floor*

*3rd Floor*

### **1.3.2 Annex building**

*1st Floor*

*2nd Floor*

*3rd Floor*

*4th Floor*

### **1.3.3 GSO Building**

*DPO*

*Pouch room*

*Supply ROom*

### **1.3.4 Cafeteria Building**

*CLO / AEAES Office*

### **1.3.5 Commissary Building**

### **1.3.6 Facility Management**

### **1.3.7 GSO Warehouse**

### **1.3.8 MSG House**

## **2. WARRANTY**

2.1. The Contractor shall provide, at no additional cost to the Government, a warranty covering each Contractor-provided device. The minimum duration of the warranty shall be 2 years. The warranty shall commence upon the later of the following:

- a. Activation of the services
- b. Installation/delivery of the equipment

c. Accepted certification of the cables and network.

2.2. The Contractor shall stamp or mark the equipment delivered, or otherwise furnish notice with the equipment, of the existence of a warranty. Sufficient information shall be presented for supply personnel and users to identify warranted supplies. Warranty information shall include the terms and duration of the warranty and the name and telephone number to request warranty services.

2.3. The Contractor, by repair or replacement of the defective item, shall complete all warranty services within 72 hours of notification of the defect. Warranty service shall be deemed complete when the repaired or replaced item is in place and fully functioning.

2.4. The Contractor shall repair any other systems or networks cabling as a result of damage to any existing cabling infrastructure during the duration of the project.

### 3. SECURITY

The Contractor shall report any breach, or incident reasonably believed to have been a breach, which may have exposed Government data to the COR. The Contractor shall report to the COR any known or discovered security vulnerabilities which have the potential to compromise the confidentiality, or integrity of data resident on, transmitted or received by network devices, and any peripherals, firmware, or software related to the devices provided to the Embassy by the Contractor immediately, but not later than 24 hours following discovery.

### 4. QUALITY ASSURANCE SURVEILLANCE PLAN

This Quality Assurance Surveillance Plan (QASP) is designed to provide an effective surveillance method to promote effective Contractor performance. The QASP provides a method for the COR to monitor Contractor performance, and advise the Contracting Officer of unsatisfactory performance. The Contractor, not the Government, is responsible for management and quality control to meet the terms of this contract. The role of the Government is to conduct quality assurance to ensure that contract standards are achieved. If the contractor fails to meet the performance standards, the Government will take appropriate action under the Inspection clause (including a deduction from monthly invoices due to unsatisfactory performance).

<b>Performance Objective</b>	<b>Standard and Acceptable Quality Level</b>	<b>Incentive/ Disincentive</b>	<b>Calculation</b>
Satisfactorily performs all services set forth in the contract and each individual task or delivery order.	All required services are performed in accordance with the contract and resultant task/delivery order, and no more than two (2) customer complaints are received per week per the duration of the project.	Negative Incentive:  Low rating in CPARS; appropriate action under the inspection or termination clauses of the contract.	Number of valid customer complaints during the month.

## **5. TELECOMMUNICATION STANDARDS**

The following Overseas Building Office telecommunication standards shall be provided for all services.

- Communications Terminating Blocks
- Communications Backbone Cabling
- Communications Faceplates and Connectors
- Communications Cable Management
- Communications Horizontal Cabling

### SECTION 271119 – COMMUNICATIONS TERMINATION BLOCKS AND PATCH PANELS

#### PART 1 – GENERAL

##### 1.1 SUMMARY

- A. This Section includes materials but not limited to wires, connecting devices, and miscellaneous items associated with the work of this Section for a fully operational, compliant with applicable codes and standards telecommunication cabling systems.
- B. Related Sections include the following:
  - 1. Division 27 Section “Common Work Results for Telecommunications.”
  - 2. Division 27 Section “Grounding and Bonding for Communications Systems.”
  - 3. Division 27 Section “Identification for Communications Systems.”
  - 4. Division 27 Section “Communications Cabinets and Frames.”
  - 5. Division 27 Section “Data Communications Switches and Power Supplies.”
  - 6. Division 27 Section “Communications Faceplates and Connectors.”

##### 1.2 STANDARDS

- A. Standards applicable to this Section include the following:
  - 1. ANSI/TIA/EIA 568-C.1 and all addenda: Commercial Building Telecommunication Cabling Standard Part 1: General Requirements.
  - 2. ANSI/TIA/EIA 568-C.2 and all addenda: Commercial Building Telecommunication Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components.
  - 3. ANSI/TIA/EIA 568-C.3 and all addenda: Optical Fiber Cabling Components Standard.
  - 4. ANSI/TIA/EIA 606A and all addenda: Administration Standard for Commercial Telecommunications Infrastructure.
  - 5. ANSI/J-STD 607-A: Commercial Building Grounding (Earthing) and Bonding Requirement for Telecommunication.
  - 6. ANSI/NECA/BICSI 568: Standard for Installing Commercial Building Telecommunications Cabling.
  - 7. BICSI Information Technology Systems Installation Manual.

##### 1.3 SUBMITTAL

- A. Product Data: Submit manufacturers’ data for entrance protection including but not limited to: entrance protector panels, entrance protectors, termination fields.
- B. Shop Drawings: See Division 27 Section “Common Work Results for Telecommunications.”

- C. Installer Qualifications Documents: See Division 27 Section "Common Work Results for Telecommunications."

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: See Division 27 Section "Common Work Results for Telecommunications."
- B. Source Limitations: Obtain telecommunication cabling system such as cable, jack, termination blocks, patch panels, path cords etc. through one single manufacture. Match components and interconnection for optimum future performance.
- C. Comply with the National Electrical Code (NFPA 70).

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. See Division 27 Section "Common Work Results for Telecommunications."

#### 1.6 PROJECT CONDITIONS

- A. See Division 27 Section "Common Work Results for Telecommunications."

#### 1.7 COORDINATION

- A. See Division 27 Section "Common Work Results for Telecommunications."

#### 1.8 EXTRA MATERIAL

- A. Furnish extra materials identified below that match products installed. Package with protective covering for storage, and identify with labels describing contents.
  - 1. Patch-Panel Units: Two of each type for every 6 installed, but no less than 1.
  - 2. Connecting Blocks: Two of each type for every 25 installed, but no less than 1.

### PART 2 – PRODUCT

#### 2.1 SYSTEM REQUIREMENT

- A. General: Equipment and components shall not be intermixed between different manufactures.
- B. Allowance for change and expansion:

1. Horizontal Distribution Expansion: Provide 25 percent minimum for termination devices in TR.

## 2.2 MOUNTING ELEMENT

- A. Backboards: A-C grade, fire-retardant treated plywood, 19-mm thick, 2440mm high unless otherwise noted, capable of supporting attached equipment. Paint backboard in light color matching with other walls, except portions with stamps indicating fire rating on plywood; stamps shall remain visible at all time.

## 2.3 TERMINATION EQUIPMENT

### A. Fiber Optic Patch Panel.

1. Provide fiber patch panels as indicated in Drawings.
2. Provide splice trays within cabinets suitable to house required number of pigtail splices, if required by termination method used. Each fiber optic interconnect center shall consist of sufficient number of splice trays and splices (if required), interconnection sleeves, and connectors to minimally terminate specified number of fiber strands.
3. Equip fiber termination panels to provide slack and fiber management.
4. Furnish fiber termination panels with fully populated pre-assembled multi-mode Duplex SC styles adapter plates.
5. Provide two rack unit of horizontal cable management for every two rack units of patch panel height.

### B. Data Patch Panel for UTP (copper) cables.

1. Modular patch panels shall be either 24 or 48-port as indicated on Drawings. Each modular patch panel shall contain quantity of CAT6 8-position/8-conductor (RJ-45) connector.
2. Modular patch panels shall be 483mm rack mountable units.
3. Modular patch panels shall be used to terminate all Data cables (ULAN and SPARE) and spare for future expansion.
4. Provide dust covers for connectors to protect from dust and debris.
6. Provide two rack unit of horizontal cable management for every two rack units of patch panel height.

### C. Voice Termination Hardware.

1. Manufacturer: NORDX – BIX Cross-Connect System.
2. Provide voice termination hardware in quantities adequate to terminate all voice backbone and station cabling plus expansion identified in Article on “System Requirement.”
3. Pre-manufacture assemblies including BIX distribution connectors, BIX mounted hardware, and wire management.

### PART 3 – EXECUTION

#### 3.1 INSTALLATION - GENERAL

- A. Make terminations only at indicated outlets, frames, and cross-connect and patch panels.
- B. Group connecting hardware for cables into separate logical fields.

#### 3.2 INSTALLATION IN EQUIPMENT ROOMS AND TELECOMMUNICATION ROOMS

##### A. Frames:

1. For BIX blocks incoming cable shall be dressed from the bottom of the termination field.
2. Install BIX on plywood backboards as indicated on Drawings.
3. Mount BIX termination blocks and other connecting hardware on backboards, unless otherwise indicated. Route cable at backboards horizontally along runway until it reaches termination block column on which it is terminated. Once at termination, route cable vertically to termination block. Tie-wrap all similar routed and similar cables together with Velcro tie-wrap and attach to D-ring or wire management in the Telecommunication Rooms (TRs) and Equipment Rooms (ERs).
4. Wall mount voice termination hardware on plywood backboard.

##### B. Patch Panels:

1. Use patch panels to terminated cables entering ERs and TRs unless otherwise indicated.
2. Install voice patch panels within cabinets.

#### 3.3 GROUNDING

- A. Comply with Division 27 Section "Grounding and Bonding for Communications Systems."

END OF SECTION 271119

SECTION 271123 – COMMUNICATIONS CABLE MANAGEMENT AND LADDER RACK

PART 1 – GENERAL

1.1 SUMMARY

- A. This Section includes cable management materials, equipment, and installation practices required for a fully operational, certified telecommunication cabling system compliant with all applicable codes and standards.
- B. Related Sections include the following:
  - 1. Division 26 Section(s) on common work results for electrical and Communications for supports, anchors, and identification products.
  - 2. Division 26 Section on raceways and boxes for pathways containing telecommunications cabling.
  - 3. Division 26 Section on cable trays for pathways containing telecommunications cabling.
  - 4. Division 26 Section on vibration and seismic controls for electrical systems.
  - 5. Division 27 Section “Common Work Results for Telecommunications.”
  - 6. Division 27 Section “Grounding and Bonding for Communications Systems.”
  - 7. Division 27 Section “Communications Cabinets and Frames.”
  - 8. Division 27 Section “Communications Termination Blocks and Patch Panels.”

1.2 STANDARDS

- A. Standards applicable to this Section include the following:
  - 1. ANSI/TIA/EIA 568-C.1 and all addenda: Commercial Building Telecommunication Cabling Standard Part 1: General Requirements.
  - 2. ANSI/TIA/EIA 569-B and all addenda: Commercial Building Standard for Telecommunication Pathways and Spaces.
  - 3. ANSI/NECA/BICSI 568: Standard for Installing Commercial Building Telecommunications Cabling.
  - 4. ANSI/J-STD-607A: Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications.
  - 5. BICSI Information Technology Systems Installation Manual.

1.3 SUBMITTAL

- A. Product Data: Submit manufacturers’ data.
- B. Shop drawings: See Division 27 Section “Common Work Results for Telecommunications.”

- C. Qualifications Documents: See Division 27 Section “Common Work Results for Telecommunications.”

#### 1.4 QUALITY ASSURANCE

- A. Contractor Qualifications: See Division 27 Section “Common Work Results for Telecommunications.”
- B. Obtain cable management and ladder rack and all associated accessories through one single manufacturer.
- C. Match components and interconnection for optimum future performance.
- D. Comply with the National Electrical Code (NFPA 70).

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. See Division 27 Section “Common Work Results for Telecommunications.”

#### 1.6 COORDINATION

- A. See Division 27 Section “Common Work Results for Telecommunications.”

### PART 2 – PRODUCT

#### 2.1 CABLE MANAGEMENT AND LADDER RACKS

- A. Basis of Design: Provide equipment and components from the following manufacturer or manufacturer approved by Project Director/COR:
  - 1. Chatsworth
- B. Ladder Racks:
  - 1. Racks shall have maximum load with minimal deflection is 200 kg/m when supported every 1500 mm.
  - 2. Construct of rectangular steel tubing.
  - 3. Field constructed accessories such as transitions, splices, bends are prohibited.
  - 4. Provide manufactured junction splices to join pieces of ladder rack.
  - 5. Ladder rack assembly shall be UL listed.

- C. D-Rings: Metal
    - 1. Size: 50 mm minimum.
    - 2. Corrosion-resistant and fire-resistant.
  - D. Cable Straps: Velcro; manufactured for specific use of bundling cable.
- 2.2 J-HOOKS
- A. Provide equipment from the following manufacturer or manufacturer approved by the Project Director/COR:
    - 1. ERICO Caddy Cable Cat Support System
  - B. Base: Wide.
  - C. Finish: Galvanized.

### PART 3 – EXECUTION

#### 3.1 EXAMINATION

- A. Examine pathway elements intended for cables. Check raceways, cable trays, and other elements for compliance with space allocations, installation tolerances, hazards to cable installation, and other conditions affecting installation. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 INSTALLATION

- A. Comply with requirements ANSI/TIA/EIA 568-B.1, B.2, and B.3 and EIA 569-B standards.
- B. Provide sufficient support for ladder racks and installed cables.
- C. J-Hooks:
  - 1. Use of J-hooks is limited to transitions from cable tray to conduit drops. J-hooks are not permitted in new construction of office buildings; any other application must be approved by Project Director/COR based upon input from OBO/PDCS/DE/EE.
  - 2. Install at 1.22m or 1.52m interval.
- D. D-rings: D-Rings may be used at backboards to route and cable inside telecommunications rooms and equipment rooms.
- E. Bridle Rings: Use is not permitted.

F. Junctions:

1. Junctions for ladder rack shall be used to allow transitions in various directions.
2. Junctions for ladder rack shall be constructed of solid tubular steel.

G. Expansion Capacity:

1. Horizontal Distribution Expansion: Provide 25 percent minimum for pathways, number of outlets and termination devices in TR.
2. Backbone Expansion: Provide 50 percent minimum of pathways.

H. Provide horizontal wire management above and below each copper and fiber patch panel and switches.

I. Provide horizontal cable management on back of each copper patch panel.

J. For equipment cabinets/enclosures, provide vertical cable management extending full height of rack, including both sides.

K. Radii and Bends:

1. Provide radii and bends for smooth cable transitions for turns and drops.
2. Radii and bends shall be constructed of the same material as the ladder rack.

L. Install cable ties loosely so that they do not damage or deform cable. Ties shall be able to spin around bundled cable.

M. Cables shall not be bundled with tape, rope, rubber bands, or similar fashion.

N. Cable Straps: Use in TR and ER from entry into room to cabinet or termination point.

### 3.3 GROUNDING

A. Bond all ladder rack and other metallic hardware used for communication distribution to nearest grounding busbar. Ensure that bonding breaks through paint to bare metallic surface of all painted metallic hardware. Refer to Division 27 Section "Grounding and Bonding for Communications Systems."

END OF SECTION 271123

## SECTION 271305 – COMMUNICATIONS BACKBONE CABLING

### PART 1 – GENERAL

#### 1.1 SUMMARY

- A. This Section includes backbone cabling for fully operational telecommunication system.
- B. Related Sections include the following:
  - 1. Division 27 Section “Common Work Results for Telecommunications.”
  - 2. Division 27 Section “Communications Faceplates and Connectors.”
  - 3. Division 27 Section “Identification for Communications Systems.”
  - 4. Division 27 Section “Communications Cabinets and Frames.”
  - 5. Division 27 Section “Data Communications Switches and Power Supplies.”

#### 1.2 STANDARDS

- A. Standards applicable to the Section include the following:
  - 1. ANSI/TIA/EIA 568-C.1 (including addenda): Commercial Building Telecommunication Cabling Standard Part 1: General Requirements.
  - 2. ANSI/TIA/EIA 568-C.2 (including addenda): Commercial Building Telecommunication Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components.
  - 3. ANSI/TIA/EIA 568-C.3 (including addenda): Optical Fiber Cabling Components Standard.
  - 4. ANSI/TIA/EIA 569-B (including addenda): Commercial Building Standard for Telecommunication Pathways and Spaces.
  - 5. ANSI/TIA/EIA 598: Optical Fiber Color Coding.
  - 6. ANSI/TIA/EIA 606A (including addenda): Administration Standard for Commercial Telecommunications Infrastructure.
  - 7. ANSI/J-STD 607-A: Commercial Building Grounding (Earthing) and Bonding Requirement for Telecommunication.
  - 8. ANSI/TIA/EIA 526-14A: Optical Power Loss Measurements of Installed Multimode Fiber Cable Plant – OFSTP-14.
  - 9. ANSI/TIA/EIA 758A (including addenda): Customer-Owned Outside Plant Telecommunications Cabling Standard.
  - 10. ANSI/NECA/BICSI 568: Standard for Installing Commercial Building Telecommunications Cabling.

#### 1.3 SUBMITTALS

- A. Product Data: Submit manufacturer’s literature and sample of telecommunications installation materials.

- B. Shop Drawings: See Division 27 Section "Common Work Results for Telecommunications."
- C. Installer Qualification Document: See Division 27 Section "Common Work Results for Telecommunications."

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: See Division 27 Section "Common Work Results for Telecommunications."
- B. Source limitations: Obtain telecommunication cabling system such as cable, jack, termination blocks, patch panels, and patch cords through one single manufacture. Match components and interconnection for optimum future performance.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. See Division 27 Section "Common Work Results for Telecommunications."

#### 1.6 PROJECT CONDITIONS

- A. See Division 27 Section "Common Work Results for Telecommunications."

#### 1.7 COORDINATION

- A. See Division 27 Section "Common Work Results for Telecommunications."
- B. Coordinate with other trades for installation of backbone cabling such as mechanical, electrical, and structural.

### PART 2 – PRODUCTS

#### 2.1 OUTSIDE PLANT OPTICAL FIBER DISTRIBUTION CABLE

- A. Outside Plant Multimode OM3 (50/125  $\mu\text{m}$  laser-optimized) loose tube, fiber optic backbone cable shall be used for data connectivity.
- C. Core shall consist of loose tubes around central dielectric strength member. Cable shall contain water-blocking yarns wrapped with water swellable tapes. Jacket shall be medium density PE jacket.

- D. Maximum attenuation of fiber optic cable:
  - 1. 850 nanometers: 2.3 dB/km
  - 2. 1300 nanometers: 0.6 dB/km
- E. Minimum bandwidth of fiber optic cable:
  - 1. 850 nanometers: 1500 MHz-km
  - 2. 1300 nanometers: 500 MHz-km
- F. All finished fibers shall be color-coded by manufacturer for identification.
- G. Cable Strength and Durability: Cable shall be able to:
  - 1. Withstand short-term tensile load of 2700 N (600 lb), with maximum elongation of less than 0.5 percent and no breakage of fibers. Long-term tensile load capacity shall be minimum of 890 N (200 lb).
  - 2. Withstand twisting of 360 degrees over length of 2 meters for at least 10 cycles per minute.
  - 3. Withstand storage and operating temperatures of minus 40 deg. C to plus 70 deg C.
  - 4. Withstand compressive force of 600 N/cm without breakage, and with no attenuation increase after force is removed.

## 2.2 OUTSIDE PLANT COPPER DISTRIBUTION CABLE

- A. Distribution cable for telephone system connectivity throughout campus shall be multipair OSP PE-39 or PE-89 unshielded twisted pair within single sheath.
- B. Conductors: Solid 0.5 sq. mm, annealed bare copper.
- C. Insulation: Either solid polyolefin or foamed polyolefin with solid covering of polyolefin.
- D. Fill cable core with waterproofing gel filled compound, and wrap in non-hygroscopic core tape.
- E. Shielding: Steel Aluminum black Polyethylene (STALPETH).
- F. Cable Jacket: Black polyethylene with sequentially printed metal markers at regular intervals.
- G. Air-filled cables are not permitted.
- H. Cables shall comply with ANSI/ICEA S-80-576 for standard US color codes and binder color-code integrity.
- I. All cables shall be American Standard type.

### 2.3 INSIDE BUILDING OPTICAL FIBER DISTRIBUTION CABLE

- A. Cable shall be UL listed.
- B. Fiber Construction: Interconnected tight-buffered, multimode, OM3 laser optimized with core/cladding size of 50/125 microns.
- C. Core shall consist of tight buffer around central dielectric strength member. Cable shall contain strength members to satisfy mechanical and environmental specifications provided herein.
- D. Maximum attenuation of cable:
  - 1. 850 nanometers: 2.3 dB/km
  - 2. 1300 nanometers: 0.6 dB/km
- E. Minimum bandwidth of cable:
  - 1. 850 nanometers: 1500 MHz-km
  - 2. 300 nanometers: 500-MHz-km.
- F. All finished fibers shall be color coded by manufacturer for identification. Provide field terminations or spliced pigtails to terminate fibers.
- G. Nominal connector loss shall not be greater than 0.25 dB per mated pair.
- H. Short-term tensile load capacity shall be 1300 N, with maximum elongation of less than 0.5 percent, and no breakage of fibers for cables with 12 strands or more.
- I. Short-term tensile load capacity shall be 650 N, with 0.5 percent maximum elongation, and no breakage of fibers for cables with less than 12 strands.

### 2.4 INSIDE BUILDING COPPER BACKBONE CABLE

- A. Backbone Cable for Telephone: Copper-unshielded twisted pair, Category 3.
- B. Cable shall be UL listed.
- C. Conductors: 0.5 sq. mm solid bare copper-paired thermoplastic insulated conductors, formed into binder groups of 25 pairs, and assembled to form single compact cored covered by protective sheath.
- D. Sheath: Underlying metallic shield, with one or more layers on dielectric materials applied over core.
- E. Cable shall comply with NSI/ICEA S-80-576 color for standard US color codes and binder color code integrity.

## 2.5 COAXIAL BACKBONE CABLE

- A. Coaxial cable elements shall have 75-ohms nominal impedance. Coaxial cable shall bear plenum- or riser-rated markings for environment in which they are installed.
- B. Satellite Antenna Cable: .500 or RG-11/U as indicated on Drawings. Cellular-polyethylene dielectric, tinned-copper braid shield with 100 percent shielding factor, 1.0 sq. mm solid copper conductor; and PVC jacket.
- C. CATV Indoor Trunk Cable: RG-11/U, cellular-polyethylene dielectric, bare-copper braid shield with 95 percent minimum shielding factor, 2.5 mm, solid bare-copper conductor.

## PART 3 – EXECUTION

### 3.1 INSTALLATION

- A. Install equipment according to manufacturer's directions, approved shop drawings, and referenced standards identified in this Section.
- B. Install cables using techniques, practices, and methods that are consistent with rating of components, and that ensure performance of completed and linked signal paths, end-to-end.
- C. Install cables without damaging conductors, shield, or jacket.
- D. Do not bend cables, in handling or in installing, to smaller radius than minimums recommended by manufacturer's installation recommendation.
  - 1. Outside Plant Optical Fiber Distribution Cable: Minimum static or no load-bending radius for cable shall be no greater than 10 times the outside diameter of the cable.
  - 2. Inside Optical Fiber Distribution Cable:
    - a. Minimum static or no-load bending radius shall be less than 10 times the outside diameter of the cable.
    - b. Minimum dynamic or loaded bending radius shall be less than 20 times the outside diameter of the cable.
- E. Pull cables without exceeding cable manufacturer's recommended pulling tensions. Pull cables simultaneously if more than one is being installed in same raceway.
  - 1. Use pulling compound or lubricant if necessary. Use compounds that will not damage conductor or insulation. Lubricant shall be viscous gel or colorless liquid with no odor. Use lubricants which deter rodents and insects.
  - 2. Use pulling means, including fish tape, cable, rope, and basket weave wire or cable grips, which will not damage media or raceway.
  - 3. Remove cable from pathways that has been damaged (tears in cable sheath) during installation. Replace damaged cable with new cable within same raceway.

F. Outside Plant Optical Fiber Distribution Cable Installation:

1. Connect fibers utilizing field-installed terminations or spliced pigtails.
2. Only fusion splicing is permitted.

G. Outside Plant Copper Distribution Cable Installation:

1. Configure cable groups in separate color-coded binder groups. Identify binder groups and individual pairs using industry standard color codes.
2. Do not splice cables.

H. Inside Building Optical Fiber Distribution Cable Installation:

1. Use either plenum- or riser-rated cabling as required by installation environment and the National Electrical Code (NFPA 70). Use plenum-rated cable within areas designated as air plenums.

I. Inside Building Copper Backbone Cabling Installation:

1. Do not splice cable.
2. Use either plenum- or riser-rated cabling, as required by installation environment and the National Electrical Code (NFPA 70). Use plenum-rated cable within areas designated as air plenums.
3. Copper cable installed within or under grade floor slab for intra-building connectivity shall utilize outside plant (OSP) cable due to wet environment. Protectors are not required.

### 3.2 FIELD QUALITY CONTROL

A. Contractor shall perform pre-qualification tests prior to Government acceptance testing.

B. Acceptance Testing: Government may procure services of independent test firm to perform acceptance testing of each section or infrastructure, and to inspect installation to ensure work has been performed in accordance with contract requirements.

1. Acceptance testing will not begin until all work is completed. No construction which limits access or which produces adverse conditions that can adversely affect test result are permitted. For example, work which produces dust shall be completed prior to testing. Contractor shall have completed all work on cable plant or in telecommunications spaces prior to acceptance.
2. Testing parameters are as follows:
  - a. Copper cable plant will use Level III tester for conformance with performance requirement of TIA/EIA 568-B for all category levels include CAT3 UTP cable. UTP copper backbone/riser cables testing will be for continuity, length, polarity, and wire map. Coax cables testing will be for continuity and length.

- b. Multimode Fiber optic cable plant testing will use instrumentation based on TIA/EIA 526.14A, Method B, for Multimode fiber cable testing. Testing will be bi-directional at both operating windows using power optical loss test equipment set such as Fluke DSP4300. OTDR traces of fiber optic cables may be performed.
3. Contractor shall be present during acceptance testing to replace/repair all work that fails.
4. Contractor is financially responsible for all costs associated with repair or replacement of cable, terminations, equipment, and other associated items which are identified as failing during acceptance testing.

END OF SECTION 271305



## SECTION 271505 – COMMUNICATION HORIZONTAL CABLING

### PART 1 – GENERAL

#### 1.1 SUMMARY

- A. This Section includes UTP cabling, fiber cabling, coaxial cabling, and terminating devices, required for a fully operational, telecommunication system conforming to referenced standards.
- B. Related Sections include the following:
  - 1. Division 07 Section on penetration firestopping for firestopping materials and installation at penetrations through walls, ceilings, and other fire-rated elements.
  - 2. Division 26 Section(s) on common work results for electrical and communications for supports, anchors, and identification products.
  - 3. Division 26 Section on wiring devices for devices installed in boxes and for floor-box service fittings.
  - 4. Division 26 Section on raceways and boxes for electrical systems for pathways containing telecommunications cabling.
  - 5. Division 26 Section on cable trays for pathways containing telecommunications cabling.
  - 6. Division 27 Section “Common Work Results for Telecommunications.”

#### 1.2 STANDARDS

- A. Standards applicable to the Section include the following:
  - 1. ANSI/TIA/EIA 568-C.1 and all addenda: Commercial Building Telecommunication Cabling Standard Part 1: General Requirements.
  - 2. ANSI/TIA/EIA 568-C.2 and all addenda: Commercial Building Telecommunication Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components.
  - 3. ANSI/TIA/EIA 568-C.3 and all addenda: Optical Fiber Cabling Components Standard.
  - 4. ANSI/TIA/EIA – 569-B and all addenda: Commercial Building Standard for Telecommunication Pathways and Spaces.
  - 5. ANSI/TIA/EIA 598: Optical Fiber Color Coding.
  - 6. ANSI/TIA/EIA 606A and all addenda: Administration Standard for Commercial Telecommunications Infrastructure.
  - 7. ANSI/TIA/EIA 526-14A: Optical Power Loss Measurements of Installed Multimode Fiber Cable Plant – OFSTP-14A.
  - 8. ANSI/NECA/BICSI 568: Standard for Installing Commercial Building Telecommunications Cabling.
  - 9. BICSI Information Technology Systems Installation Manual.

1.3 SUBMITTAL

- A. Product Data: Provide manufacturer's literature and sample of telecommunications installation materials.
- B. Shop Drawings: See Division 27 Section "Common Work Results for Telecommunications."
- B. Qualification Documents: See Division 27 Section "Common Work Results for Telecommunications."

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: See Division 27 Section "Common Work Results for Telecommunications."
- B. Source limitations: Obtain telecommunication cabling system such as cable, jack, termination blocks, patch panels, and path cords through one single manufacturer. Match components and interconnection for optimum future performance.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. See Division 27 Section "Common Work Results for Telecommunications."

1.6 PROJECT CONDITIONS

- A. See Division 27 Section "Common Work Results for Telecommunications."

1.7 COORDINATION

- A. See Division 27 Section "Common Work Results for Telecommunications."

1.8 EXTRA MATERIAL

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents:
  - 1. Extra Materials:
    - a. Cable: 300 meters of each type used for Project. Furnish on separate reels for each type/color.
    - b. One complete set of termination tools for cabling types included in this Section. Furnish in single carrying case.

1.9 CONTRACTOR-FURNISHED GOVERNMENT-INSTALLED (CFG) MATERIAL

A. Furnish the materials identified below as CFG materials. Most of this material will be installed by the Government as part of the Project, though some of it as determined by the Government will be kept by the Government as extra material.

1. Patch Cords:

- a. Electrical performance of LAN patch cords shall equal electrical performance of cable used within system being patched interconnected, or cross-connected.
- b. Fiber Patch Cords: OM3, conforming to cable transmission performance standards in ANSI/TIA/EIA568B-B.3.1. Table 1.
- c. Same manufacturer furnishing UTP jacks and cable shall furnish UTP patch cords.
- d. Same manufacturer furnishing fiber optic connections shall furnish fiber optic patch cords.
- e. Furnish in quantities for different types and colors as identified in Table 1.9, "Patch Cords.". Furnish cords in separate boxes for each cord type/length/color.

TABLE 1.9 – PATCH CORDS

LOCATION	LENGTH	TYPE	
		<sup>A B</sup> UTP (copper)	<sup>C D</sup> Fiber
TR	0.45 m (1-1/2 ft)	orange – 50% blue – 50% green – 25% yellow – 25%	
	1.0 m (3 ft)	orange – 50% blue – 50% green – 25% yellow – 25%	150%
Desk	2.0 m (7 ft)	orange – 50% green – 25% yellow – 25%	
	3.0 m (10 ft)	blue – 50% green – 25% yellow – 25%	

<sup>A</sup> TR UTP: Percent in relation to patch panel capacity.

<sup>B</sup> Desk UTP: Percent in relation to desk count.

<sup>C</sup> TR Fiber SC-to-Data Patch Cords: Percent of this type of fiber patch cord in relation number of data switch fiber ports.

<sup>D</sup> TR Fiber SC-to-SC Patch Cords: Additionally, for each TR furnish 10 of this type of fiber patch cord at 1-m length.

## PART 2 – PRODUCT

### 2.1 SYSTEM REQUIREMENT

- A. General: Equipment and components shall not be intermixed between different manufactures.
- B. Expansion Capacity:
  - 1. Horizontal Distribution Expansion: Provide 25 percent minimum for pathways, number of outlets and termination devices in TR.

### 2.2 TELECOMMUNICATION CABLE

- A. Fiber Optic Horizontal Distribution Cable for Future: As indicated on Drawings.
  - 1. Fiber optic station cables shall be rated OFNP (Optical Fiber Nonconductive Plenum) per installation environment as defined by the National Electrical Code (NFPA 70).
  - 2. Fiber construction shall be tight-buffered multi-mode 850nm OM3 laser-optimized with core/cladding size of 50/125µm.
  - 3. Fiber construction shall consist of two fibers in single jacket, duplex tight-buffered cables with outer jacket around full fiber jacket.
  - 4. Maximum Cable Attenuation:
    - a. 850 nanometers: 2.3 dB/km.
    - b. 1300 nanometers: 0.6 dB/km.
  - 5. Minimum Cable Bandwidth:
    - a. 850 nanometers: 1500MHz-km.
    - b. 1300 nanometers: 500MHz-km.
  - 6. Outer jacket of fiber shall be white. Terminate fibers utilizing field-installed SC connectors or spliced pigtails. Nominal connector loss using either termination method shall not be greater than 0.40 dB per mated pair.
  - 7. Fiber cable shall be able to withstand short-term tensile load of 1600 N with maximum elongation of less than 0.5 percent with no breakage of fibers. Maximum long-term tensile load shall be minimum of 300 N.
- B. UTP Horizontal Distribution Cable for Voice, Data and Spare.
  - 1. Horizontal distribution cables for voice, data and two spares shall be UL Listed cable that meets or exceeds TIA/EIA 568B-2 Category 6 specification for performance at 250 Mhz.
  - 2. Where required, horizontal cable shall be marked CMP for use within inside building return air plenum as defined by the National Electrical Code (NFPA 70). For CMP (plenum type) cable, all 4-cable pairs shall be insulated with FEP.

3. Cables shall be distinguished by different color sheaths for each purpose. Voice (telephone) cable shall be blue. Data (ULAN) cable shall be orange. Spare cables shall be green and yellow.

## 2.3 COAXIAL TRANSMISSION COMPONENTS

- A. Cable: Coaxial cable elements have 75-ohms nominal impedance. Coaxial cable shall bear plenum or riser rated markings for environment in which they are installed.
  1. CATV Indoor Branch Cable: RG-6/U quad-shielded, cellular-polyethylene dielectric, bare-copper braid shield with 95 percent minimum shielding factor, 1.0 mm<sup>2</sup> solid copper-clad-steel conductor.
- B. Coaxial Connector: Type F, 75-Ohms, unless otherwise noticed.
- C. Signal Strength: Frequency range is 5 MHz to 1GHz

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Examine pathway elements intended for cables. Check raceways, cable trays, and other elements for compliance with space allocations, installation tolerances, hazards to cable installation, and other conditions affecting installation. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Installation Standards: ANSI/TIA/EIA 568-B.1, B.2, and B.3 and 569-B standards.
- B. Wiring Method: Install wiring and optical fiber in raceway and cable tray except within consoles, cabinets, desks, and counters and except in accessible ceiling spaces and in gypsum board partitions where unenclosed wiring method may be used. Use UL-listed plenum cable in environmental air spaces, including plenum ceilings. Conceal raceway and cables except in unfinished spaces.
- C. Install cables using techniques, practices, and methods that are consistent with Category 3 and 6 rating of components and that ensure Category 3 and 6 performance of completed and linked signal paths, end to end.
- D. Install cables without damaging conductors, shield, or jacket.
- E. Do not bend cables, in handling or in installing, to smaller radius than minimums recommended by manufacturer's installation recommendation.

1. Fiber Optic Horizontal Distribution Cable: Minimum static or no-load bending radius for cable shall be no greater than 10 times outside diameter of cable. Minimum dynamic or loaded bending radius shall be no greater than 20 times outside diameter of cable.
- F. Service Loop: Provide 300 mm-service loop in workstation outlet box or above ceiling at workstation location.
- G. Cable Pulling: Pull cables without exceeding cable manufacturer's recommended pulling tensions. Pull cables simultaneously if more than one is being installed in same raceway.
  1. Use pulling compound or lubricant if necessary. Use compounds that will not damage conductor or insulation. Lubricant shall be viscous gel or colorless liquid with no odor. Use lubricants, which deter rodents and insects.
  2. Use pulling means, including fish tape, cable, rope, and basket weave wire or cable grips, that will not damage media or raceway.
  3. Cable that has been damaged (tears in cable sheath) during installation shall be removed from pathways. Replace damaged cable with new cable within same raceway.
- H. Install exposed cables parallel and perpendicular to surfaces or exposed structural members and follow surface contours where possible.
  1. Secure and support cables at intervals not exceeding 760 mm and not more than 150 mm from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
- I. Wiring within Telecommunications Rooms and Enclosures: Provide conductors of adequate length. Train conductors to terminal points with no excess. Use lacing bars to restrain cables, to prevent straining connections, and to prevent bending cables to smaller radius than minimums recommended by manufacturer.
- J. Make splices, taps, and terminations only at indicated outlets, terminals, and cross-connect and patch panels.
  1. UTP Horizontal Distribution Cable for Voice, Data and Spare: Cable shall be home run to TR; splices are not permitted.

### 3.3 IDENTIFICATION

- A. Comply with applicable requirements in Division 27 Section "Identification for Communications Systems" and TIA/EIA-606A standard.

### 3.4 FIELD QUALITY CONTROL

- A. Pre-Qualification Tests: Perform pre-qualification tests prior to Government acceptance testing.

- B. Testing: The Government may procure services of independent test firm to perform acceptance testing of each section of infrastructure and inspect installation to ensure work has been performed in accordance with contract requirements.

END OF SECTION 271505



## SECTION 271543 – COMMUNICATIONS FACEPLATES AND CONNECTORS

### PART 1 – GENERAL

#### 1.1 SUMMARY

- A. The work covered under this section consists of faceplates and connectors for telecommunications cabling systems.
- B. Related Sections include the following:
  - 1. Division 07 Section on penetration firestopping.
  - 2. Division 26 Section on raceways and boxes.
  - 3. Division 27 Section “Common Work Results for Telecommunications.”
  - 4. Division 27 Section “Identification for Communications Systems.”
  - 5. Division 27 Section “Communications Termination Blocks and Patch Panels.”
  - 6. Division 27 Section “Communications Backbone Cabling.”
  - 7. Division 27 Section “Communications Horizontal Cabling.”

#### 1.2 STANDARDS

- A. Standards applicable to this Section include the following:
  - 1. ANSI/TIA/EIA 568-C.1 and all addenda: Commercial Building Telecommunication Cabling Standard Part 1: General Requirements.
  - 2. ANSI/TIA/EIA 568-C.2 and all addenda: Commercial Building Telecommunication Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components.
  - 3. ANSI/TIA/EIA 568-C.3 and all addenda: Optical Fiber Cabling Components Standard.
  - 4. ANSI/NECA/BICSI 568: Standard for Installing Commercial Building Telecommunications Cabling.
  - 5. ANSI/TIA/EIA 606-A: Labeling Standards.
  - 6. BICSI Information Technology Systems Installation Manual.

#### 1.3 SUBMITTALS

- A. Product Data: Provide manufacture’s product literature of faceplates and connectors.
- B. Qualification Documents: See Division 27 Section “Common Work Results for Telecommunications.”

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: See Division 27 Section "Common Work Results for Telecommunications."
- B. Comply with the National Electrical Code (NFPA 70).
- C. Obtain faceplates and connectors through one source from a single manufacturer.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. See Division 27 Section "Common Work Results for Telecommunications."

1.6 COORDINATION

- A. See Division 27 Section "Common Work Results for Telecommunications."
  - 1. In addition, coordinate locations of outlets power, and other utilities.

1.7 EXTRA MATERIAL

- A. Furnish extra materials described below that match products installed. Package with protective covering for storage, and identify with labels describing contents.
  - 1. Outlet Assemblies: 10 percent of each type for every 25 installed, but no less than one.
  - 2. One complete set of termination tools for copper and fiber.

PART 2 – PRODUCT

2.1 GENERAL

- A. Install dust covers to prevent dirt/debris from entering ports, modular jacks, adapters, and connectors.

2.2 FACEPLATES

- A. Manufacturers: Provide faceplates by one of the following manufacturers, or manufacturer approved by Project Director/COR.
  - 1. Panduit
  - 2. AMP

- B. Color and Finish Coordination: Provide same color and finish for workstation communication faceplate as faceplate used for electrical outlet unless stated otherwise.
- C. Mounting Configurations:
  - 1. Equip faceplates with screw holes with screw retention tabs spaced for single gang openings.
    - a. Each faceplate shall be supplied with 25 mm (1-inch) long screws.
  - 2. Faceplates on vertical surfaces shall be vertically oriented.
  - 3. Workstation communication faceplate for wall mounted outlet, or modular furniture outlet shall utilize angled faceplate with 45-degree exit.
  - 4. Building Interior Telephone Outlet: Wall-mounted assembly for wall-mounted telephone sets.
    - a. Acceptable Products: CommScope 630B8 (8p8c); no exceptions permitted
  - 5. Building Exterior Telephone Outlet: Wall-mounted assembly.
- D. Floor-mounted access box shall conform to the following:
  - 1. Provision boxes as indicated on Construction Drawings.
  - 2. Size floor box to maintain adequate working space within box.
  - 3. Provide outlets at indicated on Construction Drawings. Connector colors shall be as follows:
    - a. Modular jack connectors for VOICE shall be blue.
    - b. Modular jack connectors for DATA (ULAN) shall be orange.
    - c. Modular jack connectors for SPARE 1 shall be green.
    - d. Modular jack connectors for SPARE 2 shall be yellow.

## 2.3 CONNECTORS

- A. Manufacturers: Provide connectors from one of the following manufacturers or manufacturer approved by the Project Director/COR.
  - 1. Panduit
  - 2. AMP
- B. Copper Connectors:
  - 1. Telephone Jack: Wall-mounted assemblies consisting of RJ-45 modular jack with 8-positions/8-conductors IDC utilize T568A wiring scheme for voice.
  - 2. Modular Jacks: Jacks shall utilize T568A wiring, and shall conform to TIA/EIA 568C.2-1 CAT6 specifications for performance.

3. IDC Jacks: 8-positions/8-conductors for use in workstation communication outlets or at modular patch panels in TRs to terminate UTP CAT6 cables.
  - a. Modular jack connectors for VOICE shall be Blue.
  - b. Modular jack connectors for DATA (ULAN) shall be Orange.
  - c. Modular jack connectors for SPARE 1 shall be Green.
  - d. Modular jack connectors for SPARE 2 shall be yellow.
- C. Fiber Optic Connectors:
  1. Fiber optic connectors shall be 568SC type connectors. Connectors shall have an insertion loss of not greater than 0.25 dB per mated pair of connectors. Connector shall enclose outermost coating of single fiber strand, and have capability of being mated or unmated without using any tool. Connector shall be field installable.
  2. Fiber optic connector shall be rated by Manufacturer to withstand at least 1,000 couplings with variance in insertion loss with plus or minus 0.25dB.
  3. Provide white duplex SC style adapter insert (also referred to as 569SC in TIA/EIA 568-C.3 standards) at faceplate when indicated on Drawings.
  4. Mechanical type terminations such as Unicam are not permitted.
  5. Provide associated accessories, tools, and installation kits.
    - a. Required modules/adapters; white for patch panel/outlet placement.
    - b. Housing panels for termination cabinet placement.
- D. Coaxial Connectors:
  1. Type F, 75 Ohm unless stated otherwise.

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Examine pathway elements intended for cables. Check raceways, cable trays, and other elements for compliance with space allocations, installation tolerances, hazards to cable installation, and other conditions affecting installation. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Install faceplates and connectors in accordance with referenced standards and manufacturer's recommendations.
- B. Attach wall-mounted boxes to studs or to other support accessories or support.

C. Wall-Mounted Phones:

1. Building Interior: Install in single-gang electrical box.
2. Building Exterior:
  - a. Install 1200 mm (48 inches) above adjacent surface in flush-mount single-gang metal electrical box.
  - b. Provide one 4-pair UTP category 6 cable with 1 m (3 ft) pigtail. Terminate pigtail with category 6 RJ-45 jack for testing.

END OF SECTION 271543