



INVITATION TO BID

SOLICITATION TITLE: Fiber Optic Backbone Infrastructure Project – Community College of Rhode Island
SOLICITATION NUMBER: 7549764
BID PROPOSAL SUBMISSION DEADLINE: August 26, 2015 at 10:00 AM

PREBID CONFERENCE

NONMANDATORY

MANDATORY → Bidder must attend the mandatory prebid conference. The bidder's representative must register with the Division of Purchases at the mandatory prebid conference and identify the bidder he or she represents.

Location: Community College of Rhode Island Warwick (Knight) Campus, 400 East Avenue, Warwick RI 02886. Report to Conference Room #2328 (2nd Floor, behind CCRI Purchasing Department).

Date: Thursday, August 06, 2015

Time: 8:00 AM

QUESTIONS about this solicitation must be emailed and received by the Division of Purchases at doa.purquestions3@purchasing.ri.gov no later than Tuesday, August 11, 2015, 4:00 PM, in a Microsoft Word attachment with the corresponding solicitation number. Questions, if any, and responses will be posted on the Division of Purchases website at www.purchasing.ri.gov as an addendum to this solicitation

BID BOND REQUIRED: NO
 YES

PAYMENT AND PERFORMANCE BOND REQUIRED: NO
 YES

SPECIFICATIONS AND PLANS: NO
 YES → See Electronic Solicitation Bidding Information.
Click on the online active "D" link in the "info" column.

Continued onto next page



INVITATION TO BID

SOLICITATION TITLE: Fiber Optic Backbone Infrastructure Project – Community College of Rhode Island
SOLICITATION NUMBER: 7549531
BID PROPOSAL SUBMISSION DEADLINE: August 26, 2015 at 10:00 AM

RIVIP REGISTRATION: Bidders must be registered vendors through the online Division of Purchases Rhode Island Vendor Information Program at www.purchasing.ri.gov. To register or update information, click on “Vendor Center,” then “Vendor Information” from the dropdown menu on the left.

BIDDER CERTIFICATION COVER FORM: Bidders must download (obtainable at www.purchasing.ri.gov), complete, and submit a Bidder Certification Cover Form with each bid proposal.

The State of Rhode Island through its, Department of Administration, Division of Purchases, is soliciting bid proposals to perform the work described in the plans and specifications dated July 21, 2015 For the Project in accordance with this solicitation.

Bidders are invited to submit bid proposals to the Division of Purchases by the bid proposal submission deadline.

This solicitation contains, and is subject to the terms and conditions of, the Invitation to Bid, Instructions to Bidders, Bid Preparation Checklist (with applicable forms), Agreement, General Conditions, any Supplemental Conditions, Specifications and Plans, Bidder Certification Cover Form, and Bid Form. The solicitation is available at www.purchasing.ri.gov.

The award of the contract pursuant to this solicitation will be made to the responsive and responsible bidder with the lowest bid price. *The Division of Purchases reserves the right to waive any technicalities in the bid proposals, accept or reject any bid proposal, award a contract in the best interest of the State, or revoke any solicitation.*

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INVITATION TO BID

Electronic Solicitation Bidding Information

Downloading and Accessing Additional Electronic Solicitation Files

Accessing electronic files on the purchasing website will require Adobe viewer. All bid solicitations that include a "D" in the "Info" column will require WinZip 8.1 software. The WinZip file may contain one or more files. These files may require additional software such as Microsoft Office.

Specifications that have a file for download are marked with a "D" in the "Info" field of the bid search results page located on the Purchasing website. The "D" will indicate an active link to the WinZip file until the bid reaches its opening date. Clicking on the active "D" link will allow you to open or save the WinZip file associated with the bid. Opening the WinZip file will offer you the option of saving to your local computer.

Once saved, you can open the WinZip file and view the files. The individual files can be saved to your computer in a location such as "Desktop" or "My Documents".

Buyer Name: Gary P. Mosca, Title: Senior Buyer



State of Rhode Island Department of Administration
Division of Purchases

REVISED
November 20, 2013

NOTICE TO VENDORS

Each bid proposal for a *public works project* must include a "public copy" to be available for public inspection upon the opening of bids. **Bid proposals that do not include a copy for public inspection will be deemed nonresponsive.**

The public copy must be submitted in .pdf (portable document file) format on a *read-only* CD-R media disc. The disc must include *all of the documents* submitted in response to the solicitation concatenated or merged into one file. The file must be named in the following manner:

BidNumber_DateofBid_VendorName_VendorID.pdf

The Bidder Certification Cover Form contains all of the information for the file name. The date of bid must appear as mm-dd-yyyy. The vendor name must appear as one word, with no spaces or punctuation. Underscores must separate the fields.

Example: 7543210_11-08-2013_OceanStateCompanyInc_9867.pdf

The public copy disc must be separately enclosed in a protective cover clearly marked "Public Copy" and include the following information (all available from the Bidder Certification Cover Form): (1) title of solicitation; (2) name of bidder and RIVIP vendor ID number; (3) bid number; and (4) date of bid.

The public copy may redact any trade secrets or commercial or financial information which is of a privileged or confidential nature pursuant to the "Access to Public Records Act," R. I. Gen. Laws §§ 38-2-1 *et seq.*

For further information on how to comply with this statutory requirement, see R. I. Gen. Laws §§ 37-2-18(b) and (j). Also see Procurement Regulation 5.11 accessible at www.purchasing.ri.gov



Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
ONE CAPITOL HILL
PROVIDENCE RI 02908

CREATION DATE : 29-JUL-15
BID NUMBER: 7549764
TITLE: FIBER OPTIC BACKBONE INFRASTRUCTURE
PROJECT - CCRI

BLANKET START : 01-SEP-15
BLANKET END : 31-DEC-15
BID CLOSING DATE AND TIME:25-AUG-2015 10:00:00

BUYER: Mosca, Gary
PHONE #: 401-574-8124

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O
CCRI CONTROLLER'S OFFICE
ACCOUNTS PAYABLE
400 EAST AVENUE
WARWICK, RI 02886
US

S
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P
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O
CCRI KNIGHT CAMPUS
400 EAST AVE
WARWICK, RI 02886-1807
US

Requisition Number: 1411316

Line	Description	Quantity	Unit	Unit Price	Total
1	FIBER OPTIC BACKBONE INFRASTRUCTURE FIBER OPTIC CABLING SYSTEM FOR CCRI KNIGHT CAMPUS PER ATTACHED SPECIFICATIONS.	1.00	Each		

Delivery: _____

Terms of Payment: _____

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer

COMMUNICATIONS BACKBONE CABLING SPECIFICATIONS

PART 1 -GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the State of Rhode Island (purchasing terms and conditions apply to this document.
- B. CCRI T-Series drawings dated: June 30, 2011.

1.2 CODES, STANDARDS AND REGULATIONS

- A. Applicable provisions of the latest editions of the following Codes and Trade Standard Publications must apply to the work of this document are hereby incorporated into, and made part of, the contract documents.
- B. Agencies - The following agencies and their codes, standards and regulations must govern all telecommunications work performed at CCRI.
 - 1. NFPA 70: National Electric Code
 - 2. OSHA: Occupational Safety and Health Act
 - 3. NESC: National Electrical Safety Code
 - 4. State of Rhode Island Building Codes
 - 5. State of Rhode Island Fire Marshal-Rhode Island
 - 6. UL Listing of Communications Cabling and Hardware
 - 7. ANSI: American National Standards Institute
 - 8. ANSI/TIA/EIA-568-C: Commercial Building Telecommunications Standard
 - 9. ANSI/TIA/EIA-569-B: Commercial Building Standard for Telecommunications Pathways and Spaces
 - 10. ANSI/EIA/TIA-526-14A "Method B: Optical Power Loss Measurements of Installed Multi-mode Fiber Cable Plant
 - 11. ANSI/EIA/TIA-526-7 "Method 1: Optical Power Loss Measurements of Installed Single-mode Fiber Cable Plant"
 - 12. ANSI/TIA/EIA-606-A: Administration Standard for the Telecommunications Infrastructure of Commercial Buildings

13. ANSI/J-STD-607-B: Commercial Building Grounding and Bonding Requirements for Telecommunications
14. BICSI: Building Industry Consulting Service International
15. BICSI Telecommunications Distribution Methods Manual (TDMM)
16. BOCA: Building Officials and Code Administrators (Standard Building Code)
17. EIA: Electronic Industries Association
18. FCC: Federal Communications Commission
19. FOTP: Fiber Optic Testing Procedures
20. IEEE: Institute of Electrical and Electronic Engineers, Inc.
21. TIA: Telecommunications Industry Association

1.3 WORK INCLUDED

- A. This project requires the installation of all building backbone cabling (fiber optic) to each Telecommunications Room (TR) from the Data Center, Room 2098 (Data Center) on the second floor.
- B. Perform all work and provide all materials and equipment as shown on Drawings and/or as specified and/or indicated in this Specification(s). Completely coordinate work of this document with the CCRI Information Technology Department (CCRI-IT) and work of other trades.
- C. Work must begin in coordination with and under the management of CCRI-IT, to commence upon receipt of CCRI purchase order, with completion 60 days After Receipt of Order. Termination and testing must begin upon acceptance of the installation of the cabling and pathways by CCRI-IT.
- D. The communications backbone cabling system requirements must include all material and labor (provide, install, terminate and test) for a complete installation of all listed, but not limited to, work included items in this document for a complete and fully functional telecommunications cabling system.
- E. Drawings and Specifications form complimentary requirements; provide work specified and not shown, and work shown and not specified as though explicitly required by both. Although work is not specifically shown or specified, provide and install all supplementary or miscellaneous items, appurtenances, devices and materials obviously necessary for a sound, secure and complete installation to meet all applicable codes and requirements.

- F. Give notices, file plans, obtain permits and licenses, pay fees and back charges, and obtain necessary approvals from authorities that have jurisdiction, as required, to perform work in accordance with all legal requirements and with Specifications, Drawings, Addenda and Change Orders, all of which are part of Contract Documents.
- G. Provide, install, terminate and test all building backbone cabling components for this project. Install cabling in inner-duct, existing cable tray, existing conduits and in new conduit sleeves (specified in this document) for all building backbone cables from the Data Center. Cables must not be installed by any other means unless approved by the CCRI-IT.
- H. Provide, install, terminate and test one (1) twenty four (24) strand single-mode, 8.3 micron (must be Panduit FSPP924Y) and one (1) twelve (12) strand 50 micron multi-mode, OM3 Grade plenum rated fiber optic cable (must be Panduit FOPPX12Y) to each Telecommunications Room (TR) equipment rack, listed below, from the Data Center for this project. Splicing of the fiber optic cable between each location **is not allowed**. See table below for reference purposes only.

	Reference Name	Room Number and Location
1	MEG 1E	1st Floor East - Room 1004
2	MEG 2E	2nd Floor East - Room 2004
3	MEG_3E	3rd Floor East - Room 3004
4	MEG_2W	2nd Floor West- Room 2103
5	MEG 3W	3rd Floor West - Room 3111
6	MEG 6	6th Floor Middle- Room 6210
7	EXP_2	2nd Floor Help Desk- Room 2117A
8	EXP_3	3rd Floor- Room 3100A
9	EXP 4	4th Floor - Room 4100
10	EXP 6	6th Floor - Room 6042
11	EXP G	Basement- Room 0120
12	NEXP_G	Basement - Room 0044
13	MEG_B	Basement - Room 0246
15	None	1st Floor West- Room 1142

- I. Provide, install, terminate and test one (1) fiber optic cable to include twenty four (24) strands of single-mode, 8.3 micron, plenum rated fiber optic cable (must be Panduit FSPP924Y) to the equipment rack in Room 1506 (Round Building LRC_1) and one (1) fiber optic cable to include twenty four (24) strands of single-mode, 8.3 micron, plenum rated (must be Panduit FSPP924Y) to the equipment rack in Room 5564 (Round Building LRC_5), both cable will originate from the Data Center for this project. Splicing of the fiber optic cable between each location is **not allowed**.

- J. Provide, install, terminate and test one (1) outdoor rated, loose tube fiber optic cable (must be Panduit FSMP924Y) to include twenty four (24) strands single-mode, 8.3 micron, fiber optic cable to the equipment rack in Room 8210 (Field House) from Data Center.
- K. Provide and install one (1) four inch firestopping sleeve at each TR included in this project. Provide and install a four inch conduit extension (if needed) from the nearest cable tray to the new firestopping sleeve.
- L. Provide and install one (1) two inch firestopping sleeve to Room 2572 (Round Building, second floor). Provide and install one (1) two inch conduit extension from Room 2572 across the bridge to the nearest cable tray on the second floor of the main building. Provide and install a pull box in line with the two inch conduit after the second ninety degree bend in the run. No conduit run will have more than two (2) 90 degree bends without a pull box. Room 2572 has the riser sleeves to feed rooms 1506 and 5564, previously mentioned, for the Round Building.
- M. Provide and install three (3) four inch firestopping sleeves in the Data Center. Provide and install a four inch conduit extension (if needed) from the nearest cable tray to the new firestopping sleeves.

1.4 SUMMARY

- A. This document Includes:
 - 1. Pathways
 - 2. Fiber Optic Building and OSP Backbone Cable
 - 3. Cable Connecting Hardware
 - 4. Cable Identification Products
 - 5. Inner-duct
 - 6. Firestopping Sleeves and Extensions
 - 7. Field Quality Control and Testing

1.5 DEFINITIONS

- A. Building Backbone Cable: Telecommunications cable consisting of fiber optic cable between the Data Center and Telecommunications Rooms
- B. Basket Cable Tray: A fabricated structure consisting of wire mesh bottom and side rails
- C. BICSI: Building Industry Consulting Service International
- D. RCDD: Registered Communications Distribution Designer
- E. BICSI TDMM: Telecommunications Distribution Methods Manual
- F. Cable Tray: A fabricated structure consisting of a one-piece, ventilated-bottom or solid-bottom channel
- G. Consolidation Point: A location for interconnection between horizontal cables extending from building pathways and horizontal cables extending into furniture pathways
- H. Cross-Connect: A facility enabling the termination of cable elements and their interconnection or cross-connection
- I. EMI: Electromagnetic interference
- J. IDC: Insulation displacement connector
- K. Ladder Cable Tray: A fabricated structure consisting of two longitudinal side rails connected by individual transverse members (rungs)
- L. LAN: Local area network
- M. MUTOA: Multiuser telecommunications outlet assembly, a grouping in one location of several telecommunications outlet connectors
- N. Outlet Connectors: A connecting device in the work area on which horizontal cable or outlet cable terminates
- O. Solid-Bottom or Non-ventilated Cable Tray: A fabricated structure consisting of longitudinal side rails and a bottom without ventilation openings
- P. TR: Telecommunications Room/TR

1.6 PROJECT SUBMITTALS

- A. **Documentation Due At Bid Submission**
 - 1. Communications Systems bidders must provide a copy of the State of Rhode Island Telecom System Contractors license with responder bid package.
 - 2. All workers performing work on this project must hold a Telecom

license issued by the State of Rhode Island.

3. It is mandatory for all Communications Systems bidders to have an RCDD currently employed as a permanent staff member for the project. Provide name(s) of RCDD assigned to project and proof of RCDD certification with responders bid package.
4. Submit the following with bid response: References for three (3) projects completed of similar size and scope must be supplied for bidding firm and RCDD. Specific references of installation of fiber optic backbone cabling systems tested to the highest testing standards at the time of the installation must also be supplied.
5. It is mandatory for all Communications Systems bidders to have a P.C.I. (Panduit Certified Installer) currently employed as a permanent staff member for the project. This individual/s must be assigned to and actively working on this project. Provide names(s) and proof of certification with responders bid package.

B. Documentation Due Prior to Start of Project

1. Product Data: Provide detailed product data for each type of product indicated, specified in this document, prepared by manufacturers, suppliers and vendors. Provide indicating arrow on all product data sheets. Cut sheets must be approved and stamped by vendor's own RCDD and approved by CCRI-IT before the start of any work.
2. Shop Drawings: For communications equipment room fittings. Include plans, elevations, sections, details, and attachments to other work.
3. Pathways
4. Fiber Optic Building and OSP Backbone Cable
5. Cable Connecting Hardware
6. Cable Identification Products
7. Inner-duct
8. Firestopping Sleeves and Extensions
9. Field Quality Control and Testing

C. Documentation Due At Close of Project

Provide one complete set of "AS-BUILT" drawings in AutoCAD and PDF (softcopy) format upon completion and before acceptance of all Communications Building Backbone Cabling included in this document. Provide two sets (hard copy) of a minimum size of 30" X 42" which must be delivered to CCRI-IT.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: For Installer, qualified layout technician, installation supervisor, and field inspector.
1. The installation of all required components must be provided for and installed in compliance with the latest revisions to the CCRI Communications Standards.
 2. Layout Responsibility: Preparation of Shop Drawings must be under the direct supervision of RCDD.
 3. Installation Supervision: Installation must be under the direct supervision of an RCDD, who must be present at all times when work is performed on the project site.
 4. Field Inspector: Currently registered by BICSI as permanently employed RCDD of the project to perform the on-site inspection.
 5. .It is mandatory for all Communications Systems bidders to hold and be able to provide a minimum 25 year, end to end, System Performance Warranty for the fiber optic building backbone cabling system to CCRI-IT before system acceptance by CCRI-IT.
- B. Electrical Components Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Telecommunications Pathways and Spaces: Comply with TIA/EIA-569-A.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install cable until spaces are enclosed and weathertight and/or wet work in spaces is complete and dry.

1.9 COORDINATION

- A. Coordinate layout and installation of communications equipment with CCRI.
1. All drilling, including core drilling, must be coordinated with CCRI-IT for times and dates in conjunction with school schedules. Drilling during school hours is not permitted.
Meet jointly with CCRI-IT to exchange information and agree on details of equipment arrangements and installation interfaces.
 2. Record agreements reached in meetings and distribute them to other participants.

3. Adjust arrangements and locations of distribution frames, cross-connects, and patch panels in equipment rooms to accommodate and optimize arrangement and space requirements.
4. Adjust arrangements and locations of equipment with distribution frames, cross-connects, and patch panels of cabling systems of other communications, electronic safety and security, and related systems that share space in the equipment room.

PART 2- PRODUCTS

2.1 PATHWAYS

- A. General Requirements: Comply with TIA/EIA-569-A.
- B. Cable support of all Building Backbone Cabling, must be designed and installed to prevent degradation of cable performance, bend radius and pinch points that could damage cable.
 1. Conduits and Pull boxes
 2. Cable Tray
 3. Inner-duct
 4. Firestopping Sleeves and Conduit Sleeves: Provided by Communications Systems contractor for the work included in this document.

2.2 BUILDING BACKBONE CABLE

- A. General Requirements: Comply with TIA/EIA-568-B.
- B. Backbone cabling system must provide interconnections between communications equipment rooms, main terminal space, and entrance facilities in the telecommunications cabling system structure. Cabling system consists of backbone cables, intermediate and main cross-connects, mechanical terminations and patch cords or jumpers used for backbone-to-backbone cross-connection.
- C. Fiber Characteristics
 1. All fiber on this project must be wired straight through with no flips for transmit and receive.
 2. All fiber in the cable must be useable fibers and meet required specifications. No splicing of Fiber Optic cable will be allowed.
 3. All optical fibers must be sufficiently free of surface imperfections and inclusions to meet the optical, mechanical, and characteristic

- D. Test cables upon receipt at project site.
 - 1. Test optical fiber cable to determine the continuity of the strand, end to end utilizing a light source according to Part 3 of this document.

- E. Fiber Optic Cable Manufacturers: Subject to compliance with requirements, provide products by available manufacturers offering a minimum 25 year end to end System Performance Warranty for the fiber optic building backbone cabling system. General requirements are listed below but are not limited to, the following:
 - 1. Plenum and Outdoor Rated.
 - 2. The optical glass manufacturer must be 100% Panduit.
 - 3. One (1) single-mode cable (must be Panduit FSPP924Y) and one (1) multi-mode 50 micron, OM3 Grade, cable (must be Panduit FOPPX12Y) to each TR. (except for the Round Building and the Field House)
 - 4. One (1) single-mode (must be Panduit FSPP924Y) cable to each TR in the Round Building.
 - 5. One (1) single-mode (must be Panduit FSMP924Y) cable to the Field House from the Data Center.

- F. Description: Multi-mode, 50/125 micrometer, OM3 Grade, 12 strand-fiber, tight buffer, optical fiber cable, plenum rated (must be Panduit FOPPX12Y).

- G. Description: Single-mode, 24 strand-fiber, tight buffer, optical fiber cable, plenum rated (must be Panduit FSPP924Y).

- H. Description: Single-mode, 24 strand-fiber, loose tub, optical fiber cable for outside plant feed to the Field House OSP rated (must be Panduit FSMP924Y).

2.3 CABLE CONNECTING HARDWARE

- A. Manufacturers: Subject to compliance with requirements, provide Panduit plenum products offering minimum 25 year end to end System Performance Warranty for the fiber optic building backbone cabling system. General component requirements are listed below but are not limited to, the following:
 - 1. Fiber Optic Connector Housing (Patch Panels- Must be Panduit #FRME1U or #FRME4)
 - 2. Connector Housing Connector Panels
 - a. Multimode- Must be Panduit #FAP6WAQDLCZ
 - b. Singlemode- Must be Panduit #FAP12WBUDLCZ
 - 3. Fiber Optic Patch Cords

- a. Must be Panduit Single Mode Duplex LC to Duplex LC 1.6mm Jacketed patch cord
 - i. Panduit F9E10-10M1Y-1 Meter
 - ii. Panduit F9E10-10M2Y- 2 Meter
 - iii. Panduit F9E10-10M3Y- 3 Meter
 - b. Must be Panduit Multi-Mode Duplex LC 1.6mm Jacketed patch cord
 - i. Panduit FZE10-10M1-1 Meter
 - ii. Panduit FZE10-10M2- 2 Meter
 - iii. Panduit FZE10-10M3- 3 Meter
4. Fiber Optic Connectors (Must be Panduit #FLCSMBLY OM3/OM4 or #FLCSSBUY SM)
- B. Patch Panels: Modular panels housing multiple-numbered, duplex cable connectors and labeling hardware.
1. Fiber Optic Connector Housings installed in the Data Center shall be 4 unit housing(s).
 2. Fiber Optic Connector Housings installed in the TR's shall be no larger than 2 unit housing(s).
 3. Provide and install LC connector panels to accommodate all fiber optic cables installed and to fill the remaining open slots in each connector housing: Shall meet the requirements of an end to end warrantee.
 - a. Singlemode & Multimode
 4. Provide and install LC connectors to accommodate all fiber optic cables installed in compliance with manufacturer's warrantee.
- C. Fiber Optic Patch Cords
1. All Fiber Optic patch cords shall be factory terminated.
 2. Singlemode and Multimode patch cord shall be LC to LC, duplex, in one, two and tree meter lengths.
- D. Cable Connecting Hardware:
1. Comply with Optical Fiber Connector Intermateability Standards (FOCIS) specifications of TIA/EIA-604-2, TIA/EIA-604-3-A, and TIA/EIA-604-12. Comply with TIA/EIA-568-B.3.

2.4 CABLE IDENTIFICATION PRODUCTS

- A. General Requirements: Comply with TIA/EIA-606-A and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.

- A. Inner-duct must be one and one half inch, plenum rated with pull string.

2.6 FIRESTOPPING SLEEVES AND EXTENSIONS

- A. Provide Firestopping seals in accordance with the National Fire Protection Agency (NFPA), local codes and the National Electric Code (NEC).
- B. Firestopping materials must be re-enterable, reusable and manufactured by STI.
 - 1. 2.0 inch SpecSeal P/N: FS200 or approved equal
 - 2. 4.0 inch SpecSeal P/N: FS400 or approved equal
- C. 4.0 inch rigid metal conduit

PART 3- EXECUTION

3.1 PATHWAYS

- A. General Requirements: Comply with the latest revision - TIA/EIA-569-A "Telecommunications Spaces and Pathways".
- B. Wiring Method: Install cabling in inner-duct, existing cable tray, existing conduits and in new conduit sleeves (specified in this document) for all building backbone cables from the Data Center. Cables must not be installed by any other means unless approved by CCRIT.
- C. Install firestopping sleeves and conduits described in this document.

3.2 BUILDING BACKBONE CABLE

- A. Comply with the latest revision of the TIA/EIA-568-B - BICSI ITSIM, Ch. 6, and "Cable Termination Practices."
 - 1. Terminate all conductors; no cable must contain unterminated elements. Make terminations only at indicated patch panels.
 - 2. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.
 - 3. Cold-Weather Installation: Bring cable to room temperature before de-reeling. Heat lamps must not be used for heating.
 - 4. Pulling Cable: Comply with Manufacturers specifications for Pulling

Cable. Monitor all cable pull tensions.**B. Separation from EMI Sources:**

1. Comply with BICSI TDMM and TIA/EIA-569-B recommendations for separating data communication cable from potential EMI sources, including, but not limited to, electrical power lines and equipment.
2. Separation between open communications cables or cables in nonmetallic raceways and unshielded power conductors and electrical equipment must be as follows:
3. Electrical Equipment Rating Less Than 2 kVA: A minimum of 5 inches (127 mm).
4. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 12 inches (300 mm).
5. Electrical Equipment Rating More Than 5 kVA: A minimum of 24 inches (610 mm).
6. Separation between communications cables in grounded metallic raceways and unshielded power lines or electrical equipment must be as follows:
7. Electrical Equipment Rating Less Than 2 kVA: A minimum of 2-1/2 inches (64 mm).
8. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 6 inches (150 mm).
9. Electrical Equipment Rating More Than 5 kVA: A minimum of 12 inches (300 mm).
10. Separation between communications cables in grounded metallic raceways and power lines and electrical equipment located in grounded metallic conduits or enclosures must be as follows:
11. Electrical Equipment Rating Less Than 2 kVA: No requirement.
12. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 3 inches (76 mm).
13. Electrical Equipment Rating More Than 5 kVA: A minimum of 6 inches (150 mm).
14. Separation between Communications Cables and Electrical Motors and Transformers, 5 kVA or HP and Larger: A minimum of 48 inches (1200 mm).
15. Separation between Communications Cables and Fluorescent Fixtures: A minimum of 5 inches (127 mm).

1. Comply with TIA/EIA-568-B.3.
2. Cable must be terminated on rack mounted connecting hardware.

3.3 CABLE CONNECTING HARDWARE

A. General Requirements for Cable Connecting Hardware: Comply with TIA/EIA-568-B

1. Fiber Optic connectors - provide and install LC connectors to accommodate all fiber optic cables installed in compliance with the end to end warranty.
2. LC to LC Patch cord must conform to the end-to-end warranty requirements.
3. Provide two hundred (200) Single-mode patch cords in the configuration:
 - a. Sixty (60) one (1) meter Panduit F9E10-10M1Y
 - b. Eighty (80) two (2) meter Panduit F9E10-10M2Y
 - c. Sixty (60) three (3) meter Panduit F9E10-10M3Y
4. Provide one hundred (100) 50 micron multi-mode patch cords in the following configuration:
 - a. Thirty (30) one (1) meter Panduit FZE10-10M1
 - b. Forty (40) two (2) meter Panduit FZE10-10M2
 - c. Thirty (30) three (3) meter Panduit FZE10-10M3

3.4 CABLE IDENTIFICATION PRODUCTS

- A. General Requirements: Comply with TIA/EIA-606-A and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.
- B. Provide labeling per CCRI standards. CCRI-IT must approve all labeling for all cabling used in this project.

3.6 FIRESTOPPING SLEEVES AND EXTENSIONS

- A. Comply with State, Local and CCRI requirements. Comply with TIA/EIA-569-A; Annex A, "Firestopping" BICSI TDMM, "Firestopping Systems" Article.
- B. Provide and install one (1) four inch firestopping sleeve at each TR included in this project. Provide and install a four inch conduit extension (if needed) from the nearest cable tray to the new firestopping sleeve.
- C. Provide and install one (1) two inch firestopping sleeve to room 2572 (Round Building 2572, second floor). Provide and install one (1) two inch conduit extension from room 2572 across the bridge to the nearest cable tray on the second floor of the main building. Provide a pull box in line with the two inch conduit after the second ninety degree bend in the run. It is mandatory that the conduit run must have no more than two (2) ninety degree bends without a pull box. Room 2572 has the riser sleeves to feed rooms 1506 and 5564 previously mentioned for the Round Building.
- D. Provide and install three (3) four inch firestopping sleeves in the Data Center. Provide and install a four inch conduit extension (if needed) from the nearest cable tray to the new firestopping sleeves.

3.7 FIELD QUALITY CONTROL AND TESTING

- A. Contractor must perform inspections and cable testing and documentation for all cables installed in this project.
- B. Inspections and testing:
 - 1. Visually inspect cable placement, cable termination and labeling of all components.
 - 2. Backbone cabling system must comply with transmission standards in TIA/EIA-568-B.3, when tested according to test procedures of this standard.
 - 3. For testing, building must be operational (i.e. building lighting and power must be energized).
 - 4. Test and record the quality of each cable while still on the reel, prior to installation, to verify that no damage has occurred during shipment. This test must be done in one direction only.
 - 5. Factory test multi-mode optical fiber cables according to TIA/EIA-526-14-A and TIA/EIA-568-B.3.
 - 6. Using an optical power meter (with memory capabilities), measure end-to-end insertion loss for all installed cables, including, but not limited to, the terminated fiber itself, all connectors and patch panels. The total loss must be measured and reported for each cable at the appropriate operating wavelengths, 850nm and 1300nm for multi-mode and 1310nm, and 1550nm for single-mode. Optical insertion loss measurements are to be done from both directions, end-to-end (Each TR to the Data Center and the Data Center to each TR). The length of each fiber must also be documented. All Fiber Optic cable tests (except those done on the reel) must be done only after the cable and its

7. Optical Fiber Cable Tests:
 - a. Test instruments must meet or exceed applicable requirements in TIA/EIA-568-B.1. Use only test cords and adapters that are qualified by test equipment manufacturer for channel or link test configuration.
8. Optical Fiber Cable Performance Tests: Perform optical fiber end-to-end link tests according to TIA/EIA-568-B.1 and TIA/EIA-568-B.3.
 - a. Link End-to-End Attenuation Tests:
 - 1) Multi-mode backbone link measurements: Test at 850 or 1300 nm in both directions according to TIA/EIA-526-14-A, Method B, and One Reference Jumper.
 - 2) Single-mode backbone link measurements: Test at 1310 or 1550 nm in both directions according to TIA/EIA-526-14-A.
 - 3) Attenuation test results for backbone links must be less than 2.0 dB. Attenuation test results must be less than that calculated according to equation in TIA/EIA-568-B.1.
- C. Successful bidder must provide a hard and soft copy (electronic) of all test results in a readable form. Hand written test results will not be accepted. For electronic submittal, test results must be readable via MS Word, MS Excel, Adobe Acrobat Reader, or MS Visio. If special software is required to review electronic test results, the contractor must provide this software and properly license it to CCRI for their use.
- D. Provide individual binders representing each Telecom Room containing documentation and test results for all cables. All binders must be indexed with tabs denoting room or area location.
- E. End-to-end cabling must be considered defective if it does not pass tests and inspections.
- F. Remove and replace cabling where test results indicate that the cabling does not comply with specified requirements.
- G. Provide Certificate of Compliance for connector loss.

END OF DOCUMENT



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration
DIVISION OF PURCHASES
One Capitol Hill
Providence, RI 02908-5855

Tel: (401) 574-8100
Fax: (401) 574-8387
Website: www.purchasing.ri.gov

**DIVISION OF PURCHASES
INSTRUCTIONS TO BIDDERS
PUBLIC WORKS CONSTRUCTION (PWC)**

Compliance with Instructions to Bidders

These Instructions to Bidders contain terms and conditions that will govern the preparation and submission of a bid proposal and any contract awarded pursuant to this solicitation.

Bidders must comply with each and every requirement of these Instructions to Bidders. Any failure to comply with any requirement may result in the determination of a nonresponsive bid proposal and/or the rejection of the bid proposal.

Priority of Terms and Conditions

The terms and conditions in these Instructions to Bidders *supersede* any and all inconsistent or conflicting terms and conditions in any other provision of any other document in this solicitation or in the bid proposal and govern this solicitation, the bid proposal, and any contract awarded pursuant to this solicitation.

Offer to Contract

Bid proposals constitute an offer to contract with the State of Rhode Island through the Department of Administration Division of Purchases on the terms and conditions contained in the solicitation, the laws of the State of Rhode Island, including all procurement statutes and regulations (available at www.purchasing.ri.gov), and applicable federal and local law, all of which are incorporated into this solicitation and any contract awarded pursuant to this solicitation by this reference.

Comprehensive Review and Inspection

The bidder is responsible for carefully reviewing all of the requirements of this solicitation, inspecting the project location, including checking and/or verifying measurements, site conditions, any limitations, and other details, prior to preparing and submitting its bid proposal. Failure to submit a complete bid proposal may result in rejection of the bid proposal. Claims for additional costs or time resulting from the bidder's failure to inspect and/or verify will not be considered.

Addenda

Responses to questions from bidders, interpretations of plans and specifications, changes prior to the bid proposal submission deadline, approvals of any substitutions, and supplemental instructions and terms will be posted as addenda on the Division of Purchases website at www.purchasing.ri.gov, and all addenda become incorporated into this solicitation upon posting. Bidders are responsible for checking the website to determine the issuance of any addenda. No addenda will be posted within the 5-day period preceding the bid proposal submission deadline except for an addendum withdrawing the solicitation or extending the bid proposal submission deadline.

Prebid Conference

At the discretion of the State Purchasing Agent, a prebid conference - mandatory or nonmandatory - may be held. Bidders must attend a mandatory prebid conference and are encouraged to attend a nonmandatory prebid conference. The bidder's representative must register with the Division of Purchases at a mandatory prebid conference and identify the bidder he or she represents.

Costs

The bidder is responsible for all costs and expenses to develop and submit a bid proposal in response to this solicitation.

Preparation of Bid Proposal

Bid proposals must be made on the Bid Form included in the solicitation and in accordance with the instructions in this solicitation. All applicable blanks must be completed in a legible manner, printed electronically, typed, or handwritten in ink, and amounts must be expressed in both words and figures. In the event of any contradictory terms, handwritten terms prevail over printed or typed terms, and words prevail over figures. Signatures must be in ink. No additional provisions, conditions, or limitations may be made by the bidder, and any erasures and/or corrections must be initialed in ink by the person signing on behalf of the bidder.

This solicitation contains a Bid Preparation Checklist to assist the bidder in preparing a bid proposal for submission.

Submission of Bid Proposal

Each bid proposal (a complete package, with the signed Bidder Certification Cover Form, signed Bid Form, Bid Surety, IRS Form W-9, signed General Contractor Apprenticeship Certification, if applicable, and public copy CD-R media disk) must be submitted in a *separate sealed envelope* with the bidder's name and address and the specific "Solicitation Number," "Solicitation Title," and the "Bid Proposal Submission Deadline" marked in the upper left-hand corner of the envelope.

The bid proposal must be delivered (via mail, messenger service, or personal delivery) to the Division of Purchases and date-stamped receipted by the date and time specified for the bid proposal submission deadline. Bidders should mail bid proposals sufficiently in advance of the bid proposal submission deadline to ensure timely delivery to the Division of Purchases or, when delivering a bid proposal in person or by messenger, should allow additional time for parking and clearance through security checkpoints. Bid proposals must be addressed to:

Rhode Island Department of Administration
Division of Purchases
One Capitol Hill, Second Floor
Providence, RI 02908-5855

Bid proposals that are not received by the Division of Purchases by the bid proposal submission deadline for whatever reason will be deemed late and will not be considered. The submission time will be determined by the time clock in the Division of Purchases. Postmarks will not be considered proof of timely submission.

At the bid proposal submission deadline, bid proposals will be opened and read aloud in public.

Bid Price

The bidder must submit a Base Bid Price on the Bid Form to perform all of the work specified in the solicitation, including the cost of the bonds and any allowances and addenda. The costs of alternates shall not be included in the calculation of the Base Bid Price. The bidder shall separately provide the cost for each alternate listed in the Bid Form. The cost for each alternate must be designated as an addition to, or subtraction from, the Base Bid Price. Alternates will be selected, if any, by the Division of Purchases in the order of priority listed in the Bid Form.

Bidder Certification Cover Form

The bidder must download, complete, sign, and submit the Bidder Certification Cover Form for this solicitation as the first document with each bid proposal. The Bidder Certification Cover Form is downloadable with the solicitation from the Division of Purchases website by logging in as a RIVIP vendor and clicking on the applicable "Bid Number."

Public Copy

Bid proposals submitted in response to this solicitation are public records pursuant to the Rhode Island "Access to Public Records Act," R. I. Gen. Laws §§ 38-2-1 et seq. Each bid proposal must include a "public copy" to be available for public inspection upon the opening of bids. Bidders may redact in the public copy any trade secrets or commercial or financial information which is of a privileged or confidential nature pursuant to the Access to Public Records Act.

The public copy must be submitted in .pdf (portable document file) format on a **read-only** CD-R media disk. The disk must include **all of the documents** submitted in response to the solicitation concatenated or merged into one file.

The public copy disk must be separately enclosed in a protective cover clearly marked "Public Copy" and include the following information: (1) Solicitation Title; (2) name of bidder and RIVIP vendor ID number; (3) Solicitation Number; and (4) bid proposal submission deadline.

The .pdf file must be named in the following manner:

SolicitationNumber_Bid Proposal Submission Deadline_BidderName_VendorID.pdf

The bid proposal submission deadline must appear as mm-dd-yyyy. The bidder name must appear as one word, with no spaces or punctuation. Underscores must separate the fields.

Example: 7543210_11-08-2013_OceanStateCompanyInc_9867.pdf

The public copy of each bid proposal will be posted on the Division of Purchases website.

*For Rhode Island Department of Transportation highway and bridge projects, in addition to the Quest Lite compatible electronic copy and one hard copy, the bidder must also include a duplicate original of the Quest Lite compatible electronic copy on a **read-only** CD-R media disk as the "public copy."*

Contractors Registration

The bidder must have and maintain a valid certificate of registration issued by the Contractors' Registration Board throughout the term of the contract awarded pursuant to this solicitation and ensure that its subcontractors, unless exempt from registration, also obtain and maintain valid certificates of registration.

Subcontractors

The bidder must demonstrate that it is able to perform a substantial portion of the work using its own workforce. Any bidder that does not maintain a permanent workforce and/or proposes to perform a disproportionate amount of the work through one or more subcontractors will be considered unqualified. The successful bidder must establish to the satisfaction of the State Purchasing Agent the reliability and responsibility of any subcontractors proposed to perform any work pursuant to this solicitation.

Taxes

The State of Rhode Island is exempt from federal excise taxes and state and municipal sales and use taxes. The bidder shall not include such taxes in any prices in the bid proposal.

Bid Surety

Bidders must furnish, with their bid proposals, either a bid bond from a surety licensed to conduct business in the State of Rhode Island or a certified check payable to the State of Rhode Island in the amount of five (5%) percent of the bid proposal. (*Bidders for Rhode Island Department of Transportation highway and bridge projects must furnish, with their bid proposals, a bid bond from a surety licensed to conduct business in the State of Rhode Island. Certified checks are not permitted for these projects.*) An attorney-in-fact who executes a bond on behalf of the surety must provide a certified current copy of the power of attorney. A successful bidder who fails to submit the additional documentation required by the tentative letter of award and/or fails to commence and pursue the work in accordance with the contract awarded pursuant to this solicitation may forfeit, at the discretion of the State Purchasing Agent, the full amount of the bid surety as liquidated damages. The State will retain the bid surety of all bidders until the earliest of: (i) the issuance of the Purchase Order; (ii) the 61st day following the bid proposal submission deadline; or (iii) the rejection of all bid proposals.

Divestiture of Investments in Iran Requirement

No bidder engaged in investment activities in Iran as described in R.I. Gen. Laws § 37-2.5-2(b) may submit a bid proposal to, or renew a contract with, the Division of Purchases. Each bidder submitting a bid proposal or entering into a renewal of a contract is required to certify that the bidder does not appear on the list maintained by the General Treasurer pursuant to R.I. Gen. Laws § 37-2.5-3.

Domestic Steel

Any steel products required by the plans and specifications in this solicitation must be formed, extruded, forged, cast, fabricated, or otherwise processed from steel made in the United States.

Withdrawal

A bidder may withdraw its bid proposal at any time prior to the bid proposal submission deadline. Bid proposals are irrevocable for a period of 60 days following the bid proposal submission deadline.

Reservation of Rights

The Division of Purchases reserves the right, at any time, for any reason, in its sole discretion, to: (i) revoke, suspend, or terminate this solicitation; (ii) accept or reject any and all bid proposals, in whole or in part; (iii) waive any technical defects, irregularities, or omissions in any bid proposals; and/or (iv) terminate any contract awarded pursuant to this solicitation, with or without cause.

Award

The State Purchasing Agent, in his or her sole discretion, will award the contract pursuant to this solicitation to the responsive and responsible bidder who submits the lowest responsive and responsible bid proposal. The State Purchasing Agent may determine, in his or her sole discretion, the low bid proposal on the basis of the amount of the Base Bid Price plus the alternates selected in accordance with the Bid Form. The successful bidder will receive a tentative letter of award from the Division of Purchases with instructions for the bidder to submit further documentation. The successful bidder shall be authorized to commence work only upon the issuance of the Purchase Order by the Division of Purchases and, in addition, an authorization from the user agency. The issuance of the Purchase Order and the continuation of any contract awarded pursuant to this solicitation is contingent upon the availability of funds.

Payment and Performance Bonds

The successful bidder must furnish a 100% payment and performance bond from a surety licensed to conduct business in the State of Rhode Island upon the tentative award of the contract pursuant to this solicitation.

Prevailing Wages

For contracts priced under \$1 Million

The successful bidder and its subcontractors must pay their workers at the applicable prevailing wage rates (adjusted every July 1) for the various trades on a weekly basis, pay their workers one and one-half times the applicable prevailing wage rates for each hour worked in excess of 8 hours in any one day or 40 hours in any one week, and submit certified weekly payroll forms on a monthly basis to the user agency. Prevailing wage posters and rate schedules, available at the Rhode Island Department of Labor and Training website at www.dlt.ri.gov, must be posted at the project site.

For contracts priced \$1 Million or More

The successful bidder and its subcontractors must pay their workers at the applicable prevailing wage rates (adjusted every July 1) for the various trades on a weekly basis, pay their workers one and one-half times the applicable prevailing wage rates for each hour worked in excess of 8 hours in any one day or 40 hours in any one week, submit certified weekly payroll forms on a monthly basis to the user agency, and maintain a certified prevailing wage daily log at the project site. Prevailing wage posters and rate schedules, available at the Rhode Island Department of Labor and Training website at www.dlt.ri.gov, must be posted at the project site.

Apprenticeship

if the value of the project pursuant to this solicitation is at least \$1 Million (including all alternates), the successful bidder must employ apprentices on this project (in accordance with the apprentice to journeyperson ratio for each trade approved by the State Apprenticeship Council. The bidder must complete, sign, and submit the General Contractor Apprenticeship Certification Form, included in the solicitation, with the bid proposal.

The successful bidder will also be required to complete, sign, and submit the General Contractor Apprenticeship Re-Certification and Certification Form following receipt of the tentative letter of award, and, in addition, each subcontractor must complete, sign, and submit to the successful bidder the Subcontractor Apprenticeship Certification Form prior to the commencement of any work on the project pursuant to this solicitation.

Specific information about apprentice occupations and apprenticeship requirements is available on the Rhode Island Department of Labor and Training website at www.dlt.ri.gov/apprenticeship.

Occupational Safety

The successful bidder must ensure (if the total contract price is at least \$100,000) that all employees at the project site possess a card issued by the United States Department of Labor certifying successful completion of an OSHA ten (10) hour construction safety program.

Hazardous Substances

The successful bidder must submit a chemical identification list to the Rhode Island Department of Labor and Training upon receipt of a Purchase Order from the Division of Purchases prior to performance of the contract awarded pursuant to this solicitation and make available to all employees a list of any hazardous substances that may present a risk of exposure.

Substitutions

Any proposal in response to a request for substitutions in this solicitation must include the detailed information necessary for a comprehensive evaluation, including (without limitation) the name of the material or equipment of the proposed substitution and a complete description of the proposed substitution, with drawings and performance and test data. Products specified in this solicitation establish a standard of quality, performance, dimension, function, and appearance. Proposed substitutions must meet the standard and will not be considered without the prior written approval of the Division of Purchases. All substitution approvals will be posted, as addenda to the solicitation on the Division of Purchases website.

Licenses

The successful bidder and anyone performing any work on the contract awarded pursuant to this solicitation must possess all of the licenses required by any federal, state, or local law to perform such work.

Insurance

The successful bidder must submit a copy of an endorsement and a certificate of insurance that references the solicitation number and names the State of Rhode Island as "certificate holder" and as "additional insured" upon the issuance of the tentative letter of award, on an annual basis during the term of the contract awarded pursuant to this solicitation, and from time to time upon request. The certificate of insurance must state that 30 days' advance notice of cancellation, nonrenewal, or material change in coverage (referencing the solicitation number) will be sent to: Rhode Island Department of Administration, Division of Purchases, One Capitol Hill, Providence, Rhode Island 02908-5855, fax # 401-574-8387, and provide evidence of the following specific types and amounts of insurance:

<u>Type of Insurance</u>	<u>Amount of Coverage</u>
Comprehensive General Liability	\$1 Million each occurrence (inclusive of both bodily injury and property damage)_ \$1 Million products and completed operations aggregate \$1 Million general aggregate

Comprehensive General Liability coverage shall include:

- Independent contractors
- Contractual (including construction "hold harmless" and other types of contracts or agreements in effect for insured operations)
- Completed operations
- Personal injury (with employee exclusion deleted)

Automobile Liability

Combined Single Limit	\$1 Million each occurrence
Bodily injury, property damage, including nonowned and/or hired vehicles and equipment	

Workers Compensation

Coverage B	\$100,000
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Environmental Impairment ("pollution control")	\$1 Million or 5% of contract amount, whichever is greater
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Builder's Risk	Contract amount
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All insurance required by this solicitation, whether through a policy or an endorsement, shall include: (i) a waiver of subrogation, waiving any right the insurance company may have to recover against the State of Rhode Island; and (ii) a provision that the bidder's insurance coverage shall be primary in relation to any insurance, self-insurance, or self-retention maintained by the State of Rhode Island, and any insurance, self-insurance, or self-retention maintained by the State of Rhode Island shall be in excess of the bidder's insurance.

The State Purchasing Agent reserves the right to accept alternate forms and plans of insurance and/or to require additional or more extensive coverage.

Minority Business Enterprises

The Division of Purchases reserves the right to give additional consideration to bid proposals submitted by minority/women business enterprises certified by the Division of Purchases, Minority Business Office ("MBEs") provided that any such bid proposal is fully responsive to the terms and conditions of this solicitation, and the bid price is determined, in the discretion of the Division of Purchases, to be within a competitive range.

Any bidder who does not intend to perform all of the work with its own forces shall recruit and engage MBEs to perform at least 10% of the dollar value of the contract awarded pursuant to this solicitation. To reach that goal, the bidder may allocate up to 60% of its costs for materials and supplies obtained from MBE dealers or 100% of its costs for materials and supplies obtained from MBE manufacturers.

The successful bidder must submit a plan to meet this requirement for approval by the Division of Purchases, Minority Business Enterprise Compliance Office within the 21-day period following the tentative letter of award, identifying all MBEs, and must also demonstrate its good faith best efforts to meet these MBE goals. Information about this requirement and a directory of MBEs certified in Rhode Island is available at www.mbe.ri.gov or (401) 574-8670.

Equal Opportunity

The successful bidder must demonstrate a commitment to equal opportunity and submit an affirmative action plan for review by the Rhode Island Department of Administration State Equal Opportunity Office within the 21-day period following the tentative letter of award. Information about this requirement is available at www.diversity.ri.gov/eo/eoophagehome.htm or (401) 222-3090.

Drug-Free Workplace

The successful bidder shall comply, and require that its employees comply, with the State of Rhode Island Drug Free Workplace policy and provide a certificate of compliance within the 21-day period following the tentative letter of award.

Sprinkler Impairment

The successful bidder must comply with the requirements of the State of Rhode Island's insurance carrier for sprinkler impairment and hot work, accessible at the Division of Purchases website at www.purchasing.ri.gov.

Foreign Corporations

No foreign corporation or limited liability company may transact business in the State of Rhode Island until it shall have obtained a Certificate of Authority from the Rhode Island Secretary of State, and no foreign limited partnership may transact business in the State of Rhode Island until it shall have obtained a Certificate of Registration from the Rhode Island Secretary of State. The successful bidder, if a corporation or limited liability company, will be required to provide a Good Standing Certificate, and if a limited partnership, will be required to provide a Letter of Legal Existence, issued by the Rhode Island Secretary of State within the 21-day period following the tentative letter of award.

Campaign Finance

The successful bidder who has contributed, within the 24 months preceding the contract award, an aggregate amount of more than \$250.00 within a calendar year to any Rhode Island general officer, candidate for general office, any member of the general assembly, or any Rhode Island political party, must file a "Vendor Affidavit" with the State of Rhode Island Board of Elections. Information about "Vendor Affidavits" and electronic filing is available at www.elections.ri.gov or Board of Elections, Campaign Finance, (401) 222-2056.

Binding Contract

The form of agreement the successful bidder will be required to execute is included in the solicitation. A binding contract between the State of Rhode Island and the successful bidder will be formed by the issuance of a Purchase Order from the Division of Purchases, *and only by the issuance of a Purchase Order, and only to the extent of available funds.* The binding contract will incorporate and be subject to the terms and conditions of the solicitation, including the Invitation to Bid, the Instructions to Bidders, the General Conditions, any Supplemental Conditions, the Plans and Specifications, the Bid Preparation Checklist, the Bid Form, the Bidder Certification Cover Form, the Agreement, and also the Purchase Order. The successful bidder shall be authorized to commence work only upon the issuance of the Purchase Order and, in addition, an authorization from the user agency.

Compliance with Terms of Contract

Failure of the successful bidder to comply with the terms and conditions of any contract awarded pursuant to this solicitation may result in nonpayment, suspension or termination of the contract, suspension or debarment of the bidder, or any other necessary or appropriate remedy.



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

TTY: Via RI Relay 711

Lincoln D. Chafee
Governor

Charles J. Fogarty
Director

STATE CONTRACT ADDENDUM

RHODE ISLAND DEPARTMENT OF LABOR AND TRAINING

**PREVAILING WAGE REQUIREMENTS
(37-13-1 ET SEQ.)**

The prevailing wage requirements are generally set forth in RIGL 37-13-1 et seq. These requirements refer to the prevailing rate of pay for regular, holiday, and overtime wages to be paid to each craftsmen, mechanic, teamster, laborer, or other type of worker performing work on public works projects when state or municipal funds exceed one thousand dollars (\$1,000).

All Prevailing Wage Contractors and Subcontractors are required to:

1. Submit to the Awarding Authority a list of the contractor's subcontractors for any part or all of the prevailing wage work in accordance with RIGL § 37-13-4;
2. Pay all prevailing wage employees at least once per week and in accordance with RIGL §37-13-7 (see Appendix B attached);
3. Post the prevailing wage rate scale and the Department of Labor and Training's prevailing wage poster in a prominent and easily accessible place on the work site in accordance with RIGL §37-13-11; posters may be downloaded at www.dlt.ri.gov/pw/Posters.htm or obtained from the Department of Labor and Training, Center General Complex, 1511 Pontiac Avenue, Cranston, Rhode Island;
4. Access the Department of Labor and Training website, at www.dlt.ri.gov on or before July 1st of each year, until such time as the contract is completed, to ascertain the current prevailing wage rates and the amount of payment or contributions for each covered prevailing wage employee and make any necessary adjustments to the covered employee's prevailing wage rates effective July 1st of each year in compliance with RIGL §37-13-8;
5. Attach a copy of this CONTRACT ADDENDUM and its attachments as a binding obligation to any and all contracts between the contractor and any

An Equal Opportunity Employer/Program./Auxiliary aids and services are available upon request to individuals with disabilities.

TTY via RI Relay 711



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone; (401) 462-8000
TTY; Via RI Relay 711

Lincoln D. Chafee
Governor
Charles J. Fogarty
Director

subcontractors and their assignees for prevailing wage work performed pursuant to this contract;

6. Provide for the payment of overtime for prevailing wage employees who work in excess of eight (8) hours in any one day or forty (40) hours in any one week as provided by RIGL §37-13-10;
7. Maintain accurate prevailing wage employee payroll records on a Rhode Island Certified Weekly Payroll form available for download at www.dlt.ri.gov/pw.forms/htm, as required by RIGL §37-13-13, and make those records available to the Department of Labor and Training upon request;
8. Furnish the fully executed RI Certified Weekly Payroll Form to the awarding authority on a monthly basis for all work completed in the preceding month.
9. For general or primary contracts one million dollars (\$1,000,000) or more, shall maintain on the work site a fully executed RI Certified Prevailing Wage Daily Log listing the contractor's employees employed each day on the public works site; the RI Certified Prevailing Wage Daily Log shall be available for inspection on the public works site at all times; this rule shall not apply to road, highway, or bridge public works projects. Where applicable, furnish both the Rhode Island Certified Prevailing Wage Daily Log together with the Rhode Island Weekly Certified Payroll to the awarding authority.
10. Assure that all covered prevailing wage employees on construction projects with a total project cost of one hundred thousand dollars (\$100,000) or more has a OSHA ten (10) hour construction safety certification in compliance with RIGL § 37-23-1;
11. Employ apprentices for the performance of the awarded contract when the contract is valued at one million dollars (\$1,000,000) or more, and comply with the apprentice to journeyman ratio for each trade approved by the apprenticeship council of the Department of Labor and Training in compliance with RIGL §37-13-3.1;
12. Assure that all prevailing wage employees who perform work which requires a Rhode Island trade license possess the appropriate Rhode Island trade license in compliance with Rhode Island law; and

An Equal Opportunity Employer/Program. /Auxiliary aids and services are available upon request to individuals with disabilities.

TTY via Rf Relay 711



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone: (401) 462-8000
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Lincoln D. Chafee
Governor

Charles J. Fogarty
Director

13. Comply with all applicable provisions of RIGL §37-13-1, et. seq;

Any questions or concerns regarding this CONTRACT ADDENDUM should be addressed to the contractor or subcontractor's attorney. Additional Prevailing Wage information may be obtained from the Department of Labor and Training at www.dlt.ri.gov/pw.

CERTIFICATION

I hereby certify that I have reviewed this CONTRACT ADDENDUM and understand my obligations as stated above.

By: _____

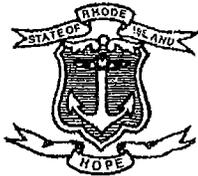
Title: _____

Subscribed and sworn before me this ___ day of _____, 20__.

Notary Public
My commission expires: _____

An Equal Opportunity Employer/Program, /Auxiliary aids and services are available upon request to individuals with disabilities.

TTY via RI Relay 711



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex

1511 Pontiac Avenue

Cranston, RI 02920-4407

Telephone: (401) 462-8000

APPENDIX A

TITLE 37

Public Property and Works

CHAPTER 37-13

Labor and Payment of Debts by Contractors

SECTION 37-13-5

§37-13-5 Payment for trucking or materials furnished - Withholding of sums due. -A contractor or subcontractor on public works authorized by a proper authority shall pay any obligation or charge for trucking and material which have been furnished for the use of the contractor or subcontractor, in connection with the public works being performed by him or her, within ninety (90) days after the obligation or charge is incurred or the trucking service has been performed or the material has been delivered to the site of the work, whichever is later. When it is brought to the notice of the proper authority in a city or town, or the proper authority in the state having supervision of the contract, that the obligation or charge has not been paid by the contractor or subcontractor, the proper authority may deduct and hold for a period not exceeding sixty (60) days, from sums of money due to the contractor or subcontractor, the equivalent amount of such sums certified by a trucker or materialman creditor as due him or her, as provided in this section, and which the proper authority determines is reasonable for trucking performed or materials furnished for the public works.

APPENDIX B

TITLE 37

Public Property and Works

CHAPTER 37-13

Labor and Payment of Debts by Contractors

SECTION 37-13-7

§ 37-13-7 Specification in contract of amount and frequency of payment of wages.

-(a) Every call for bids for every contract in excess of one thousand dollars (\$1,000), to which the state of Rhode Island or any political subdivision thereof or any public agency or quasi-public agency is a party, for construction, alteration, and/or repair, including painting and decorating, of public buildings or public works of the state of Rhode Island or any political subdivision thereof, or any public agency or quasi-public agency and which requires or involves the employment of employees, shall contain a provision stating the minimum wages to be paid various types of employees which shall be based upon the wages that will be determined by the director of labor and training to be prevailing for the corresponding types of employees employed on projects of a character similar to the contract work in the city, town, village, or other appropriate political subdivision of the state of Rhode Island in which the work is to be performed. Every contract shall contain a stipulation that the contractor or his or her subcontractor shall pay all the employees employed directly upon the site of the work, unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment computed at wage rates not less than those stated in the call for bids, regardless of any contractual relationships which may be alleged to exist between the contractor or subcontractor and the employees, and that the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work; and the further stipulation that there may be withheld from the contractor so much of the accrued payments as may be considered necessary to pay to the employees employed by the contractor, or any subcontractor on the work, the difference between the rates of wages required by the contract to be paid the employees on the work and the rates of wages received by the employees and not refunded to the contractor, subcontractors, or their agents.

(b) The terms "wages", "scale of wages", "wage rates", "minimum wages", and "prevailing wages" shall include:

- (1) The basic hourly rate of pay; and
- (2)) The amount of:

(A) The rate of contribution made by a contractor or subcontractor to a trustee or to a third person pursuant to a fund, plan, or program; and

(B) The rate of costs to the contractor or subcontractor which may be reasonably anticipated in providing benefits to employees pursuant to an enforceable commitment to carry out a financially responsible plan or program which was communicated in writing to the employees affected, for medical or hospital care, pensions on retirement or death, compensation for injuries or illness resulting from occupational activity, or insurance to provide any of the foregoing, for unemployment benefits, life insurance, disability and sickness insurance, or accident insurance, for vacation and holiday pay, for defraying costs of apprenticeship or other similar programs, or for other bona fide fringe benefits, but only where the contractor or subcontractor is not required by other federal, state, or local law to provide any of the benefits; provided, that the obligation of a contractor or subcontractor to make payment in accordance with the prevailing wage determinations of the director of labor and training insofar as this chapter of this title and other acts incorporating this chapter of this title by reference are concerned may be discharged by the making of payments in cash, by the making of contributions of a type referred to in subsection (b)(2), or by the assumption of an enforceable commitment to bear the costs of a plan or program of a type referred to in this subdivision, or any combination thereof, where the aggregate of any payments, contributions, and costs is not less than the rate of pay described in subsection (b)(1) plus the amount referred to in subsection (b)(2).

(c) The term "employees", as used in this section, shall include employees of contractors or subcontractors performing jobs on various types of public works including mechanics, apprentices, teamsters, chauffeurs, and laborers engaged in the transportation of gravel or fill to the site of public works, the removal and/or delivery of gravel or fill or ready-mix concrete, sand, bituminous stone, or asphalt flowable fill from the site of public works, or the transportation or removal of gravel or fill from one location to another on the site of public works, and the employment of the employees shall be subject to the provisions of subsections (a) and (b).

(d) The terms "public agency" and "quasi-public agency" shall include, but not be limited to, the Rhode Island industrial recreational building authority, the Rhode Island economic development corporation, the Rhode Island airport corporation, the Rhode Island industrial facilities corporation, the Rhode Island refunding bond authority, the Rhode Island housing and mortgage finance corporation, the Rhode Island resource recovery corporation, the Rhode Island public transit authority, the Rhode Island student loan authority, the water resources board corporate, the Rhode Island health and education building corporation, the Rhode Island higher education assistance authority, the Rhode Island turnpike and bridge authority, the Narragansett Bay water quality management district commission, Rhode Island telecommunications authority, the convention center authority, the board of governors for higher education, the board of regents for elementary and secondary education, the capital center commission, the housing resources commission, the Quonset Point-Davisville management corporation, the Rhode Island children's crusade for higher education, the Rhode Island depositors economic protection corporation, the Rhode Island lottery commission, the Rhode Island

partnership for science and technology, the Rhode Island public building authority, and the Rhode Island underground storage tank board.



State of Rhode Island
Division of Purchases

Public Works
Bid Preparation Checklist

Date: 7/30/2015

Bid#: 7549764

Title: Fiber Optic Backbone Infrastructure Project – Community College of Rhode Island

This checklist is provided to assist the bidder in preparing a bid proposal for submission. It is not a substitute for a thorough review of the Instruction to Bidders nor a comprehensive list of all bid proposal requirements. Each bidder is responsible to review the Instructions to Bidders and to comply with all requirements of the Solicitation.

Bid Proposal Package:

- RIVIP Bidder Certification Cover Form (completed) signed in ink
- Bid Form
 - All applicable blank spaces on the Bid Form have been completed
 - All Addenda have been acknowledged
 - Bid price printed legibly in ink (in both words and figures that match where specified)
 - Erasures or corrections have been initialed by person signing the Bid Form
 - Bid Form is signed in ink
- Bid Surety
 - Bid bond or certified check (for DOT projects, bid bond only)
 - Bid surety is five percent of the bid total (or such other specified amount)
 - Bid Bond is signed by the bidder and surety
 - Power of Attorney is attached to the Bid Bond showing the name of person who signed the surety bond
- Public Copy of bid proposal in pdf format on a read-only CD-R media disk
- General Contractor Apprenticeship Certification Form "2013-14" (for projects \$1,000,000 and greater) required at time of bid proposal submission

Note: General Contractor Apprenticeship Re-Certification and Certification Form "2013-16" and Subcontractor Apprenticeship Certification Form "2013-15" are not required at time of bid proposal submission deadline.

- Applicable professional licenses (as specified in the Solicitation)
- Rhode Island Contractor Registration Board No.
- All bid proposal documents in a sealed envelope with the specific Solicitation #, Solicitation title, and the bid proposal submission deadline marked in the upper left hand corner of the envelope
- Each bid proposal submitted in a separate sealed envelope
- Completed Form W-9
- Other _____

Buyer Name: Gary P. Mosca, Senior Buyer

Contact Information: Phone: 401-574-8124 E-mail: doa.purquestions3@purchasing.ri.gov

State of Rhode Island
**PAYER'S REQUEST FOR TAXPAYER
 IDENTIFICATION NUMBER AND CERTIFICATION**

THE IRS REQUIRES THAT YOU FURNISH YOUR TAXPAYER IDENTIFICATION NUMBER TO US. FAILURE TO PROVIDE THIS INFORMATION CAN RESULT IN A \$50 PENALTY BY THE IRS. IF YOU ARE AN INDIVIDUAL, PLEASE PROVIDE US WITH YOUR SOCIAL SECURITY NUMBER (SSN) IN THE SPACE INDICATED BELOW. IF YOU ARE A COMPANY OR A CORPORATION, PLEASE PROVIDE US WITH YOUR EMPLOYER IDENTIFICATION NUMBER (EIN) WHERE INDICATED.

Taxpayer Identification Number (T.I.N.)

Enter your taxpayer identification number in the appropriate box. For most individuals, this is your social security number.

Social Security No. (SSN)

Employer ID No. (EIN)

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NAME _____

ADDRESS _____

(REMITTANCE ADDRESS, IF DIFFERENT) _____

CITY, STATE AND ZIP CODE _____

CERTIFICATION: Under penalties of perjury, I certify that:

- (1) The number shown on this form is my correct Taxpayer Identification Number (or I am waiting for a number to be issued to me), and
- (2) I am not subject to backup withholding because either: (A) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (B) the IRS has notified me that I am no longer subject to backup withholding.

Certification Instructions -- You must cross out item (2) above if you have been notified by the IRS that you are subject to backup withholding because of under-reporting interest or dividends on your tax return. However, if after being notified by IRS that you were subject to backup withholding you received another notification from IRS that you are no longer subject to backup withholding, do not cross out item (2).

PLEASE SIGN HERE

SIGNATURE _____ **TITLE** _____ **DATE** _____ **TEL NO.** _____

BUSINESS DESIGNATION:

Please Check One: Individual Medical Services Corporation Government/Nonprofit Corporation
 Partnership Corporation Trust/Estate Legal Services Corporation

NAME: Be sure to enter your full and correct name as listed in the IRS file for you or your business.

ADDRESS, CITY, STATE AND ZIP CODE: Enter your primary business address and remittance address if different from your primary address). If you operate a business at more than one location, adhere to the following:

- 1) Same T.I.N. with more than one location -- attach a list of location addresses with remittance address for each location and indicate to which location the year-end tax information return should be mailed.
- 2) Different T.I.N. for each different location -- submit a completed W-9 form for each T.I.N. and location. (One year-end tax information return will be reported for each T.I.N. and remittance address.)

CERTIFICATION -- Sign the certification, enter your title, date, and your telephone number (including area code and extension).

BUSINESS TYPE CHECK-OFF -- Check the appropriate box for the type of business ownership.

Mail to: Supplier Coordinator, One Capitol Hill, Providence, RI 02908