

**Pearl Junior High School
Gym & Multipurpose Fire Alarm Replacement
BID #291**

Background

The Pearl Public School District is a premier school district in the heart of Mississippi. Its stakeholders include over 4200 students and their families, 530+ employees and the City of Pearl. Pearl School District is the pride of the community it serves and is consistently setting the bar for educational excellence.

Pearl Junior High has a current gymnasium and classroom structure with an existing fire alarm system, which is end of life and cannot be expanded. Due to recent expansion and renovation, this system is in need of replacement. Pearl Junior High is also undergoing a construction project of an additional structure, immediately behind the gymnasium facility. This structure will also need fire detection devices and systems to properly alert occupants and authorities of an alarm condition. The goal of this bid is to have one, fully addressable system, for both facilities.

Terminology

Throughout this document, Pearl Public School District may be referenced as 'the district' or 'PPSD'. Pearl Junior High School may be referenced as PJH. ChromeOS Laptop Device may be further referenced as 'chromebook'.

Contact Information

All questions should be directed to Kevin W. Knuckles, Director of Technology. Mr. Knuckles may be contacted using the following contact information:

Phone: 601.933.9003

E-Mail: kknuckles@pearlk12.com

Questions that do not require a full addendum will be repeated and answered to all vendors.

Addendums

If any addendums are needed they will be issued by the technology department. Each addendum will be numbered as follows:

CHROMEOS LAPTOP DEVICES, CHARGING CARTS, PJH FIRE ALARM :: PPSD BID #291 :: ADDENDUM #N

All qualified vendors will receive the addendum via e-mail. It is responsibility of the vendor to ensure they have all addendums before they submit their bid

Vendor Qualifications

ALL vendors are required to meet the following requirements:

- Must be authorized to sell and service ALL products proposed by the equipment manufacturer of the products they represent. (Vendors may be asked to provide documentation showing authorization)
- Valid contractors license for the State of Mississippi
- Valid certificate of insurance

Performance Bond

- Payment Bond: According to Mississippi Code § 31-5-51, the payment bond must be equal to 100% of the contract amount. This bond ensures that subcontractors, laborers, and material suppliers are paid in full for their work.
- Performance Bond: Per the same statute, the performance bond also must be equal to 100% of the contract amount. This bond guarantees the completion of the project in accordance with the contract terms and conditions.
- Bid Bond: According to Mississippi Code § 31-5-51, a bid bond must be submitted with a contractor's bid. This bond is typically set at 5% of the total bid amount. The purpose of the bid bond is to ensure that the bidder will enter into the contract if awarded and will provide the necessary performance and payment bonds.

General Requirements/Scope of Work

PART 1 – GENERAL

1.1 GENERAL

- A. Furnish and install a complete and operable fire alarm system in accordance with the provided drawings and all federal, state, and local codes. Equipment on the drawings represents the absolute minimum required for the project. Include costs for all other required devices and equipment required for a complete and operable code compliant system. Notify the district in writing of any devices required by code, but not shown, at least ten days prior to bid.
- B. Comply completely with the latest edition of all applicable federal, state, and local codes including, but not limited to the following:
 - 1) National Electrical Code (NFPA 70)
 - 2) Life Safety Code (NFPA 101)
 - 3) National Fire Alarm Code (NFPA 72)
 - 4) The International Building Code
 - 5) ANSI/ASME A17.1, Safety Code for Elevators and Escalators

1.2 SCOPE OF WORK

- A. Provide all enclosures, hardware, software, devices, and all other components, material, and labor required to install, configure, and test the entire system to the satisfaction of the Engineer and all authorities.
- B. All components of the system shall be new and manufactured by the same company. The system and its components shall be approved by UL and Factory Mutual.
- C. All components shall be non-proprietary system/hardware.
- D. All system components shall be installed by a franchised distributor of the fire alarm system having a repair and service department on call 24 hours a day, seven days a week. The repair and service department shall be located within 50 miles of the project.
- E. Vendor shall provide turn-up and test for performance and certification by local jurisdiction fire marshal. Deficiencies in system performance, identified by the fire marshal, shall be remedied by the vendor at no additional cost to the district.

PART 2 – PRODUCTS

- 2.1 Provide an intelligent, addressable fire alarm control panel complete with all equipment necessary to monitor and control the devices shown. The system shall sound a non-coded general alarm. Upon an alarm condition, the fire alarm control panel shall automatically report the alarm condition to a monitoring agency. Provide all telephone connections, circuitry, and conduit to perform this functionality back to the telephone backboard. [The fire alarm system shall be capable of producing voice announcements through the system speakers].
- 2.2 Provide a NiCad battery sized to operate the control panel without normal power for 24 hours, and then to alarm the panel continuously for at least five minutes. Submit battery sizing calculations with the manufacturer's cut sheets and shop drawings.
- 2.3 All devices shall be addressable and shall be electrically supervised.
- 2.4 Smoke detectors shall be of the photoelectric type.
- 2.5 Duct detectors shall be of the air sampling type. Furnish complete with sampling tubes and duct housings.
- 2.6 Pull stations shall be furnished with lexan shields and warning horns.

- 2.7 Horns shall be rated a minimum of 85 dB at 10'.
- 2.8 Speakers shall be square. They shall be wall-mounted to a 4" square box. They shall produce a minimum sound level of 85dB at 10'. They shall have adjustable taps for volume level adjustment.
- 2.9 Strobes shall have a nominal rating of at least 75 Cd.
- 2.10 Combination horn-strobe units or speaker-strobe units shall meet the specified requirements of the individual horns, strobes, and speakers.
- 2.11 Monitor all sprinkler system flow switches at the facility. Provide an alarm upon flow indication.
- 2.12 Monitor all sprinkler system tamper and supervisory switches at the facility. Provide a trouble signal upon tamper indication.
- 2.13 Provide duct detectors in the return duct of all air units. If a fresh air intake duct is installed, all duct detectors shall be mounted upstream of the intake duct. For air units with flow ratings greater than 15,000 CFM, provide duct detectors in both the return and supply ducts.
- 2.14 Provide all necessary relays and circuitry, and shut down all air units upon an alarm condition of the fire alarm system.
- 2.15 Provide all necessary equipment and circuitry to automatically release the magnetic door locks upon an alarm of the Fire Alarm System.
- 2.16 Conductors shall be #14 AWG copper rated THHN/THWN. Provide larger conductors where required to compensate for voltage drop.

PART 3 – EXECUTION

- 3.1 All components and circuitry shall be assembled and installed per the requirements of all applicable codes and the manufacturer's recommendations.
- 3.2 All devices shall be mounted with their boxes flush in the walls.
- 3.3 Smoke detectors shall be mounted at least 36" away from supply vents.

- 3.4 All outlet boxes, junction boxes, and cover plates shall be painted red.
- 3.5 The Fire Alarm System Contractor shall employ an independent third party testing agency to test and certify all system components, including each smoke detector, duct detector, and pull station prior to the pre-final inspection. All systems shall be completely operable prior to the request for an inspection by the fire marshal. System will be considered complete upon sign-off and certification by the fire marshal.
- 3.7 Provide a one-year warranty for the system and all components. The warranty shall begin at the date of final acceptance of the building. During the warranty period, the system shall be repaired or replaced as necessary at not cost to the district. During the warranty period, a technician shall be on the job site within twenty-four hours of a problem report from the district.
- 3.8 Monitoring
- Provide 24 hours a day, 7 days a week monitoring on fire alarms transmitted and provide appropriate dispatch response to the alarm
 - In general, the alarm monitoring firm will dispatch fire alarm to appropriate 911 dispatch center immediately on receipt of alarm
 - Knowledge and training made available for PJH and PPSD staff

Existing Conditions

- Vendors should use existing wiring in the PJH Gymnasium facility.
- The existing fire alarm has devices listed as:

Point	Description
1	Basement Existing TR Storage Smoke
2	Basement Existing TR Storage Smoke
3	Basement Hall Smoke
4	Basement Hall Smoke
5	Basement Hall Smoke
6	Basement Hall Smoke
7	Basement Existing Weight Room Pull
8	Basement 8th Grade Football Smoke
9	Basement 8th Grade Football Pull
10	Basement Existing Storage 1 Smoke
11	Basement Existing Laundry Smoke
12	Basement Toilet Hall Smoke
13	Basement Exiting 7th Grade Football Pull
14	Ground Floor Outside Post Indicator Valve
15	Fire Panel Equipment Room Smoke
16	Back Corridor Smoke
17	BB Office Smoke



18	Back Door Pull
19	Existing Corridor Smoke
20	Existing Corridor Smoke
21	Existing Corridor Smoke
22	Existing Corridor Smoke
23	Rear Side Door Pull
24	Men's Locker 2 Smoke
25	Men's Locker 1 Smoke
26	Women's Locker 2 Smoke
27	Women's Locker 1 Smoke
28	Corridor 109 Smoke
29	Corridor 109 Smoke
30	Corridor 109 Smoke
31	Corridor 109 Smoke
32	Corridor 109 Door Pull
33	Lobby Smoke
34	Gym Storage Room 107 Smoke
35	Storage Room 101 Smoke
36	Lobby Smoke
37	Storage Room 106 Smoke
38	Concession Smoke
39	Cart Storage Room 104 Smoke
40	Lobby Smoke
41	Lobby Smoke
42	Electrical Room Heat
43	Front Lobby Door Pull
44	Sprinkler Tamper
45	Sprinkler Flow
46	Mezzanine Heat

- The new multipurpose facility construction contractor is providing rough-ins for new fire alarm devices.
- Conduits are provided from the multipurpose facility to the PJH Gymnasium Structure.

Drawings and Documents

Links to the multipurpose building drawings and construction documents may be found at the following links:

Drawings

https://drive.google.com/file/d/1DW0B_LZHYFC5n1wdLFMBcaRrEgkxm-5V/view

Project Manual

<https://drive.google.com/file/d/1U5mrDhk5NuGrpAbfhiWEEtwzMCnknlsW/view>



Pearl Public School District

Office of Technology

Site Visit

Vendors may schedule a site visit by contacting Kevin Knuckles at kknuckles@pearlk12.com or by calling 601.933.9003.

Bid Submission

Sealed bids must be submitted via hand delivery, postal service, or package service no later than 2:00 on July 5, 2024, to the following address:

Pearl Public School District
RE: BID #291
3375 HWY 80 E
Pearl, MS 39208

Bids received after this time will be discarded. It is the vendor's responsibility to ensure their bid has been received by the appropriate time. It is recommended, for those mailing in via postal or package delivery services, that signatures are required upon delivery.

Electronic Submission

Those vendors wishing to utilize electronic submission may do so via secure upload to OneDrive. Vendors shall contact Cindy Grantham cgrantham@pearlk12.com , 601.932.7921, to get a secure folder invitation. Vendors will be allowed to upload their bid response to that location.

ALL Bid packets, electronic or otherwise, MUST include the following documents:

- Vendor Contact Sheet (Listed as Attachment A)
- Documentation/Proof of Met Qualifications listed in section 'Vendor Qualifications'
- Vendor Bid

Any bid packet without all documents may be rejected.

The Pearl Public School District Board of Trustees reserves the right to reject all bids.

Public Bid Opening

A public bid opening will be held at the Pearl Public School District Central Office Complex, 3375 HWY 80 E, Pearl MS 39208, at 2:00 PM on July 3, 2024. Vendors are not required to attend the bid opening in order to be awarded the bid. Bids will be reviewed for accuracy, completeness, and comparison if vendors choose to quote equivalent products. The lowest and best bid will be recommended to the PPSD Board of Trustees. The winning vendor will be notified after board approval.



Pearl Public School District

Office of Technology

Attachment A

Vendor Contact Sheet

Company Name	
Company Address	
Representative Name	
Representative E-Mail Address	
Representative Telephone #	

By signing below, the vendor acknowledges that the prices listed in this bid packet are being bid for the Pearl Junior High School Gym & Multipurpose Fire Alarm Project. The vendor also acknowledges and understands that portions of this project may be funded from E-Rate funds and is subject to funding availability.

Printed Name _____ Title _____

SIGNED _____