

#2022-09

for

FIRE STATION ALERTING SYSTEM

JOPLIN FIRE DEPARTMENT
303 E. THIRD ST. JOPLIN,
MO 64801

NOTICE TO BIDDERS

The City of Joplin, Missouri will accept sealed bid proposals until **10:30 am, Tuesday, September 06, 2022**, at the Joplin Fire Department located at 303 E. Third St., Joplin, Missouri, 64801 to PURCHASE the following:

FIRE STATION ALERTING SYSTEM

Specifications and bid forms are available from Deputy Chief Andy Nimmo, Joplin Fire Department, by calling 417-624-0820 ext. 1301 or by writing to the address indicated above. Any bids received after the specified deadline will be returned to the vendor.

The City reserves the right to evaluate all bids, to reject any or all bids and re- bid at a later date. The City may waive any irregularities in the bid or negotiate variances from specifications, and make awards that are in the best interests of the City. The City will have final decision in all matters regarding acceptance of bids and issuance of awards.

The City encourages minority and female owned businesses to submit bids on all City purchases.

Leslie Haase, CPA Finance
Director

Publication Date: ***Wednesday, August 10, 2022***

INSTRUCTIONS TO BIDDERS

The City of Joplin, Missouri proposes to PURCHASE the following:

The city of Joplin is considering the replacement of its fire station alerting system or the potential upgrade to current antiquated fire station alerting systems. Currently, the city of Joplin has six (6) fire stations that are operating with a Zetron© fire station alerting system that has reached the end of its service life. In addition to those six (6) fire stations, the city of Joplin is currently in the construction phase of a seventh fire station that will be included in the need for a turn-key operational fire station alerting system.

To complete this request for bid, for each specification requested please indicate by circling the correct statement that your product "meet specifications as written", "fails to meet specification", or "exception". If you circle exception, you **must** fill out an explanation on the exception documentation pages provided. This explanation should include why you have indicated it as an exception and what your counterproposal is for the specification written.

Finally, the bid that you submit shall be itemized by Station and will include a bid for each station that is listed. Your bid proposal shall also include a total bid price for all stations combined.

Bid Evaluation

Bid evaluations will be conducted by the Fire Department Deputy Chief, the Communications Manager, and a member of Building Maintenance. Bids will be scored based on the following:

- Cost – 50%
- Adherence to Specifications – 25%
- Evaluation of Maintenance and Warranty Agreements – 25%

MARK BID ENVELOPES: **"BID #2022-09; FIRE STATION ALERTING SYSTEM, 10:30 A.M., TUESDAY, SEPTEMBER 06, 2022"**

Questions concerning the specifications and bidding procedures should be directed to Deputy Chief Andy Nimmo, Joplin Fire Department at 303 E. Third St., Joplin, MO, 64801 or by phoning 417-624-0820 ext. 1301

STATION ALERTING SYSTEM SPECIFICATIONS

CAD Integration

The Fire Station Alerting System (FSAS) should have the capability to interface with the Joplin 911 Center's computer aided dispatch (CAD) systems. Currently the city of Joplin operate the OSSI through Central Squared CAD system. Our 911 Center is currently transitioning to One Solution powered by Central Squared with an expected completion time in 2023.

The proposed solution shall be turn-key and all installation necessary for CAD integration will be provided by the vendor unless otherwise agreed upon due to proprietary issues of integrating with specific radio and console systems. If that is the case the selected vendor will supply specific guidance for the correct installation of their proposed solution with current CAD and radio systems. All associated fees for CAD Integration shall be included in the bid including any fees charged by the CAD vendor for CAD integration.

Radio System

The radio system currently being utilized by the city of Joplin is a Motorola Astro P-25 TRS. The proposed FSAS solution shall have full connectivity to this system. Additionally, the city of Joplin uses a MCC7500 console for dispatching and the FSAS solution must be able to integrate into the consoles in a manner that will provide our 911 telecommunicators the ability to quickly identify and use components of the FSAS solution.

Redundancy

Due to the reliance on fire station alerting by emergency personnel to be quickly notified of an emergency event, it is imperative that redundant capabilities are included within the proposed solution for the FSAS.

This redundancy should include the following:

- Redundant alerting connectivity using the proposed radio network
- Utilization of the trunked radio system as a secondary alerting path in the event of a primary LAN failure
- The FSAS solution must be able to recognize a primary outage of the LAN and then automatically re-route alerts through an alternate path to maintain alerting capabilities.

- The transition from the LAN based transport shall be seamless and not require the alerting system manager to manually configure the system for alerts to be received at the affected stations.
- Transfer from the LAN based notification to radio-based notification cannot take place unless the alerting system is aware of a LAN outage. This may require that the alerting system poll the fire stations to see if a communication path exists and/or require an acknowledgment from the stations to assure that an alert has been received.
- Alarms for outages are important but it is imperative that the solution provide an automated method to transfer to a secondary means of notification in the event an alarm is not noticed.
- Costs associated with necessary radio configurations to prepare a secondary alerting pathway are considered within the scope of this project.

Specifications Required

The proposed FSAS solution must be able to provide the following components and/or capabilities:

Specification #	Specification	Response
1	Centralized gateway or portal server (redundant for non-single point failure) to interface with the current CAD system	Meets Specification as Written Fails to Meet Specification Exception
2	Master alerting controller to distribute alerts to all current and future fire stations.	Meets Specification as Written Fails to Meet Specification Exception

3	System management console and software for configuring the alerting system interfaces, functions, capabilities, and reporting various alarm conditions.	Meets Specification as Written Fails to Meet Specification Exception
4	One (1) or more local alerting controller within each fire station.	Meets Specification as Written Fails to Meet Specification Exception
5	Local alerting controller(s) to digitally interconnect with ancillary data or display equipment located within each fire station using standard TIA/EIA 568 Cat 5 cabling or optionally by using a wireless access point.	Meets Specification as Written Fails to Meet Specification Exception
6	Indoor/Outdoor speakers with independent volume adjustments, dry contact alarm points, and other auxiliary control devices are typically connected with copper cabling. A speaker shall be included for each bedroom, day room, kitchen, and office within each fire station as shown on attached floor plans.	Meets Specification as Written Fails to Meet Specification Exception
7	Alternate lighting shall be provided that will illuminate with a "soft" light upon an alert being activated. This alternate lighting shall be in each bedroom, hallways, and living space to provide visual notification of an alert as well as provide the ability to see if standard station lights have been turned off as shown on attached floor plans.	Meets Specification as Written Fails to Meet Specification Exception
8	A visual alert device such as a colored strobe will be placed in fitness rooms of stations as shown on attached floor plans.	Meets Specification as Written Fails to Meet Specification Exception
9	Fire stations with multiple apparatus will be provided with necessary control devices to select which apparatus they wish to be alerted to within their bedrooms. These stations are Station #1 and Station #5 on the attached floor plans.	Meets Specification as Written Fails to Meet Specification Exception

10	Ability to turn off stoves within each fire station to prevent a fire from occurring if an alert is received while personnel are cooking on the stove. Additionally, a reset switch will be available to turn the stove back on.	Meets Specification as Written Fails to Meet Specification Exception
11	A display board that will show a real time status update of all in-service units will be placed in locations shown on the attached floor plans.	Meets Specification as Written Fails to Meet Specification Exception
12	Time synchronization with the city of Joplin LAN system.	Meets Specification as Written Fails to Meet Specification Exception
13	System controller powered by AC or DC power supplies.	Meets Specification as Written Fails to Meet Specification Exception
14	Fire Station alerts sent via IP network	Meets Specification as Written Fails to Meet Specification Exception
15	Capability for fire station alerts to be sent via P25 radio system	Meets Specification as Written Fails to Meet Specification Exception
16	Alerting system managed in real time.	Meets Specification as Written Fails to Meet Specification Exception
17	CAD interface	Meets Specification as Written Fails to Meet Specification Exception
18	Station audio from digital voice or fire call-taker	Meets Specification as Written Fails to Meet Specification Exception

19	Dispatch console interface	Meets Specification as Written Fails to Meet Specification Exception
20	Automated voice dispatching	Meets Specification as Written Fails to Meet Specification Exception
21	Outside audio control in bay areas	Meets Specification as Written Fails to Meet Specification Exception
22	Dual mode alert lighting	Meets Specification as Written Fails to Meet Specification Exception
23	Dormitory alerting (visual and audible)	Meets Specification as Written Fails to Meet Specification Exception
24	Pre-alert tone capability	Meets Specification as Written Fails to Meet Specification Exception
25	Preset day and night volume levels inside and outside each fire station	Meets Specification as Written Fails to Meet Specification Exception
26	Alerting system with multiple audio inputs and outputs	Meets Specification as Written Fails to Meet Specification Exception
27	Firmware/configuration upgraded remotely via network	Meets Specification as Written Fails to Meet Specification Exception

28	Ability to segment a fire station into separate areas or zones	Meets Specification as Written Fails to Meet Specification Exception
29	Firmware/configuration upgraded remotely via network	Meets Specification as Written Fails to Meet Specification Exception
30	Ability to segment a fire station into separate areas or zones	Meets Specification as Written Fails to Meet Specification Exception
31	Alert system monitoring and alarms should failures occur	Meets Specification as Written Fails to Meet Specification Exception
32	Automatic station alert reset after a programmed or predetermined elapsed time	Meets Specification as Written Fails to Meet Specification Exception
33	Ability to support current technology within the 911 centers	Meets Specification as Written Fails to Meet Specification Exception
34	Emergency alert switch for in-station emergencies	Meets Specification as Written Fails to Meet Specification Exception
35	Fire station test switch to check local alerting system integrity and function	Meets Specification as Written Fails to Meet Specification Exception
36	Egress lighting	Meets Specification as Written Fails to Meet Specification Exception

37	Alert acknowledgement switch	Meets Specification as Written Fails to Meet Specification Exception
38	Non-proprietary hardware	Meets Specification as Written Fails to Meet Specification Exception

Site Evaluation

It is understood that to provide an accurate bid for this portion of the RFP it will be necessary to make site visits at fire stations to adequately evaluate what can be utilized by current infrastructure and what will be needed to meet the specifications requested. Anyone wishing to perform a site visit must contact the appropriate contact for the fire agency to schedule a date and time to perform those site visits.

The city of Joplin will be participating in this RFP for the FSAS solution, contact for the Joplin Fire Department is Deputy Chief Andy Nimmo, 417-624-0820 ext. 1301. Plans for the seventh fire station may be available as well, however, a consultation with the architect for that project should be considered.

EXCEPTIONS

Specification #	Exception Explanation
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	

22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	

33	
34	
35	
36	
37	
38	

STATION FLOOR PLANS

Station #1 – 303 E. Third St. (Zoned Bedrooms for Different Response Units)


Red Lighting (9)


Gas Shutoff for Stove (1)


Ceiling Mounted Speaker (12)

Status Board (1)


Wall Mounted PA Speaker (2)


Blue Wall Strobe (1)

Station #2 – 2825 W. Junge Blvd

 Red Lighting (17)

 Ceiling Mounted Speaker (13)

 Wall Mounted PA Speaker (2)

 Gas Shutoff for Stove (1)

Status Board (1)

 Blue Wall Strobe (1)

Station #3 – 2717 E. Newman Rd.

 Red Lighting (3)

 Ceiling Mounted Speaker (7)

 Wall Mounted PA Speaker (1)

 Gas Shutoff for Stove (1)

Status Board (1)

Station #4 – 3402 S. Main St. (First Floor)

Red Lighting (3)

Ceiling Mounted Speaker (3)

Wall Mounted PA Speaker (1)

Gas Shutoff for Stove (1)

Status Board (1)

Station #4 – 3402 S. Main (Second Floor)


Red Lighting (10)


Ceiling Mounted Speaker (8)


Wall Mounted PA Speaker (0)


Gas Shutoff for Stove (0)

Status Board (0)


Blue Wall Strobe (1)

Station #5 – 3223 S. Texas (Zoned Bedrooms for Different Response Units)

Red Lighting (5)

Gas Shutoff for Stove (1)

Ceiling Mounted Speaker (8)

Status Board (1)

Wall Mounted PA Speaker (2)

Blue Wall Strobe (1)

Station #6 – 5002 W. 32nd Street

 Red Lighting (19)

 Ceiling Mounted Speaker (14)

 Wall Mounted PA Speaker (2)

 Gas Shutoff for Stove (1)

Status Board (1)

 Blue Wall Strobe (1)

Station #7 – 6720 E. 30th Street

 Red Lighting (17)

 Ceiling Mounted Speaker (12)

 Wall Mounted PA Speaker (2)

 Gas Shutoff for Stove (1)

Status Board (1)

 Blue Wall Strobe (1)

Unauthorized Aliens Workers Act

The successful bidder will have to sign an agreement that they are enrolled and participating a Federal Work Authorization Program ("FWAP") that ensures that all of its employees or agents or subcontractors have the legal right to work in the United States, as defined in 8 U.S.C. 1324a(h)(3) and RSMo § 285.525-285.555, and that it will maintain this compliance for the entire duration of its contract with the City of Joplin, and will provide an Affidavit of Compliance to the City stating the same.

AFFIDAVIT OF COMPLIANCE
(Missouri Unauthorized Alien Workers Act)

My name is ___ (name) _____and I am the _____ (Title) _____ of _____(Company Name) _____. I hereby represent, affirm and certify to the City of Joplin that my company does not knowingly employ any person who is an unauthorized alien in connection with contracted services with the City. I further affirm that my company is actively enrolled and participating in a federal work authorization program with respect to all employees working in connection with the contract services provided to the City.

Affiant