



Town of North Providence

Bid Documents For:

High School BDA & DAS

Bids will be received at the Division of Purchasing office, 2000 Smith Street, North Providence, Rhode Island, until 10:45 a.m. local time on June 27, 2019.

Bids will be opened and read aloud at 11:00 A.M.

Bids must be sealed and plainly marked "High School BDA & DAS " on the outside of the envelope.

The Purchasing Board reserves the right to reject any and all bids, to waive any informalities in the bids received and to accept the bid deemed most favorable to the interest of the Town.

The following minimum specifications will apply to the device specified herein to be purchased for the Town of North Providence.

Vendors are requested to make their bids conform to these specifications. Vendors are also requested to check the device being delivered against these specifications, as the device will not be accepted unless completely equipped as specified.

It is intended that the manufacturer in the selection of components will use material and design practices that are the best available in the industry for the type of operating conditions to which the device will be subjected.

Device shall be equipped with all features required by law including but not limited to assistance to those of impaired hearing in conformance with the latest standards and requirements.

Payment will not be made until device meets all specifications.

Please refer any questions as to Specifications to Michael Mooney, Purchasing Agent, at (401) 232-0900 ext. 236.

Devices shall be completely ready and operational upon completion. Bids must include installation and included all necessary components, incidentals and labor. The manufacturer's warranty, general date, and all maintenance information shall be delivered with the device. The successful bidder shall manuals for device.

Only a firm bid will be accepted. All bids must include Installation, transportation, labor and delivery charges to the 2 Atlantic Blvd, North Providence, RI 02911

Any additions, deletions or variations from the following specifications must be noted. These specifications shall be construed as minimum. Should the manufacturer's current published data or specifications exceed these, they shall be considered minimum and shall be furnished. These specifications also require that the bidder furnish descriptive literature, complete specifications and all other necessary data on the equipment he proposes to furnish.

Equipment which would normally be part of the manufacturer's first grade package, not specifically set out in these specifications, and not inconsistent with these specifications, shall be made a part of these specifications referred to in the bid of the vendor or not.

Device shall be equipped with all Safety Features in conformance with the latest standards established.

INFORMATION FOR BIDDERS

1. Receipt and Opening of Proposals:

Sealed proposals (bids) will be accepted in the office of the Purchasing Agent, 2000 Smith Street, North Providence, R. I. 02911 until the time indicated in the Invitation for Bids, for the services designated in the Specifications and will then be publicly opened and read. No bids received thereafter will be considered.

2. Form of Bid:

Proposals must be submitted on and in accordance with the bid proposal form included hereto, blank places must be filled in as noted, no change shall be made in the phraseology or in the item or items mentioned therein, must contain the name and proper address of the bidding firm, and must be signed by a responsible member of the firm with his signature and official title. Proposals, which are not complete, or contain any omissions, erasures, alterations, addition or contain irregularities of any kind, may be rejected as informal.

3. Submission of Bids:

(a) Envelopes containing bids must be sealed and addressed to the office of the Purchasing Agent, and must be marked with the name and address of bidder, date and hour of bid opening, and name of item in bid call.

(b) The Purchasing Agent will decide when the specified time has arrived to open bids, and no bid received thereafter will be considered.

(c) Any bidder may withdraw his bid by written request at any time prior to the advertised time for opening. Facsimile bids; amendments, or withdrawals will not be accepted.

(d) No bid may be withdrawn for a period of ninety (90) days from the date and time of opening.

(f) Negligence on the part of the bidder in preparing the bid confers no rights for the withdrawal of the bid after it has been opened.

f) Proposals received prior to the time of opening will be securely kept, unopened. No responsibility will be attached to an officer or person for the premature opening of a proposal not properly addressed and identified.

(g) three (3) copies of all documentation submitted and an electronic copy on a CD or USB flash drive.

4. Acceptances or Rejection of Bid Proposal:

The Town reserves the right to award the bid by item and further reserves the right to reject any and all proposals or parts thereof, to waive any informality in the proposals received and to accept the proposal, or parts thereof, which it deems to be most favorable to the best interest of the Town.

5. Qualifications of Bidder:

The Town may make such investigations as it deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the right to reject any bid if the evidence submitted by, or investigation of such bidder fails to satisfy the Town that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein.

6. Commencement of Contract:

The successful bidder shall deliver devices within anticipated days for delivery. Project must complete in seven weeks from notification to proceed.

7. Indemnification:

The Contractor shall hold harmless, defend, and indemnify the Town and its officers, agents, and employees against all claims, demands, actions, and suits (including all attorney fees and costs) brought against any of them arising from the Contractor's work or any subcontractor's work under the contract.

8. Wages and Labor:

The Contractor shall comply with the applicable provisions of Title 37, Chapter 13, as amended, General Laws of Rhode Island (1977 Reenactment). Prevailing wage requirements shall be adhered to. Prevailing wage statements of compliance must be provided weekly by contractor, payment will not be processed until all documentation is submitted.

9. Safety and Health Regulations:

All work contemplated is to be governed, at all times, by applicable provisions of Federal, State of Rhode Island and Town laws, regulations, and ordinances.

10. Foreign Corporations:

Attention of bidders is hereby directed to excerpts from Chapters 1 to 6 of Title 7 of the General Laws of Rhode Island, 1956, as amended, relative to the conditions precedent, etc. to carrying on business within this State for foreign corporations.

11. Bid Evaluation:

This is an evaluated bid. Bids will be evaluated on the following criteria using a weighted scale: After total possible evaluation points are determined ISBE proposals shall be evaluated and assigned up to 6 bonus points for ISBE participation.

Bids shall be evaluated on the following criteria using a weighted scale, values stated below:

Previous Performance	10%
Bid Amount	40%
Ability to provide as specified	50%
ISBE Participation bonus points	6%

12. Affirmative Action Policy:

All bidders are required to submit an Affirmative Action Plan with bid documents.

By submission of proposals in response to this RFP vendors agree to comply with R. I. General Laws § 28-5.1-10 which mandates that contractors/subcontractors doing business with the Town exercise the same commitment to equal opportunity as prevails under Federal contracts controlled by Federal Executive Orders 11246, 11625 and 11375.

Vendors are required to ensure that they, and any subcontractors awarded a subcontract under this project, undertake or continue programs to ensure that minority group members, women, and persons with disabilities are afforded equal employment opportunities without discrimination on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, national origin, or disability.

Vendors and subcontractors who do more than \$10,000 in government business in one year are prohibited from engaging in employment discrimination on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, national origin, or disability, and are required to submit an "Affirmative Action Policy Statement."

Vendors with 50 or more employees and \$50,000 or more in government contracts must prepare a written "Affirmative Action Plan" prior to issuance of a purchase order.

a. For these purposes, equal opportunity shall apply in the areas of recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff, termination, and rates of pay or other forms of compensation.

b. Vendors further agree, where applicable, to complete the "Contract Compliance Report" (<http://odeo.ri.gov/documents/odeo-eeo-contract-compliance-report.pdf>), as well as the "Certificate of Compliance" (<http://odeo.ri.gov/documents/odeo-eeo-certificate-of-compliance.pdf>), and submit both documents, along with their Affirmative Action Plan or an Affirmative Action Policy Statement, prior to issuance of a purchase order. For public works projects vendors and all subcontractors must submit a "Monthly Utilization Report" (<http://odeo.ri.gov/documents/monthly-employment-utilization-reportform.xlsx>) to the ODEO/State Equal Opportunity Office, which identifies the workforce actually utilized on the project.

13. MBE/WBE:

In accordance with R. I. Gen. Laws §§ 37-14.1-1 and 37-2.2-1 it is the policy of the State to support the fullest possible participation of firms owned and controlled by minorities (MBEs) and women (WBEs) and to support the fullest possible participation of small disadvantaged businesses owned and controlled by persons with disabilities (Disability Business Enterprises a/k/a "DisBE")(collectively, MBEs, WBEs, and DisBEs are referred to herein as ISBEs) in the performance of RI State procurements and projects. As part of the evaluation process, vendors will be scored and receive points based upon their proposed ISBE utilization rate in accordance with 150-RICR-90-10-1, "Regulations Governing Participation by Small Business Enterprises in State Purchases of Goods and Services and Public Works Projects". As a condition of contract award vendors shall agree to meet or exceed their proposed ISBE utilization rate and that the rate shall apply to the total contract price, inclusive of all modifications and amendments. Vendors shall submit ISBE participation rate on the enclosed form entitled "MBE, WBE and/or DisBE Plan Form", which shall be submitted in a separate, sealed envelope as part of the proposal. ISBE

participation credit will only be granted for ISBEs that are duly certified as MBEs or WBEs by the State of Rhode Island, Department of Administration, Office of Diversity, Equity and Opportunity or firms certified as DisBEs by the Governor's Commission on Disabilities. The current directory of firms certified as MBEs or WBEs may be accessed at <http://odeo.ri.gov/offices/mbeco/mbe-wbe.php>. Information regarding DisBEs may be accessed at www.gcd.ri.gov.

GENERAL REQUIREMENTS

GENERAL

Produce all basic electronic equipment specified herein by manufacturers of established reputation and experience who shall be able to refer to similar installations rendering satisfactory service.

Provide equipment supplied by an authorized representative/installer of the manufacturer, maintaining a service organization of qualified technicians and replacement parts. Provide proof of equipment authorization, adequate service organization must be supplied. List quantities of equipment with the submittals in order to verify that the intent of the specification will be addressed. However, approval of the submittals will in no way be construed as a verification of the contractor's count of items to be supplied.

As it is not practical to enumerate in these specifications all details of accessory equipment required for proper operation of the system herein described, it is understood that they will be supplied by the contractor without extra compensation. Provide all work and materials, needed for the best performance possible at the present state-of-the-art.

SCOPE OF WORK

STATEMENT OF WORK

Contractor will supply and install all RF/fiber equipment associated with this project including but not limited to antennas, cables and any other components. All RF equipment must support analog and digital P25 700/800 MHz, including the National Public Safety Planning Advisory Committee (NPSPAC) band Land Mobile Radio public safety emissions

INTENT

It is the intent of these specifications, terms and conditions to describe a Bi-Directional Amplifier (BDA) / Distributed Antenna System (DAS) to be installed in the North Providence High School located at 1828 Mineral Spring Ave.

SCOPE OF WORK

The town operates on the State of Rhode Island 800 digital RISCON system and is primarily covered by 3 system sites located at 970 Smithfield Rd. North Providence, 2 Capitol Hill in Providence, and 175 Broad St. in Pawtucket. It is the goal of the North Providence Communications Department to enlist a qualified vendor who can design, supply and install a BDA/DAS in the 700/800 MHz Public Safety band at the North Providence High School that will supply both the North Providence Fire Department and the North Providence Police Department the ability to communicate anywhere within the building on portable radios and allow transmissions and reception to occur while operating on the RISCON State P25 Digital Trunking system as well as conventional 700/800 Analog systems.

Infrastructure for the 700 MHz, 800 MHz amplification system at the High School is to be included by the vendor awarded the contract and includes but is not limited to BDAs, a DAS, Radio Interface Units (RIUs), fiber converters, and fiber optic cabling.

System coverage shall be designed by following NFPA 1221 guidelines and requirements as well as what is described in this document, Vendor shall

follow whatever requirement is more stringent and what will provide the most coverage.

This submitted proposal shall be for a complete "Turn Key" system, any and all parts, equipment, and labor shall be included. No change order shall be made unless the town has changed the requirements in the document after it has been bided on.

1. SPECIFIC REQUIREMENTS

- a. Contractor will supply and install all RF/fiber equipment associated with this project including but not limited to antennas, cables and any other components. All RF equipment must support analog and digital P25 700/800 MHz, including the National Public Safety Planning Advisory Committee (NPSPAC) band Land Mobile Radio public safety emissions.
- b. The system as installed must comply with all applicable sections of FCC Rules. (Parts 22, 90, and 101).
- c. All in-building radio systems shall be compatible with both analog and digital communications simultaneously at the time of installation.
- d. A donor antenna must maintain isolation from the distributed antenna system and shall be a minimum of 15db above the signal booster gain under all operating conditions
- e. Required operating frequencies are as follows
 - i. ALL RISCON SYSTEM Frequencies
 - ii. DVRS Frequencies 771.48125/771.73125
 - iii. Backup repeater system 1 851.5625(repeater output)/806.5625(portable transmit)
 - iv. Backup repeater system 2 852.7625(repeater output)/807.7625(portable transmit)

2. SIGNAL STRENGTH

The in-building radio system is an integral component of the life safety equipment of a building or structure. The primary function is to provide reliable firefighter communications at the required signal strength within the specified areas.

Critical Areas such as emergency command center, fire pump room, exit stairs, exit passageways, elevator lobbies, standpipe cabinets, sprinkler sectional valve locations and similar critical areas shall be provided with 99% floor area radio coverage.

General building areas shall be provided with 95% radio coverage.

In-building radio system must provide the following signal strengths:
Downlink - Minimum signal strength of -95 dBm throughout the coverage area. Uplink - Minimum signal strength of -100 dBm received at the North Providence Radio System.

3. RADIO SURVEY

- a. The building owner shall have the in-building radio system tested to insure that two-way radio coverage on each floor of the building meets or exceeds the required 95%.
- b. Each floor of the building shall be divided into a grid of approximately twenty (20) equal areas. A maximum of one (1) area will be allowed to fail the test per floor. A spot located approximately in the center of a grid area will be selected for the test. Once the spot has been selected, prospecting for a better spot within the grid area will not be permitted. Field strength testing instruments are to be recently calibrated (1 year) and of the frequency selective type incorporating a flexible antenna similar to the ones used on the hand held transceivers.
- c. RF plots indicating the initial assessment of radio coverage and the enhanced coverage shall be submitted at the time of bid and again at time of acceptance testing.

4. COMPONENT INSTALLATION

- a. Assembly and installation of all components of the Fire Fighter Communication System shall comply with all applicable sections of the National Electrical Code.
- b. Survivability from attack by fire shall meet NFPA 72, National Fire Alarm Code, 2010 edition.
- c. The bi-directional amplifier will be installed in a NEMA 4 painted (fire engine red) steel cabinet with a locking mechanism.
- d. The cabinet shall be labeled (in bright yellow):

NORTH PROVIDENCE FIRE DEPT.

Serviced by: vendor name and telephone number

- e. BDA System shall be provided its own independent electrical circuit and marked in the panel with a circuit breaker lock to prevent someone from switching the breaker into the off position. (required electrical circuit shall be supplied by others)

5. SYSTEM MONITORING

- a. The installed system shall include a “Remote monitoring” panel and this panel should display the following items
 - i. Normal AC power
 - ii. Signal booster trouble
 - iii. Loss of normal AC power
 - iv. Failure of battery charger
 - v. Low battery capacity
- b. Monitoring Panel shall be located in a location approved by the Fire Dept AHJ
- c. A sign will be located at the dedicated monitoring panel with the name and telephone number of the North Providence Fire Dispatch Center as well as the radio service provider. The sign shall in larger font instruct occupant to notify the Fire Dept in the event of an alarm condition.

6. POWER SUPPLY

- a. At least 2 independent and reliable power supplies shall be provided.

- b. The primary power source shall be supplied from a dedicated twenty (20) ampere branch circuit and comply with NFPA 72, National Fire Alarm Code, 2010 edition. Circuit # and panel location shall be marked on the BDA cabinet as well as labeled in the breaker cabinet, Breaker shall have a tamper proof device to prevent switching the breaker off.
- c. The in-building radio system shall be capable of operating on a battery dedicated to the system with at least 12 hours of 100% system operation capacity.
- d. The battery system shall automatically charge in the presence of external power input. The battery system shall be contained in 1 NEMA 4 or 4X type enclosure.
- e. Monitoring the integrity of power supplies shall be in accordance with NFPA 72, National Fire Alarm Code, 2010 edition

7. ACCEPTANCE TEST

- a. Delivered audio quality (DAQ) testing will be conducted by installer with the presence of North Providence Communications Department and the Fire Marshal AHJ personnel to ensure that two way radio coverage, on each floor of the building, meets the minimum coverage requirements.
- b. A maintenance contract shall be included that provides 24 hour by 7 day response within 2 hours of notification of a problem. This contract must be for a period of at least 1 year.
- c. RF plotting (grid tests) results, gain values of all amplifiers, as built drawings which include BDA Manufacturer, Model #, Serial #, FCC Certification #, and a link budget must be submitted.

8. BIDDER MINIMUM REQUIREMENTS

- 1. Bidder shall be regularly and continuously engaged in the business of providing land-mobile radio, in-building system design and installation services for at least five (5) years.
- 2. Bidder shall be a certified manufacturer or dealer of all installed equipment.

3. Bidder shall possess all permits, licenses and professional credentials necessary to supply product and perform services as specified under this RFP.

It is understood that the Town reserves the right to award the bid by item or alternate item, and further reserves the right to reject any and all proposals or parts thereof, to waive any informality in the proposals received and to accept the proposal or parts thereof, which it deems to be most favorable to the best interest of the Town.

Bidder further agrees that after notification that the bid has been accepted shall be organized to commence work and for immediate delivery as specified.

The Bidder will identify business entity as individual, or if doing business under an assumed name, indicate assumed name, partnership (naming partners) and indicate official capacity of person executing proposal and bid.

Quotation amount: furnish and install as described: \$ _____

Anticipated days for completion from time of award: _____

Does purposed equipment meet bid specifications: Yes _____ No _____

Bidder: _____

Number & Street: _____

City/State/Zip: _____

Official Submitting this Document Name Printed: _____

Signature: _____

Date: _____ Phone No.: _____

Email Address: _____

Company years of experience in this field: _____

Project Manager for this project: _____

Years of Experience of Project Manager: _____

Qualifications and Credentials of Project Manager: _____

Statement of the specific type of equipment proposed to be provided

This is to certify that the above-mentioned equipment will be available for use in carrying out the provisions of the contract commencing as soon as possible.

Bidder: _____

By: _____

STATEMENT OF INSURANCE

The undersigned, will write and furnish to the Town of North Providence, Rhode Island, Contractor's Comprehensive General Liability and Property Damage Insurance, including Owner's Protective, in the amount of not less than \$500,000.00 and Automobile Liability, Comprehensive Form, Bodily Injury and Property Damaged Combined, in the amount of not less than \$500,000.00.

NAME OF INSURANCE COMPANY: _____

NUMBER & STREET: _____

CITY/STATE/ZIP: _____

SIGNATURE OF COMPANY OFFICIAL: _____

TITLE: _____ DATE: _____

PHONE NO.: _____

BIDDER: _____

BY: _____

THE BIDDER SHALL STATE SIMILAR CONTRACTS PERFORMED

Page 1

Name of Agency: _____

Amount of Contract: \$ _____

Name, position, address and telephone number of Official who supervised work:

Name of Agency: _____

Amount of Contract: \$ _____

Name, position, address and telephone number of Official who supervised work:

BIDDER: _____

BY: _____