



## Warren County School District

Pre-bid meeting will be held on March 9, 2016, 10:00 a.m.  
Eastside Elementary, 2121 Old Rock Island Rd, Rock Island, TN 38581

Proposals due no later than 10:00 am CST, March 18, 2016  
Proposals should be delivered to

Warren County Financial Management  
C/O Warren County Finance Department  
Warren County Administrative Office Building  
201 Locust Street, Suite 2  
McMinnville, Tennessee 37110

Proposals must be sealed and clearly  
labeled as RFP#160022187-Warren County  
Label on outside of envelope which of the  
following projects are included in bid:

NETWORK COMPONENT PROJECT  
WIRELESS ACCESS INSTALLATION PROJECT  
NETWORK CONFIGURATION 10GbE PROJECT  
EASTSIDE NETWORK CABLING PROJECT

## Introduction:

Warren County School District desires the following Wireless Local Area Network (WLAN) devices and related equipment and installation. Warren County School District existing equipment consists of HP Wireless Access Points and wireless controller. WCSD preferred equipment would be ARUBA or Aerohive wireless access points and controllers and Hewlett Packard Switches, however any equivalent maybe considered as long as RFP specifications are met and documentation included for an equivalent RFP.

The selected vendor will be our primary source for Installation and Configuration services for Universal Service Fund eligible products. In the event Warren County School District fails to receive FULL funding from the Universal Service Fund, this project and any contracts related to this project will be null and void.

RFPs can be submitted within the posting period, but are not required until the due date and time specified.

All State of Tennessee contractor-licensing requirements for public schools apply. Any contractor providing work under these contracts shall have the appropriate license for the scope of work they are to perform. Pay special attention to Items 12 and 13 in the attached Terms and Conditions.

These projects and services depend on funding from the E-rate program.

- Warren County School District expects each Service Provider to make themselves thoroughly familiar with any rules or regulations regarding the E-rate program.
- All contracts entered into as a result of the posting of this Form 470 will be contingent upon the specific funding of the FRN at the percentage rate submitted.
- Anything less than FULL funding requested could be grounds for cancellation of the contingent contract.
- The maximum percentage the Applicant will be liable for is the pre-discount amount minus the funded amount as shown on the form 471. The Service Provider will be responsible for invoicing the Schools and Libraries Division for the funded amount.
- NO work or billing can take place before July 1, 2016, or allowable date by USAC.
- The contractor is responsible for providing a valid SPIN (Service Provider Identification Number).
- The contractor is responsible for providing an FCC Registration Number and proof of Green-Light status in their response. **Failure to provide proof** of Green-Light Status may result in the proposal being considered non-responsive and the Offeror may be disqualified from participation in the bidding process.

- All work is subject to the 100% approval of the project or purchase under the E-rate program.
- Travel, services, and project management charges are to be included in the response.

All Service Providers will be responsible for procuring the discounted amount from the SLD using Form 474 (SPI). Applicant will not utilize the form 472 (BEAR form reimbursement process).

The Applicant reserves the right to deny any or all proposals associated with a particular form 470, even with SLD funding approval. The Applicant reserves the right to accept the pricing proposal dependent solely upon SLD approval.

Prospective Service Providers will be required to submit **three** references in the state of Tennessee, with a portfolio describing experience with comparable projects in the K-12 customer market, their SPIN number and their FCC Registration Number documentation noted above no later than March 18, 2016. Failure to supply these documents may be considered grounds for disqualification.

Service Providers must meet the following qualifications in order to be considered:

The contractor must:

- Provide brief project descriptions for a minimum of three (3) K-12 or higher education high capacity wireless network projects in the past three years.
- Provide minimum of three (3) references with contact name and telephone number.
- Provide detailed company qualifications and certifications, including
- Category 6 UTP (or greater) and Fiber-Optic Certifications.
- Must be certified by the proposed manufacturer of products to be installed.
- Provide a list of all sub-contractors that your firm will be using for this contract, along with their qualifications and certifications.
- Be contractors with experience in this type of work to RFP.
- Demonstrate that all technicians working on the projects have appropriate training and experience.
- Be duly licensed to do business in the State of Tennessee. The contractor's license number must be displayed on the outside of the RFP document. Failure to do so will mean disqualification.

## Right to Reject Any and All Quotes

We reserve the right to reject any or all proposals and to waive any informalities or irregularities. The Service Provider's submission of a proposal is recognition of this right.

In addition, the Applicant reserves the right to fund (proceed with project or purchase) or not to fund regardless of E-rate approval.

## Evaluation Criteria

Price will be the most heavily weighted factor in selecting the awarded vendor. Contracts shall be awarded on the best value as defined by the evaluation criteria outlined below:

Factor	Weight
Price	30%
Compatibility of proposed solution(s) with stated network protocols and the ability to design high capacity networks	25%
Industry Credentials and Certifications	20%
Prior Experience with District	18%
Prior Experience with E-Rate	7%

## General Terms and Conditions

### 1. **Confidentiality**

All material submitted to Warren County Schools must be treated as confidential and cannot be used for any other purpose than the response to this RFP. Information submitted by any vendor will be considered confidential to Warren County Schools and will not be used for any other purpose than evaluating vendor responses.

### 2. **Disclaimer**

This RFP does not commit Warren County Schools to any specific course of action. Warren County Schools reserves the right to not select any vendor or purchase any goods or services resulting from this RFP.

### 3. **Specifications/Alternate Brands**

When a brand name is specified it is meant to establish a standard and RFPs are invited on equal brands, unless otherwise specified. Bidders may bid on brands they consider to be equal by marking through the specified brand and inserting those brand names, models, etc., which they are bidding. Bidders proposing alternate brand must enclose the descriptive literature with their RFPs so that quality can be verified. Failure to do so may result in rejection of RFP. RFPs offering equal products will be considered for an award if they are so marked in the RFP and Warren County Schools determines that said product meets or exceeds fully the minimum essentials specification of the RFP.

### 4. **Equipment**

All equipment/ products must be new and current models.

### 5. **Warranties**

The manufacturers most favorable warranty offered to preferred customers shall apply to all items. A copy of such warranty shall be furnished to Warren County Schools upon the delivery of the equipment or product.

### 6. **Late RFPs**

Offers and modifications of offers or withdrawals received at the office designated in the solicitation after the exact hour and date specified for receipt will not be considered.

### 7. **Compliance State Laws**

It is agreed and understood that state laws shall govern any contract and/or order placed as a result of this proposal. The rights and obligations of the parties hereto shall be determined in accordance with the laws of the State of Tennessee.

### 8. **RFP Limit:**

Warren County School District requires all purchases over \$5,000 to be acquired by sealed competitive RFPs. Exceptions: Fuel, emergency purchases, and any items excluded by statute

9. **Location:** All RFPs must be submitted to the Warren County Finance Dept. at or before the announced deadline.

**Warren County Financial Management  
C/O Warren County Finance Department  
Warren County Administrative Office Building  
201 Locust Street, Suite 2  
McMinnville, Tennessee 37110**

10. **RFP Document:** For certain projects the Owner will supply a RFP form to be completed by the bidder. When such forms are issued, only RFPs returned with the proper forms will be accepted. Envelopes must be sealed and marked as a RFP document. Any RFP may be withdrawn prior to the day, date and time as set forth in the “RFP invitation”.

The sealed Reply to RFP must contain four (4) paper copies of the reply as well as an electronic copy (CD or jump drive)

On construction related RFPs, the envelope must contain the following information visible from the outside: TN License number, expiration date, classifications and limitations.

11. **Facsimile transmissions:** Electronic transmissions will not be accepted except when in the course of the bidding process addendums or other notifications of errors on behalf of the owner places an undue hardship upon prospective bidders. Written notification by the owner must precede the acceptance of Facsimile transmissions.
12. **Performance Bond:** For construction related RFPs, in excess of \$25,000 dollars, the owner requires a performance bond equal to one hundred percent of the contract price. **While this is not a construction RFP, Warren County School District is requiring a performance bond be produced by the awarded bidder prior to any work commencing. The performance bond must be for the full price of the RFP.**

13. **Disclosures by bidders:** For construction RFPs in excess of \$25,000 interested bidders must include the following information on the outside of the envelope containing the RFP document: Name, License number, Expiration Date thereof, and License classification of the contractors applying to RFP as stated in T.C.A. 62-6-119. For construction RFPs less than \$25,000, the name only is required. Warren County Schools maintains a drug-free workplace and requires all bidders for construction contracts to comply with T.C.A. 50-9-114.

14. **Laws and Regulations:** The bidder’s attention is directed to the fact that all applicable state laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full. Bidders may be required to provide proof of valid business license and Workers Compensation Insurance if required by law.

15. **Sub-contracts:** The Bidder is specifically advised that any person, firm, or other party to whom it is proposed to award a sub-contract under this contract must be acceptable to the Owner.
16. **Award of Contract:** The Owner (Warren County School District) further reserves the right to reject any and all RFPs, to waive any and all informalities and to negotiate contract terms with the successful bidder, and the right to disregard all non-conforming, non-responsive or conditional RFPs. Warren County School District may conduct such investigations as it deems necessary to assist in the evaluation of any RFP to establish the responsibility, qualifications, and financial ability of the bidder, proposed sub-contractors and other persons and organizations to perform the work in accordance with the contract documents to the bidder who does not pass any such evaluation to the owner's satisfaction. The contract shall be awarded to the lowest, best and most responsible bidder, whose evaluation by the Owner indicates to the owner that the award will be in the best interest of Warren County. Warren County Schools does not enter into contracts which provide for mediation or arbitration.
17. **Title VI of the Civil Rights Act of 1964:** All interested parties, without regard of race, color or national origin, shall be afforded the opportunity to bid and shall receive equal consideration. Title VI states "No person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program activity receiving Federal financial assistance." Warren County Schools strives to protect individuals' civil rights through active compliance with the requirements of Title VI.
18. **Payments:** Invoices that are submitted by the awarded bidder are required to provide accurate and current addresses. Payment terms shall be specified in the RFP response, including any discounts for early payment. The Finance Department of Warren County Schools discourages the practice of picking up checks in person, unless there is an emergency situation.
19. **Errors in RFPs:** When an error is made in extending total prices, the unit RFP price will govern. Carelessness in quoting prices or in preparation of RFP otherwise, will not relieve the bidder. Erasures or changes to RFPs must be initialed. Any alteration, erasure, addition to or omission of required information, change of the specifications or bidding schedule, is made at the risk of the bidder.
20. **Taxes:** Warren County School District is tax exempt.
21. **Contractors, Subcontractors and Employees:** If work is to be performed during regular school hours when children are present, the BOE reserves the right to require dress codes and certain ethical standards of all employees on school property.
  - a) **Criminal Background compliance Affidavit:** Contractor must submit the criminal background compliance affidavit on any employees or subcontractor that is working on the school site.
  - b) **Smoking Policy:** Workers are not allowed to smoke within 50 feet of a building and playground area.

**22. Insurance:** The successful Contractor shall procure, maintain, and provide proof of insurance coverage for injuries to persons and/or property damage as may arise from or in conjunction with the work performed on behalf of the County by the Contractor, his agents, representatives, employees or subcontractors as well as worker's compensation as required by law. Proof of coverage as contained herein shall be submitted fifteen (15) days prior to the commencement of work and such coverage shall be maintained by the Contractor for the duration of the contract period; for occurrence policies.

**22. Hold Harmless Clause** The Contractor shall, during the term of the contract including any warranty period, indemnify, defend, and hold harmless the Warren County Schools, its' officials, employees, agents, and representatives thereof from all suits, actions, or claims of any kind, including attorney's fees, brought on account of any personal injuries, damages, or violations of rights, sustained by any person or property in consequence of any neglect in safeguarding contract work or on account of any act or omission by the contractor or his employees, or from any claims or amounts arising from violation of any law, bylaw, ordinance, regulation or decree.

**23. Safety** All contractors and subcontractors performing services for the Warren County Schools are required and shall comply with all Occupational Safety and Health Administration (OSHA), State and County Safety and Occupational Health Standards and any other applicable rules and regulations. Also all contractors and subcontractors shall be held responsible for the safety of their employees and any unsafe acts or conditions that may cause injury or damage to any persons or property within and around the work site area under this contract.

**24. Drug-free Workplace** Every contract shall include the following provisions:

During the performance of this contract, the contractor agrees to (i) provide a drug-free workplace for the contractor's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; (iii) state in all solicitations or advertisements for employees placed by or behalf of the contractor that the contractor maintains a drug-free workplace.

For the purpose of this section, "drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor in accordance with this chapter, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana during the performance of the contract.

**25. Employment Discrimination by Contractors Prohibited**

Every Contract shall include the following provisions:

1. During the performance of this contract, the contractor agrees as follows:

- a. The contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age or disability, or any other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor agrees to post in conspicuous

places, available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause.

- b. The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, shall state that such contractor is an equal opportunity employer.
- c. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient to meet this requirement.

**26. Workmanship and Inspection** All work under the resulting contract shall be performed in a skillful and workmanlike manner. The Warren County Schools may, in writing, require the Contractor to remove any employee from work that the Warren County Schools deems incompetent or careless. Further, Warren County Schools may, from time to time, make inspections of the work performed under this contract. Any inspection by the Warren County Schools does not relieve the Contractor from any responsibility regarding defects or other failures to meet the contract requirements.

**27. Cleaning-Up** The Contractor(s) shall at all times keep the adjacent areas of the property free from rubbish and the accumulation on any waste materials and will leave the premises. . At the project's end, the contractor will leave the site in clean and acceptable condition.

**PROJECTED TIMETABLE**

The following projected timetable should be used as a working guide for planning purposes. Warren County School District reserves the right to adjust this timetable as required during the course of the RFP process.

<u>Event</u>	<u>Date</u>
RFP Issued	February 19, 2016
Deadline for submittal of questions	February 26, 2016
Addendum Issued for Questions & Answers	March 3, 2016
Posted to URL where RFP was posted	
Pre-Bid Meeting	March 9, 2016
Proposals Due	March 18, 2016
Evaluation of Criteria Begins	March 21, 2016
Complete Evaluation of Proposals	TBD
Complete Contract Negotiations/Execute Contract	TBD

**All questions about the RFP must be directed to Katrina Haley, Director of Technology at [haleyk@warrenschoools.com](mailto:haleyk@warrenschoools.com). ONLY EMAIL QUESTIONS WILL BE ANSWERED.**

RFP Posted to website: February 19, 2016. ([www.warrenschoools.com](http://www.warrenschoools.com))

## Warren County School District Proposal Requirements

### Scope of Work

The Warren County Schools project consists of a complete wireless network renovation to allow for a robust, high capacity wireless network infrastructure utilizing 802.11 2x2 and 3x3 Radio Access Points with MIMO which can handle demanding wireless network situations such as school wide online testing, web based student progress monitoring, portable laptop and iPad carts, streaming videos in classrooms, one-to-one computing, and the ever growing need for bandwidth in the classroom. Wireless controller(s) to manage all access points and provide fault tolerance in case of partial loss of communication or power eliminating a single point of failure.

The project will include the installation of new network drops for each wireless access point and 10GbE backbone from each MDF to IDF at every school in the district Bobby Ray Elementary School, Centertown Elementary School, Dibrell Elementary School, Eastside Elementary School, Hickory Creek Elementary School, Irving College Elementary School, Morrison Elementary School, Warren Academy, Warren County High School, Warren County Middle School, West Elementary School.

The proposed wireless solution will be an overlay to the existing legacy local area network (LAN). Proposed solution should include cabling, installation, mounting brackets, wireless access points, wireless controllers (if required), centralized management, configuration and licenses.

The proposed 10GbE backbone from MDF to all IDF's in each school will be an upgrade to the existing fiber, transceivers and switches. The proposed solution should include if needed, fiber, transceivers, switches and modules in current HP switches. Switch inventory and fiber available on request.

The project will include the installation of cabling for Eastside Elementary. Installation includes, but is not limited to cable pulled to each classroom location, cable terminated and certified from the MDF or IDF closet to the destination, installation of rack equipment in MDF and IDF closets. Cable will be pulled inside of wall where possible and hidden in Panduit with surface mount boxes where necessary. *See Exhibit A.*

## LAN REQUIREMENTS:

- Proposed solution changes and/or additions must be compatible with current Wide Area Network which allows DHCP, TCP/IP and other network traffic to be passed to other subnets in the district.
- Cabling required by the proposed solution must be an end-to-end CAT 6 solution including Switches, Patch Panels, Cabling, Face Plates, and Patch Panels from IDF closet to endpoint destination. Allowing connected Access Points to establish a minimum of a one gigabit network link. Installer must also warranty the installation for at least fifteen years or more. A statement of warranty must be included in the bid proposal. All cables must be certified and as-built drawings supplied to the school district.
- All cabling must be installed with J-hooks when not routed in a cable tray. Cable tray will be installed as part of the cabling project listed above. All cabling for the WAP's must receive a minimum of a fifteen-year warranty.
- Patch cables should be provided and installed for all WAP's.
- The proposed solution should utilize the existing Power-over-Ethernet Plus (PoE+) switches and propose new Power-over-Ethernet (PoE+) switches if required to provide sufficient power to all access points required in the proposal.
- Proposed solution must guarantee each cable is terminated and tested by certified technicians.

## WLAN REQUIREMENTS:

- Vender must have experience in designing high capacity wireless networks and minimizing co-channel interference.
- Proposed solution designed for centralized management and ability sustain partial communication, power or other environment issues and outages.
- Proposed solution must be designed for a high capacity wireless environment and must support a minimum number of clients for each designated area as follows:
  - Areas designated as classrooms (numbers) are high capacity areas and should consist of at least one wireless access point per classroom capable of supporting a minimum of 50 simultaneous wireless clients.
  - Areas designated as Offices and cafeterias are coverage areas and may share an access point with other offices but must have the capability of supporting a minimum of 10 simultaneous wireless clients per area.
  - Areas designated, as Gymnasiums and Auditoriums, are coverage areas and must have the capability of supporting a minimum of 150 simultaneous wireless clients per area with a minimum of two access points.
  - Current maps of schools showing classes, offices, current AP locations, MDF and IDF's are provided upon request.
- Classrooms will have access points mounted inside the room.
- Mounting kits multiple type ceilings including drop tile below T-Bar.

- Access points for Cluster of offices and common areas may be mounted in corridors.
- Proposed solution must support managed access points supporting both 2.4 and 5 ghz wireless clients and load balance the two for quality of service.
- Proposed solution must support a minimum of a -65 db signal strength in all classrooms and testing centers.
- Proposed solution must support segmented traffic to allow Internet only traffic on guest network, and full network access to secure wireless network.
- Proposed Solution must support VLAN's
- The selected vendor shall follow manufacture's guidelines and recommendations for installation.
- The selected vendor shall work with Warren County Schools IT department to confirm that each WAP is functional.
- Bidder implementing network equipment will perform programming of the WAP's.

#### **OTHER REQUIREMENTS:**

- Proposed solution must provide basic training and as-built drawings on new network equipment to Warren County IT Department.
- Proposed solution of installation must be in accordance with all current applicable TN OSHA, TN building codes and any other state, local or Federal Codes. All services performed will follow, but will not be limited to National Electrical Standards and ANSI EIA/TIA 568,569,606 and 607 standards

**Warren County School District**  
**Price Worksheets**

**Price Worksheet for Network Components – Warren County Schools**

When a brand name is specified it is meant to establish a required level of quality and functional capabilities, and are not intended to exclude other products of that level. Proposals are invited on equal brands. Proposers must enclose descriptive literature when stating alternate brand(s) so that quality can be verified. Proposers proposing other than specified, are to clearly identify the manufacturer and the model number and must provide written, complete justification as to how the product complies with all specifications highlighted within this RFP as well as the complete list of specifications related to the requested products. Failure to do so may result in rejection of their proposal.

**Component Price List (Cost per unit):**

APC AR3150 Cabinets	\$ _____
48 port patch panels	\$ _____
Vertical and Horizontal cable management	\$ _____
APC Smart UPS 2200Va with network management card	\$ _____
Leviton (2RU) dual rack Fiber LIU w/High Density coupler units	\$ _____
HP 5406R-Gig-T-PoE+/SFP+v2 zL2 switch	\$ _____
24-port Gig-T-PoE+/v2 zl Module	\$ _____
20-port Gig-T-PoE+/2-port 10GbE SFP+v2 zl module	\$ _____
HP 5400R 700W PoE+zl2 power Supply	\$ _____
HP x132 10Gig SFP+LC Transciever	\$ _____
19"WX84"T floor mounted equipment rack w/perforated lockable door	\$ _____
APC Smart UPS 1500RM-2U with Network management card	\$ _____
Leviton (1RU) single rack Fiber LIU w/High Density coupler units	\$ _____
HP 2530-48 G-PoE+2SFP+Switch	\$ _____
HPX132 10G SFP+LC Transceiver	\$ _____
HP 2530-48 G switch	\$ _____

Centralized Wireless Management License per WAP  
(MyHive/Airwave or equivalent not included in WAP price)      \$ \_\_\_\_\_

WAP Controller (Aruba 7205 series or equivalent)    Model \_\_\_\_\_ \$ \_\_\_\_\_

WAP Controller (Aruba 7030 series or equivalent)    Model \_\_\_\_\_ \$ \_\_\_\_\_

Controller License per WAP (if not part of AP Cost)      \$ \_\_\_\_\_

Wireless AP (AP130/iAP205 series or equivalent)    Model \_\_\_\_\_ \$ \_\_\_\_\_

Wireless AP (AP230/iAP215 series or equivalent)    Model \_\_\_\_\_ \$ \_\_\_\_\_

Wireless AP (AP370/iAP225 series or equivalent)    Model \_\_\_\_\_ \$ \_\_\_\_\_

Quoted prices must be planned to be effective July 1, 2016 and extend through September 30, 2017, and Warren County School District retains the right to extend this contract for up to three (3) more years in one year increments from July 1, 2016

**All prices must be guaranteed for the period of the contract. A sample of your contract must be submitted with this worksheet.**

**\*\*Any additional proposed but not listed (use additional sheet if need)**

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

**Price Worksheet for Network Component Project  
Warren County Schools**

**This form must be included in the bid documentation to be considered for award.**

This bid is offered for Network Components as presented in this document.

\_\_\_\_\_  
Company Name  
Mailing Address

\_\_\_\_\_  
Signature  
Title

SPIN # \_\_\_\_\_

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2016

**Name and Contact Information for Project**

**Manager:** \_\_\_\_\_

**Price Worksheet for Wireless Access Point Installation Project  
Warren County Schools**

**Wireless Access Point Installation**

A unit price for the installation of WAP's throughout all eligible entities will need to be established. WAP will be provided by the District. The unit price should include one 200' average length CAT 6 cable drop to classrooms and locations that includes, libraries, cafeterias and or gymnasium, cable termination, mounting hardware, WAP installation and configuration, controller/management installation and configuration. All cabling must be installed with J-hooks when not routed in a cable tray. Cabling must be terminated in patch panels in existing IDF and MDF Racks. All cabling for the WAP's must receive a minimum of a twenty-five-year warranty. Patch cables should be provided and installed in all WAP's. The selected vendor shall work with Warren County's IT department to confirm that each WAP is functional. Programming of the WAP's will be performed by bidder implementing network equipment. WAP quantities are listed by site in Table 1.

**Wireless Project** (see Table 1.)

Per Unit cost installation and configuration \$ \_\_\_\_\_

**Price Worksheet for Wireless Access Point and Installation Project  
Warren County Schools**

**This form must be included in the bid documentation to be considered for award.**

This bid is offered for Wireless Access Point Installation Project as presented in this document.

\_\_\_\_\_  
Company Name  
Mailing Address

\_\_\_\_\_  
Signature  
Title

SPIN # \_\_\_\_\_

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2016

**Name and Contact Information for Project**

**Manager:** \_\_\_\_\_

**Price Worksheet for Network Configuration 10GbE Backbone Project  
Warren County Schools**

**Network Components 10GbE backbone**

A unit price per school for the installation of modules in the existing switches at each MDF and fiber transceivers in the module, a new switch in each IDF with fiber transceivers and the OM 3 grade or better fiber cable installation and termination. Price should reflect all installation, configuration, and shipping and handling to Warren County School District. Project will include 10 eligible entities (East Side will be done as part of the cabling project). *See Exhibit B.*

**10Gb MDF to IDF's** (see Table 2.)

Bobby Ray Elementary	\$ _____
Centertown Elementary	\$ _____
Dibrell Elementary	\$ _____
Hickory Creek Elementary	\$ _____
Irving College Elementary	\$ _____
Morrison Elementary	\$ _____
Warren Academy	\$ _____
Warren Co. High School	\$ _____
Warren Co. Middle School	\$ _____
West Elementary	\$ _____

**Price Worksheet for Network Configuration 10GbE Backbone Project  
Warren County Schools**

**This form must be included in the bid documentation to be considered for award.**

This bid is offered for Network 10GbE Backbone Project as presented in this document.

\_\_\_\_\_  
Company Name  
Mailing Address

\_\_\_\_\_  
Signature  
Title

SPIN # \_\_\_\_\_

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2016

**Name and Contact Information for Project**

**Manager:** \_\_\_\_\_

**Price Worksheet for Eastside Elementary Cabling Project  
Warren County Schools**

**East Side Elementary**

In addition to the 10GbE backbone this school will include pricing for wiring classrooms and installing new MDF and IDF closets. Each classroom will have 6 drops CAT 6 cable average 200' each, cable terminated and certified from the MDF or IDF closet to the destination. Installation of rack equipment in MDF and IDF closets. Patch cables provided for each classroom drop and patch panel connection. Cable will be pulled inside of wall were possible and hidden in Panduit with surface mount boxes where necessary. See *Exhibit A*.

\*All components listed in the Network Component Section will be provided by the District.

**EASTSIDE Elementary** (see Exhibit A.)

Network cabling and 10GB Backbone (w/o wireless)                      \$ \_\_\_\_\_

**Price Worksheet for Eastside Elementary Cabling Project  
Warren County Schools**

**This form must be included in the bid documentation to be considered for award.**

This bid is offered for Eastside Elementary Cabling as presented in this document.

\_\_\_\_\_  
Company Name  
Mailing Address

\_\_\_\_\_  
Signature  
Title

SPIN # \_\_\_\_\_

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2016

**Name and Contact Information for Project**

**Manager:** \_\_\_\_\_



## School Locations

### **Bobby Ray Elementary**

504 N. Chancery Street  
McMinnville, TN 37110

### **Centertown Elementary**

376 Warrior Blvd  
McMinnville, TN 37110

### **Dibrell Elementary**

1759 Mike Muncey Rd  
McMinnville, TN 37110

### **Eastside Elementary**

2121 Old Rock Island Rd, Rock Island, TN 38581

### **Irving College Elementary**

115 Dry Creek Rd  
McMinnville, TN 37110

### **Morrison Elementary**

500 S. Fair Street  
Morrison, TN 37357

### **West Elementary**

400 Clark Blvd  
McMinnville, TN 37110

### **Hickory Creek Elementary**

270 Pioneer Lane  
McMinnville, TN 37110

### **Warren County Middle School**

200 Caldwell Street  
McMinnville, TN 37110

### **Warren County High School**

199 Pioneer Lane  
McMinnville, TN 37110

### **Warren Academy School**

421 North Spring St. McMinnville, TN 37110

Tables 1 and 2  
Wireless Access Points Needs  
Aerohive/Aruba or equivalent  
Includes cabling, installation & configuration

Table 1. Number of WAP's

<i>Location</i>	<i>Aerohive AP230/Aruba210 series or better</i>	<i>Aerohive AP130/Aruba 200 series or better</i>	<i>Aerohive AP370/Aruba 220 series or better</i>	<i>Total AP's</i>
Bobby Ray Elem	<b>44</b>	<b>5</b>	<b>2</b>	<b>51</b>
Centertown Elem	<b>33</b>	<b>3</b>	<b>2</b>	<b>38</b>
Dibrell Elem	<b>42</b>	<b>5</b>	<b>2</b>	<b>49</b>
Eastside Elem	<b>38</b>	<b>2</b>	<b>2</b>	<b>42</b>
Hickory Creek Elem	<b>50</b>	<b>4</b>	<b>2</b>	<b>56</b>
Irving College Elem	<b>17</b>	<b>3</b>	<b>2</b>	<b>21</b>
Morrison Elem	<b>34</b>	<b>4</b>	<b>2</b>	<b>38</b>
Warren Academy	<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>
Warren Co. High	<b>135</b>	<b>10</b>	<b>5</b>	<b>150</b>
Warren Co. Middle	<b>86</b>	<b>9</b>	<b>5</b>	<b>100</b>
West Elementary	<b>46</b>	<b>2</b>	<b>2</b>	<b>50</b>

Table 2. MDF & IDF's (See Exhibit B)

<i>Location</i>	<i>MDF</i>	<i>IDF's</i>
Bobby Ray Elem	<b>1</b>	<b>2</b>
Centertown Elem	<b>1</b>	<b>1</b>
Dibrell Elem	<b>1</b>	<b>4</b>
<b>Eastside Elem **</b>	<b>1</b>	<b>2</b>
Hickory Creek Elem	<b>1</b>	<b>3</b>
Irving College Elem	<b>1</b>	<b>1</b>
Morrison Elem	<b>1</b>	<b>2</b>
Warren Academy	<b>1</b>	<b>1</b>
Warren Co. High	<b>1</b>	<b>8</b>
Warren Co. Middle	<b>1</b>	<b>3</b>
West Elementary	<b>1</b>	<b>2</b>

**\*\*Included with East Side  
Cabling Project**

## EXHIBIT A

### Estimated Needs for Eastside Elementary w/10GbE backbone (Final Needs will be determined at the Required Pre-Bid Meeting)

Eastside Elementary (2121 Old rock Island Rd, Rock Island TN 38581) - Replace all old wiring, with approx. 6 drops per classroom including portables, and extra drops for offices, copy machine, etc. Components, as listed in Component Project, are provided by District.

*(Wireless drops are part of the WLAN section of this proposal)*

#### MDF:

1. APC AR3150 Cabinets
2. 48 port patch panels
3. Vertical and Horizontal cable management
4. APC Smart UPS(s) 2200Va with network management cards
5. Leviton (2RU) dual rack Fiber LIU w/High Density coupler units
6. HP Network Switch components
  - a. HP 5406R-Gig-T-PoE+/SFP+v2 zL2 switch
  - b. 24-port Gig-T-PoE+/v2 zl Module
  - c. 20-port Gig-T-PoE+/2-port 10GbE SFP+v2 zl module
  - d. HP 5400R 700W PoE+zl2 power Supply(s)
  - e. HP x132 10Gig SFP+LC Transceiver(s)
  - f. HP 2530 48G Switch(s)

#### IDF 1:

1. 19"WX84"T floor mounted equipment rack w/perforated lockable door
2. 48 port patch panels
3. Vertical and Horizontal cable management
4. APC Smart UPS 1500RM-2U with Network management card
5. Leviton (1RU) single rack Fiber LIU w/High Density coupler units
6. HP Network Switch components
  - a. HP 2530-48 G-PoE+2SFP+Switch
  - b. HPX132 10G SFP+LC Transceiver
  - c. HP 2530-48 G switch(s)

#### IDF 2:

1. 19"WX84"T floor mounted equipment rack w/perforated lockable door
2. 48 port patch panels
3. Vertical and Horizontal cable management
4. APC Smart UPS 1500RM-2U with Network management card
5. Leviton (1RU) single rack Fiber LIU w/High Density coupler units
6. HP Network Switch components
  - a. HP 2530-48 G-PoE+2SFP+Switch
  - b. HPX132 10G SFP+LC Transceiver
  - c. HP 2530-48 G switch

## **EXHIBIT B**

### **Estimated Needs for 10GbE backbone (Final Needs will be determined at the Required Pre-Bid Meeting) Components provided by District**

#### **MDF:**

- Leviton rack Fiber LIU w/High Density coupler units
- HP Network Switch components
  - 20-port Gig-T-PoE+/2-port 10GbE SFP+v2 zl module
  - HP x132 10Gig SFP+LC Transciever

#### **IDF's:**

- Leviton rack Fiber LIU w/High Density coupler units
- HP Network Switch components
  - HP 2530-48 G-PoE+2SFP+Switch
  - HPX132 10G SFP+LC Transceiver

Minimum OM3 fiber