



City of Roanoke Invitation for Bid

Date: October 2, 2007

Bid Number: 08-08-11		Bid Opening Date: October 23, 2007		
RPAT Sound System Repair and Upgrade		Bid Opening Time: 2:00 p.m.		
Legal Name of Bidder:				
Mailing Address:				
Terms:				
Delivery:				
Phone:		Fax:		E-mail:
Acknowledge each addendum received:	# Date	# Date	# Date	# Date
Printed name of authorized person submitting Bid:				
Signature:			Date:	
Issued by:	City of Roanoke Purchasing Division Noel C. Taylor Municipal Building 215 Church Ave SW, Room 202 Roanoke, VA 24011		Lisa Guevara, Senior Buyer Phone: 540-853-5646 Fax: 540-853-1513 Email: lisa.guevara@roanokeva.gov	

THIS PUBLIC BODY DOES NOT DISCRIMINATE AGAINST FAITH BASED ORGANIZATIONS

No Bid may be withdrawn within a period of sixty (60) days after Bid opening except for clerical errors, as set forth in part (i) of Section 2.2-4330(A), Virginia Code, 1950, as amended.

The City reserves the right to cancel or reject any or all Bids and to waive any informalities in any Bid.

This Invitation for Bid consists of these parts:

1. All Sections of the Invitation for Bid.
2. Bid Form (Attachment A).
3. Sample Contract (Attachment B).

**CITY OF ROANOKE, VIRGINIA
INVITATION FOR BID NO. 08-08-11**

SECTION 1. PURPOSE.

The purpose of this Invitation for Bid (IFB) is the procurement of the repair and upgrade of the Roanoke Performing Arts Theater (RPAT) sound system, located at the Roanoke Civic Center, 710 Williamson Road, Roanoke, Virginia.

The City of Roanoke invites any qualified Bidder to respond to this IFB by submitting a Bid for such work, service, and/or items consistent with the terms and conditions herein set forth.

SECTION 2. BACKGROUND.

The existing sound in the RPAT is a 36-year old analog system which was originally designed to have a 10-year lifespan. This system is no longer functional for events in the RPAT; therefore, a new digital system has been designed to upgrade the loudspeaker system. Whereas, this is not a total replacement of the entire sound system, this upgrade will improve the integrity of the sound currently provided in the RPAT.

This loudspeaker, amplification, and control system has been designed to provide very uniform high-fidelity speech and music sound coverage to each seat in the Roanoke Performing Arts Theatre. This system will be ideal for all sorts of sound productions including live theatre and musicals, speech reinforcement, and moderate volume music amplification. The system shall consist of a new overhead center cluster loudspeaker array that will replace all of the components of the existing system. In addition, six portable low profile stage fill loudspeakers shall be included to provide sound coverage to the front rows of seating (and in the orchestra pit if that area is also seated). This system is specifically designed to provide the best possible gain before feedback for theatrical and drama applications. However, because of this reduced level of sound spilling down onto the stage (where the microphones are located), there will not be much sound coverage from the overhead loudspeakers for the first several rows of seats. This portable stage fill loudspeaker system can be used whenever sound coverage is required in these front rows of seats without reducing the available microphone gain before feedback. A new amplifier rack that will house all of the amplifiers and system processing shall be placed up in the catwalk next to the loudspeakers. The Civic Center will be responsible for providing new electrical service for this equipment, though the internal power distribution to each piece of equipment in the rack has been provided for in the system's design and such power distribution shall be provided by the Successful Bidder. The existing mixing console, outboard equipment (CD players, microphones, etc.), and all wiring will be re-used.

Bidders that desire to view the RPAT and/or view full-size plans prior to submitting a bid shall contact Mina Boyd, Director of Civic Facilities, at 540-853-2367 or wilhemina.boyd@roanokeva.gov, to arrange such a visit. Full-size plans are only available to view in person and will not be available in any other format.

SECTION 3. SERVICES AND/OR ITEMS REQUIRED.

A description and/or listing of the services and/or items that the Successful Bidder will be required to provide to the City under this IFB are those that are set forth below and/or referred to in any way in the sample contract, any terms and conditions, and/or any attachments referred to in this IFB. Each Bidder should carefully read and review all such documents.

SECTION 4. REQUIRED QUALIFICATIONS FOR BIDDERS.

Bidders shall be Class A Contractors and Certified Audio Engineers and shall be able to provide complete installation and tune and calibrate the sound system.

SECTION 5. TERM OF CONTRACT OR TIME OF PERFORMANCE.

- A. The original term of the Contract is sixty (60) days. The Successful Bidder shall start the performance of any resultant Contract as fixed by a notice to proceed given by the City to the Successful Bidder and fully and completely perform the Contract within sixty (60) consecutive calendar days after such date, all in accordance with the Contract provisions.
- B. At the City's option, the Contract may be renewed for up to three (3) additional sixty (60) day periods or any combination thereof. The City may exercise its option by giving written notice of such to the Contractor at least sixty (60) days before the expiration of the original term or any renewal term of the contract.
- C. All terms and conditions shall remain in force for the term of the Contract and for any renewal period unless modified by mutual agreement of both parties. Prices shall not be increased during the initial term of the Contract. Prices for any renewal periods will be subject to the mutual agreement of both parties, but if no agreement on the prices for such renewal period is reached between the parties and the Contract is renewed, Contractor agrees that the prices and/or amount for any such renewal period shall not be increased by more than 5% of the prices/amount for the prior year of the Contract.

SECTION 6. PAYMENT FOR SERVICES.

Payment(s) to the Successful Bidder shall be made in accordance with the provisions of the resultant Contract or purchase order, subject to final approval by the City.

SECTION 7. GENERAL INSTRUCTIONS TO BIDDERS.

- A. Sealed Bids, to be considered, must be received by the City of Roanoke in the Purchasing Division, 215 Church Avenue, S.W., Noel C. Taylor Municipal Building, Room 202, Roanoke, Virginia 24011, at or before 2:00 p.m., local time, on October 23, 2007, at which time all Bids received will be publicly opened and read. Bids received after 2:00 p.m. will not be accepted or considered. The time of receipt shall be determined by the time clock stamp in the Purchasing Office, or if it is not working, such time shall be determined by the Purchasing official who is to open the Bids. The IFB and related documents may be obtained during normal business hours from the Purchasing Division (540) 853-2871, or from the City web site at www.roanokeva.gov/purchasing ... Current Bid/RFP Request.

The sealed envelope shall be clearly marked on the front of that envelope with the notation and completed information as follow: **"Sealed Bid Number: _____**
Opening Date: _____ and Time: _____".

FAXED OR E-MAILED BIDS ARE NOT ACCEPTABLE.

- B. **If you download this IFB from the City website, and intend to submit a Bid, you must notify Purchasing that you should be added to the list of entities having received a**

copy of the IFB and want to receive any addenda issued. The City is not responsible for any IFB obtained from any source other than the City, and may not accept Bids from those who download this IFB and fail to notify the City of their intent to submit a Bid. Contact Purchasing by phone at 540.853.2871, by fax at 540.853.1513 or by email at lisa.guevara@roanokeva.gov.

- C. Payment terms and delivery date(s) must be shown on the submitted Bid, if applicable.
- D. All Bids are to be submitted in accordance with all terms, conditions, rules, regulations, requirements and specifications identified in and by this IFB.
- E. Bids are to be on the Form as provided with or as otherwise specified in this IFB. If a Bid Form is provided, no changes are to be made to the Bid Form. Any changes to Bid amounts must be initialed.
- F. All Bids shall be signed by a person on behalf of the responding Bidder who is appropriately authorized to do so. The printed name of that authorized person should be shown as well. Any Bid submitted should be in the complete legal name of the Bidder responding. No Bid will be considered from any Bidder not properly licensed as may be required by law.
- G. Bids that have been appropriately opened cannot be changed, adjusted, corrected or modified in any way other than complete withdrawal. The City's procedures for withdrawal of bids (whether construction or other than construction) is that set forth in Code of Virginia, §2.2-4330(A)(i), which allows withdrawal of a Bid due to an error such as an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a Bid, which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the Bid. Withdrawal must be requested within two days of the Bid opening by delivering to the City original work papers, documents, and materials used in preparation of the Bid.
- H. All Bids, appropriately received, will be evaluated by considering the requirements set forth in the IFB, the quality, workmanship, economy of operation, suitability for intended purpose, delivery, payment terms and price of product or service being requested in this Bid.
- I. Bids are to be submitted on the type, brand, make, and/or kind of product and/or service requested or its approved equal, to be solely determined by the City, unless otherwise specified. Should a Bid be for a product and/or service as an equal, the name, make, model and type of that which is being Bid must be clearly stated. The Bid must also be accompanied by descriptive literature of the product or service Bid to allow for evaluation. Failure to provide this information may result in the Bid being considered non-responsive and may not be considered.
- J. If an award is made for the item(s) and/or services requested, a notice of award will be made which will be posted to a file in the City's Purchasing Division, Room 202, telephone no. 540-853-2871, and notification of such award will be made available for Public view in the lobby of the Noel C. Taylor Municipal Building, 215 Church Ave., S.W., Roanoke, VA. 24011. Purchase Orders, when awarded to the Successful Bidder, will be issued and sent to the address shown on the Bidder's Bid response. Upon completion of the Purchase Order, payment will be made only to the Successful Bidder at the address as shown on the

Purchase Order. If the remittance address is other than the address on the Bid, it must be clearly noted and explained in the Bid. Purchase Order(s) will be paid only when the items and/or services have been supplied to and approved by the City.

- K. All items, identified in this IFB, are to be quoted and provided **F.O.B. DESTINATION-INSIDE DELIVERY**, unless otherwise stated in this IFB. All furniture items, if any, are to be put together and set in place.
- L. The City reserves the right to cancel this IFB or reject any or all Bids, to waive any informalities in any Bid and to purchase any whole or part of the items and/ or services listed in the IFB.
- M. Each Bidder is to notify in writing the Purchasing Division if any of Bidder's owners, officers, employees, or agents, or their immediate family members, is currently or has been in the past year, an employee of the City of Roanoke or has any responsibility or authority with the City that might affect the procurement transaction or any claim resulting therefrom. If so, please provide the Purchasing Division with the complete name and address of each such person and their connection to the City of Roanoke. Each Bidder is advised that the Ethics in Public Contracting and Conflicts of Interests Act of the Code of Virginia, as set forth in this IFB, apply to this IFB. Such information should be provided in writing before the Bid opening date or may also be provided with the Bid response.
- N. **The attention of each Bidder is directed to VA Code Sections 54.1-1100 et seq. which requires certain licenses for contractors, tradesmen and others. Each Bidder is required to determine which license, if any, it is required to have under such sections. Each Bidder shall so state on the Bid Form, or in its response, if no Bid Form is provided, whether it has a VA license under such sections and, if so, the type of license and/or license number. Failure to include this information may result in the Bid being rejected as non-responsive.**
- O. **Bid Submittals shall include:**
 - 1. Page 1, Invitation for Bid
 - 2. Pages 10-14, The Bid Form (Unit Cost shall include all labor, material, delivery costs, overhead and profit.)

Failure to do so may result in the Bid being determined as non-responsive.

Questions or concerns may be addressed by contacting the Purchasing Division at (540) 853-2871.

Reply To:

**Lisa Guevara, Senior Buyer
City of Roanoke Purchasing Division
Noel C. Taylor Municipal Building
215 Church Avenue SW, Room 202
Roanoke, Virginia 24011**

- P. Ethics in Public Contracting. The provisions, requirements, and prohibitions as contained in Sections 2.2-4367 through 2.2-4377, of the Virginia Code, pertaining to bidders, offerors, contractors, and subcontractors are applicable to this IFB.

- Q. Conflict of Interests Act. The provisions, requirements, and prohibitions as contained in Sections 2.2-3100, et seq., of the Virginia Code are applicable to this IFB.
- R. The procurement provisions of the Code of the City of Roanoke (1979), as amended, Sections 23.2-1, et seq., as well as the City Procurement Manual, apply to this IFB, unless specifically modified herein. The City's Procurement Manual can be reviewed at the Purchasing office.
- S. The City may request additional information, clarification, or presentations from any of the Bidders after review of the Bids received.
- T. The City is not liable for any costs incurred by any Bidder in connection with this IFB or any response by any Bidder to this IFB. The expenses incurred by a Bidder in the preparation, submission, and presentation of the Bid are the sole responsibility of the Bidder and may not be charged to the City.
- U. General and/or technical questions regarding the Scope of Services and/or items required, or procurement questions under this IFB may be directed to Lisa Guevara, Senior Buyer, at 540-853-5646, or faxed to 540-853-1513
- V. Each Bidder is required to state if it has ever been debarred by any federal, state, or local government. If so, please give the details of each such matter and include this information with Bidder's response.

SECTION 8. MISCELLANEOUS.

- A. Ownership of all data, materials, and documentation originated and prepared for the City pursuant to the IFB shall belong exclusively to the City and be subject to public inspection in accordance with the *Virginia Freedom of Information Act*. The trade secrets or proprietary information submitted by the Bidder shall not be subject to public disclosure under the *Freedom of Information Act*, unless otherwise required by law or a court. **However, the Bidder must invoke the protection of Section 2.2-4342(F) of the Code of Virginia, in writing, either before or at the time the data or other material is submitted.** The written notice must SPECIFICALLY identify the data or materials to be protected and state the reason why protection is necessary. The proprietary or trade secret material submitted must be identified by some distinct method such as highlighting or underlining and must indicate only the specific words, figures, or paragraphs that constitute trade secret or proprietary information. The classification of an entire proposal document, line item prices, and/or total proposal prices as proprietary, or trade secrets, is NOT ACCEPTABLE and may result in REJECTION of the Bid.
- B. Any interpretation, correction, or change of the IFB will be made by an addendum. Interpretations, corrections or changes of this IFB made in any other manner will not be binding and Bidders must not rely upon such interpretations, corrections, or changes. The City of Roanoke Purchasing Division will issue Addenda. Addenda will be faxed or mailed to all who are listed as having received the IFB package.
- C. No Bidder shall confer on any public employee having official responsibility for a purchasing transaction any payment, loan, subscription, advance, deposit or money, service, or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value is exchanged.

- D. The City may make investigations to determine the ability of the Bidder to perform the work and/or provide the services and/or items as described in this IFB. The City of Roanoke reserves the right to reject any Bid if the Bidder fails to satisfy the City of Roanoke that it is qualified to carry out the obligations and requirements requested in this IFB.
- E. The Successful Bidder must comply with the nondiscrimination provisions of Virginia Code Section 2.2-4311, which are incorporated herein by reference.
- F. The Successful Bidder must comply with the drug-free workplace provisions of Virginia Code Section 2.2-4312, which are incorporated herein by reference.
- G. It is the policy of the City of Roanoke to maximize participation by minority and women owned and small business enterprises in all aspects of City contracting opportunities.
- H. The Successful Bidder shall comply with all applicable City, State, and Federal laws, codes, provisions, and regulations.
- I. Providers of any outside services and/or items shall be subject to the same conditions and requirements as the Successful Bidder in regards to law, code, or regulation compliance. The City reserves the right of approval for any subcontract work, including the costs thereof.

SECTION 9. EVALUATION FOR LOWEST RESPONSIVE AND RESPONSIBLE BIDDER.

To determine the lowest responsive and responsible Bidder with respect to this Bid, the following factors, among such others as will protect and preserve the interest of the City may be considered:

- A. Total extended Bid price as set forth on the Bid Form.
- B. The specified terms and discounts, if any, of the Bid;
- C. The ability, capacity and skill of the Bidder to perform the contract and/or provide the services and/or items required;
- D. Whether the Bidder can perform the Contract and/or perform the services and/or provide the items promptly, or within the time specified, without delay or interference;
- E. The character, integrity, reputation, judgment, experience and efficiency of the Bidder;
- F. The quality of performance on previous contracts or services;
- G. The previous and existing compliance by the Bidder with laws and ordinances relating to other contracts, purchase orders, items and/or services provided by Bidder in other matters.
- H. The equipment and facilities available to the Bidder to perform the Contract and/or provide the services and/or items requested in the IFB;
- I. The sufficiency of the financial resources and ability of the Bidder to perform the Contract and/or provide the services and/or items requested in the IFB;.
- J. The quality, availability, and adaptability of the supplies, materials, equipment and/or services the Bidder can provide for the particular use and/or work requested in the IFB; and
- K. The ability of the Bidder to provide future maintenance, parts, and service for the items requested in the IFB.

SECTION 10. CONTRACTOR'S AND SUBCONTRACTOR'S INSURANCE.

Successful Bidder, and any of its subcontractors, shall, at its sole expense, obtain and maintain during the life of the resulting Contract the insurance policies and/or bonds required. Any required insurance policies and/or bonds shall be effective prior to the beginning of any work or other performance by successful Bidder, or any of its subcontractors, under any resultant Contract. The policies and coverages required are those as may be referred to in the sample contract and/or the

terms and conditions attached to this IFB, but shall include workers' compensation coverage regardless of the number of employees, unless otherwise approved by the City's Risk Manager.

SECTION 11. NEGOTIATIONS WITH LOWEST RESPONSIVE AND RESPONSIBLE BIDDER.

If the Bid by the lowest responsive and responsible Bidder exceeds available funds, the City reserves the right to negotiate with the apparent low Bidder pursuant to §2.2-4318 Code of Virginia. The conditions and procedures under which such negotiation may be undertaken are that the appropriate City officials shall determine that the lowest responsive and responsible Bid exceeds available funds and notify such Bidder in writing of its desire to negotiate. Thereafter, negotiations with the apparent low Bidder may be held to obtain a contract within available funds involving discussions of reduction of quantity, quality, or other cost saving mechanisms. Any such negotiated contract shall be subject to final approval of the City, in the sole discretion of the City.

SECTION 12. BID AWARD.

If an award of a Contract/Purchase Order is made, it will be made to the lowest responsive and responsible Bidder and notice of the award or the intent to award will be made by posting a notice of such award or announcement in the foyer area of the 2nd Floor of the Noel C. Taylor Municipal Building at 215 Church Avenue, S.W., Roanoke, Virginia 24011.

SECTION 13. FAITH BASED ORGANIZATIONS.

Pursuant to Virginia Code Section 2.2-4343.1, be advised that the City does not discriminate against faith-based organizations.

SECTION 14. HOLD HARMLESS AND INDEMNITY.

Successful Bidder shall indemnify and hold harmless the City and its officers, agents, and employees against any and all liability, losses, damages, claims, causes of action, suits of any nature, costs, and expenses, including reasonable attorney's fees, resulting from or arising out of Successful Bidder's or its employees, agents, or subcontractors actions, activities, or omissions, negligent or otherwise, on or near City's property or arising in any way out of or resulting from any of the work or items to be provided under the Contract, and this includes, without limitation, any fines or penalties, violations of federal, state, or local laws or regulations, personal injury, wrongful death, or property damage claims or suits. Successful Bidder agrees to and shall protect, indemnify, and hold harmless all the parties referred to above from any and all demands for fees, claims, suits, actions, causes of action, settlement or judgments based on the alleged or actual infringement or violation of any copyright, trademark, patent, invention, article, arrangement, or other apparatus that may be used in the performance of the Contract.

SECTION 15. PROTESTS.

Any Bidder who wishes to protest or object to any award made or other decisions Pursuant to this IFB may do so only in accordance with the provisions of Sections 2.2-4357, 4358, 4359, 4360, 4363, and 4364 of the Code of Virginia, and only if such is provided for in such Code section.

SECTION 16. COOPERATIVE PROCUREMENT.

The procurement of goods and/or services provided for in this Contract is being conducted pursuant to Virginia Code Section 2.2-4304. **Therefore, the Contractor agrees that it will contract with Roanoke County, City of Salem, Town of Vinton, or any other public agency or body in the Western Virginia Area within 60 miles of the City of Roanoke who so desires, to permit those public agencies or bodies to purchase such goods and/or services at contract prices, in accordance with the terms, conditions, and specifications of this procurement.** The Contractor shall deal directly with each public agency or body seeking to obtain any goods and/or services pursuant to this Contract or from this procurement and in accordance with Virginia Code Section 2.2-4304. The City of Roanoke shall not be responsible or liable for any costs, expenses, or any other matters of any type to either the Contractor or the public agency or body seeking to obtain any goods and/or services pursuant to this cooperative procurement provision.

SECTION 17. INFORMATION ON CONTRACT/PURCHASE ORDER TO BE AWARDED.

The Sample Contract marked as Attachment B to IFB No. 08-08-11 contains terms and conditions that the City plans to include in any contract/purchase order that may be awarded, but such terms and conditions may be added to, deleted, or modified as may be agreed to between the City and the Successful Bidder. However, if a Bidder has any objections to any of the terms or conditions set forth in the Sample or any changes or additions thereto that the Bidder wants to discuss before submitting a bid, the Bidder should set forth such objections, changes, or additions in written correspondence to the Purchasing Division at least five (5) days before the bid opening date for this IFB. Otherwise, submission of a bid by a Bidder will obligate such Bidder, if it is the Successful Bidder, to enter into a contract/purchase order containing the same or substantially similar terms and conditions as contained in such Attachment, and to comply with such terms and conditions. Also, such terms and conditions, together with the requirements of this IFB, shall be deemed to be a part of any resultant Contract/Purchase Order that may be issued by the City to the Successful Bidder.

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**ATTACHMENT A
To
IFB #08-08-11**

BID FORM

Bid pricing shall include all shipping, installation and training costs. Additional pricing will not be accepted.

**ROANOKE CIVIC CENTER
RPAT LOUDSPEAKER SYSTEM UPGRADE**

PART A - Main Loudspeakers, Processors and Amplifiers:

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UOM</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
1.	JBL PD5322-95 high-output 3-way full-range loudspeaker	1	EA	\$ _____	\$ _____
2.	JBL PD5200-64 high-output 2-way mid/high loudspeakers	4	EA	\$ _____	\$ _____
3.	JBL PD5122 high-output low-frequency loudspeakers	3	EA	\$ _____	\$ _____
4.	Yamaha IF2205 portable compact stage fill loudspeakers	6	EA	\$ _____	\$ _____
5.	dbx DriveRack 4820 4x8 digital loudspeaker processor	1	EA	\$ _____	\$ _____
6.	dbx DriveRack 220i 2x2 digital loudspeaker processor	1	EA	\$ _____	\$ _____
7.	dbx ZC-9 remote preset control for dbx 4820 processor	1	EA	\$ _____	\$ _____
8.	dbx ZC-3 remote preset control for dbx 220i processor	1	EA	\$ _____	\$ _____

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UOM</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
9.	QSC PL380 dual-channel 2600-Watt/ch power amplifiers	2	EA	\$ _____	\$ _____
10.	QSC PL340 dual-channel 1200-Watt/ch power amplifier	1	EA	\$ _____	\$ _____
11.	QSC PL325 dual-channel 825-Watt/ch power amplifiers	2	EA	\$ _____	\$ _____
12.	QSC PL218 dual-channel 525-Watt/ch power amplifier	1	EA	\$ _____	\$ _____
13.	Atlas WA100-61B-962 steel amplifier rack	1	EA	\$ _____	\$ _____
14.	LynTec MSLC 129-12 modular power sequencing load center	1	EA	\$ _____	\$ _____
15.	LynTec MB-30 motorized 30-Amp breakers	2	EA	\$ _____	\$ _____
16.	LynTec MB-20 motorized 20-Amp breakers	7	EA	\$ _____	\$ _____
17.	LynTec UMB-15 unmotorized 15-Amp breaker	1	EA	\$ _____	\$ _____
18.	Custom portable 50' 12/2 stage fill loudspeaker cables	2	EA	\$ _____	\$ _____
19.	Custom portable 35' 12/2 stage fill loudspeaker cables	2	EA	\$ _____	\$ _____

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UOM</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
20.	Custom portable 15' 12/2 stage fill loudspeaker jumper cables	4	EA	\$ _____	\$ _____
21.	Custom 2-output stage fill monitor output plates	2	EA	\$ _____	\$ _____

PART B – Accessories for Main Loudspeakers, Processors and Amplifiers:

Bidders shall provide a LOT price to include all of the below items.

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UOM</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
22.	West Penn 227 12/2 loudspeaker cable; West Penn 291 22/2S shielded signal cable; West Penn 4245-BL CAT5e Ethernet and control cable; loudspeaker suspension and mounting hardware; conduit raceway and surface junction boxes; rack receptacles, boxes, and hardware; cables, connectors, and hardware.	1	LOT	\$ _____	\$ _____

**BID FORM CONTINUED ON NEXT PAGE
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PART C – OPTION 1 / SUBWOOFER LOUDSPEAKER SYSTEM

The City of Roanoke, at its sole discretion reserves the right to add the items shown in Option 1 to the Scope of Work. There is no guarantee, expressed or written, that the City will purchase the items in Option 1 if a contract is awarded.

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UOM</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
23.	JBL ASB6128V high-output extended response subwoofer loudspeaker	1	EA	\$ _____	\$ _____
24.	QSC PL380 dual-channel 2600-Watt/ch power amplifier	1	EA	\$ _____	\$ _____
25.	Accessories for Item Nos. 23 and 24: West Penn 227 12/2 loudspeaker cable; loudspeaker suspension and mounting hardware; cables, connectors, and hardware.	1	LOT	\$ _____	\$ _____

**BID FORM CONTINUED ON NEXT PAGE
REMAINDER OF PAGE INTENTIONALLY LEFT BLANK**

Bids containing any conditions, omissions, unexplained erasures, alterations or items not called for in the bid, or irregularities of any kind, may be rejected by the City as being nonresponsive. No changes are to be made to the Bid Form. Any changes to a Bid Amount must be initialed by the person signing the Bid Form.

The attention of each Bidder is directed to VA Code sections 54.1-1100, et seq. which requires certain licenses for contractors, tradesmen, and others. Each Bidder is required to determine which license, if any, it is required to have under such sections. Complete the following:

Bidder ___ does have ___ does not have a Virginia Contractor's License. (Check appropriate block)

If Bidder has a Virginia Contractor's License, circle the class Bidder has and list the number. Licensed "Class A", "Class B", or "Class C" Virginia Contractor Number _____

If Bidder has another type of Virginia License, please list the type and number:

Type of license _____ and number: _____.

Bidder is a ___ resident or ___ nonresident of Virginia. (Check appropriate blank. See VA Code Sections 54.1-1100, et seq.

The undersigned hereby agrees, if this Bid is accepted by the City, to provide the services and/or items in accordance with this Invitation for Bid and to execute a contract for such services and/or items.

Legal Name of Bidder

Date

Authorized Signature

Print or Type Name and Title

ATTACHMENT B

To

IFB #08-08-11

SAMPLE CONTRACT

CITY OF ROANOKE, VIRGINIA
CONTRACT

This Contract is dated _____, 20____, between the City of Roanoke, Virginia, a Virginia municipal corporation, hereinafter referred to as the "City" or "Owner", and

(legal name and address of contractor)

hereinafter referred to as the "Contractor, " **{NOTE: Use one of the following if applicable.}** {a _____ **corporation.**} {an Individual.} {a _____ **Partnership.**}
{a _____ **Limited Liability Company.**}

WITNESSETH:

WHEREAS, Contractor has been awarded this Contract by the City for furnishing all equipment, materials, goods, labor, and services necessary for the Roanoke Performing Arts Theater (RPAT) Sound System Repair and Upgrade, and associated work in accordance with this Contract and the documents referred to herein, all such items or services also being referred to hereinafter as the Work or Project.

NOW, THEREFORE, THE CITY AND THE CONTRACTOR AGREE AS FOLLOWS:

SECTION 1. WORK TO BE PERFORMED AND DOCUMENTS.

For and in consideration of the money hereinafter specified to be paid by the City to the Contractor for the Work provided for in this Contract to be performed by the Contractor, the Contractor hereby covenants and agrees with the City to fully perform the services, provide any materials called for, construct, and complete the Work called for by this Contract in a good and workmanlike manner in accordance with this Contract and the documents referred to herein in order to fully and properly complete this Contract within the time stipulated, time being made of the essence for this Contract. It is also agreed by the parties hereto that the documents to this Contract consist of this Contract and the following documents listed below (Contract Documents), all of which are and constitute a part of this Contract as if attached hereto or set out in full herein, viz:

1. Insurance Requirements (Attachment A)
2. Description of Goods or Services-Scope of Work (Attachment B)
3. Special Terms and Conditions dated_____ (Attachment C)

The parties agree that if there are any differences between the provisions of the above referenced documents, the provisions of the City documents and this Contract will control over any Contractor supplied documents or information.

SECTION 2. TERM OF CONTRACT.

The term of this Contract will be for sixty (60) days from _____, through _____, at which time it will terminate, unless sooner terminated pursuant to the terms of the Contract or by law or unless extended as set forth herein at the option of the City. At the City's option, the Contract may be extended for up to three (3) additional sixty (60) day periods or any combination thereof. The City may exercise its option by giving written notice of such to the Contractor at least fifteen (15) days before the expiration of the initial sixty (60) day term or any subsequent extension term.

SECTION 3. TIME OF PERFORMANCE.

The Contractor shall commence the Work to be performed under this Contract on such date as is established and fixed for such commencement by written notice (which may be initially given verbally in an emergency situation) to proceed given by the City representative to the Contractor, and the Contractor covenants and agrees to fully construct, perform, and complete the Work and/or provide the goods called for by this Contract within sixty (60) consecutive calendar days after the date of commencement fixed and established by such notice. The Contractor further agrees that the Work shall be started promptly upon receipt of such notice and shall be prosecuted regularly, diligently, and uninterruptedly at a rate of progress that will ensure full completion thereof in the shortest length of time consistent with the Contract Documents and that Contractor will cooperate and coordinate with the other City contractors or employees doing other work or using the area where Contractor is working.

SECTION 4. CONTRACT AMOUNT AND PAYMENT.

The City agrees to pay Contractor for the Contractor's complete and satisfactory performance of the Work, in the manner and at the time set out in this Contract, a total lump sum amount of \$_____. Contract amount may be increased or decreased by additions and/or reductions in the Work as may be authorized and approved by the City, and the Contract amount may be decreased by the City's assessment of any damages against the Contractor, as may be provided for in this Contract or by law. The City retains the right to setoff as to any amounts of money Contractor may owe the City. A written progress report may be requested by the City to accompany payment request and, if so, such progress report shall detail the work completed. Also, sufficient documentation of all costs, expenses, materials supplied, and/or hours worked may be requested by the City and, if so, may be required prior to the processing of any such request for payment. Payment will only be made for work actually performed, services actually supplied, and/or materials or goods furnished to the City, all of which need to be approved and accepted by the City prior to such payment, unless otherwise provided for in the Contract documents. Once a payment request has been received by the City, the City will process such payment request. If there are any objections or problems with the payment request, the City will notify the Contractor of such matters. If the payment request is approved and accepted by the City, payment will be made by the City to the Contractor not more than 30 days after such request has been approved.

SECTION 5. PAYMENTS TO OTHERS BY CONTRACTOR.

The Contractor agrees that Contractor will comply with the requirements of Section 2.2-4354 of the Virginia Code regarding Contractor's payment to other entities and the Contractor will take one of the two actions permitted therein within 7 days after receipt of amounts paid to Contractor by the City. Contractor further agrees that the Contractor shall indemnify and hold the City harmless for any lawful claims resulting from the failure of the Contractor to make prompt payments to all persons supplying the Contractor equipment, labor, tools, or material in connection with the work provided for in the Contract. In the event of such claims, the City may, in the City's sole discretion, after providing written notice to the Contractor, withhold from any payment request or final payment the unpaid sum of money deemed sufficient to pay all appropriate claims and associated costs in connection with the Contract and make such payment, if the City determines it to be appropriate to do so.

SECTION 6. HOLD HARMLESS AND INDEMNITY.

Contractor shall indemnify and hold harmless the City and its officers, agents, and employees against any and all liability, losses, damages, claims, causes of action, suits of any nature, costs, and expenses, including reasonable attorney's fees, resulting from or arising out of Contractor's or its employees, agents, or subcontractors actions, activities, or omissions, negligent or otherwise, on or near City's property or arising in any way out of or resulting from any of the work or items to be provided under this Contract, and this includes, without limitation, any fines or penalties, violations of federal, state, or local laws or regulations, personal injury, wrongful death, or property damage claims or suits. Contractor agrees to and shall protect, indemnify, and hold harmless all the parties referred to above from any and all demands for fees, claims, suits, actions, causes of action, settlement or judgments based on the alleged or actual infringement or violation of any copyright, trademark, patent, invention, article, arrangement, or other apparatus that may be used in the performance of this Contract.

SECTION 7. COMPLIANCE WITH LAWS AND REGULATIONS.

Contractor agrees to and will comply with all applicable federal, state, and local laws, ordinances, and regulations, including all applicable licensing requirements.

SECTION 8. INDEPENDENT CONTRACTOR.

The relationship between Contractor and the City is a contractual relationship. It is not intended in any way to create a legal agency or employment relationship. Contractor shall, at all times, maintain its status as an independent contractor and both parties acknowledge that neither is an agent, partner or employee of the other for any purpose. Contractor shall be responsible for causing all required insurance, workers' compensation (regardless of number of employees) and unemployment insurance to be provided for all of its employees and subcontractors. Contractor will be responsible for all actions of any of its subcontractors, and that they are properly licensed.

SECTION 9. REPORTS, RECORDS, AND AUDIT.

Contractor agrees to maintain all books, records and other documents relating to this Contract for a period of five (5) years after the end of each fiscal year included in this Contract. The City, its authorized employees, agents, representatives, and/or state auditors shall have full access to and the right to examine, copy, and/or audit any of such materials during such period, upon prior written notice to Contractor.

SECTION 10. INSURANCE REQUIREMENTS.

Contractor and any of its subcontractors involved in this Contract shall maintain the insurance coverages set forth in Attachment A to this Contract and provide the proof of such insurance coverage as called for in Attachment A, including workers' compensation coverage regardless of the number of Contractor's employees. Such insurance coverage shall be obtained at the Contractor's sole expense and maintained during the life of the Contract and shall be effective prior to the beginning of any work or other performance by the Contractor under this Contract. Additional insured endorsements, if required, must be received by the City within 30 days of the execution of this Contract or as otherwise required by the City's Risk Manager.

SECTION 11. DEFAULT.

If Contractor refuses or fails to perform any of the terms of this Contract, including poor services, work or materials, the City may, by written notice to Contractor, terminate this Contract in whole or in part. In addition to any right to terminate, the City may enforce any remedy available at law or in equity in connection with such default, and Contractor shall be liable for any damages to the City resulting from Contractor's default. The City further reserves the right to immediately obtain such work or services from other entities in the event of Contractor's default.

SECTION 12. NONWAIVER.

Contractor agrees that the City's waiver or failure to enforce or require performance of any term or condition of this Contract or the City's waiver of any particular breach of this Contract by the Contractor extends to that instance only. Such waiver or failure is not and shall not be a waiver of any of the terms or conditions of this Contract or a waiver of any other breaches of the Contract by the Contractor and does not bar the City from requiring the Contractor to comply with all the terms and conditions of the Contract and does not bar the City from asserting any and all rights and/or remedies it has or might have against the Contractor under this Contract or by law.

SECTION 13. FORUM SELECTION AND CHOICE OF LAW.

By virtue of entering into this Contract, Contractor submits itself to a court of competent jurisdiction in the City of Roanoke, Virginia, and further agrees that this Contract is controlled by the laws of the Commonwealth of Virginia and that all claims, disputes, and other matters shall only be decided by such court according to the laws of the Commonwealth of Virginia.

SECTION 14. SEVERABILITY.

If any provision of this Contract, or the application of any provision hereof to a particular entity or circumstance, shall be held to be invalid or unenforceable by a court of competent jurisdiction, the remaining provisions of this Contract shall not be affected and all other terms and conditions of this Contract shall be valid and enforceable to the fullest extent permitted by law.

SECTION 15. NONDISCRIMINATION .

- A. During the performance of this Contract, Contractor agrees as follows:
 - i. Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, 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. Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

- ii. Contractor in all solicitations or advertisements for employees placed by or on behalf of Contractor will state that Contractor is an equal opportunity employer.
- iii. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

B. Contractor will include the provisions of the foregoing Section A (i, ii, and iii) in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

SECTION 16. DRUG-FREE WORKPLACE.

- A. During the performance of this Contract, Contractor agrees to (i) provide a drug-free workplace for 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 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 on behalf of Contractor that Contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.
- B. For the purposes 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, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

SECTION 17. FAITH BASED ORGANIZATIONS.

Pursuant to Virginia Code Section 2.2-4343.1, be advised that the City does not discriminate against faith-based organizations.

SECTION 18. ASSIGNMENT.

Contractor may not assign or transfer this Contract in whole or in part except with the prior written consent of the City, which consent shall not be unreasonably withheld. If consent to assign is given, no such assignment shall in any way release or relieve the Contractor from any of the covenants or undertakings contained in this Contract and the Contractor shall remain liable for the Contract during the entire term thereof.

SECTION 19. CONTRACTUAL DISPUTES.

Contractual claims, whether for money or for other relief, shall be submitted, in writing, no later than sixty (60) days after the earlier of the final payment or termination of the Contract or notice from the City to the Contractor that the City disputes the amount of Contractor's request for final payment. However, written notice of the Contractor's intention to file such claim must be given at the time of the occurrence or beginning of the work upon which the claim is based. Such notice is a condition

precedent to the assertion of any such claim by the Contractor. A written decision upon any such claims will be made by the City Manager or the City Manager's designee (hereafter City Manager) within thirty (30) days after submittal of the claim and any practically available additional supporting evidence required by the City Manager. The Contractor may not institute legal action prior to receipt of the City's decision on the claim unless the City Manager fails to render such decision within 120 days from submittal of Contractor's claim. The decision of the City Manager shall be final and conclusive unless the Contractor within six (6) months of the date of the final decision on a claim or from expiration of the 120 day time limit, whichever occurs first, initiates legal action as provided in Section 2.2 - 4364, of the Va. Code. Failure of the City to render a decision within said 120 days shall not result in the Contractor being awarded the relief claimed nor shall it result in any other relief or penalty. The sole result of the City's failure to render a decision within said 120 days shall be Contractor's right to immediately institute legal action. No administrative appeals procedure pursuant to Section 2.2 - 4365 of the Va. Code has been established for contractual claims under this Contract.

SECTION 20. SUCCESSORS AND ASSIGNS.

The terms, conditions, provisions, and undertakings of this Contract shall be binding upon and inure to the benefit of each of the parties hereto and their respective successors and assigns.

SECTION 21. HEADINGS.

The captions and headings in this Contract are for convenience and reference purposes only and shall not affect in any way the meaning and interpretation of this Contract.

SECTION 22. COUNTERPART COPIES.

This Contract may be executed in any number of counterpart copies, each of which shall be deemed an original, but all of which together shall constitute a single instrument.

SECTION 23. AUTHORITY TO SIGN.

The persons who have executed this Contract represent and warrant that they are duly authorized to execute this Contract on behalf of the party for whom they are signing.

SECTION 24. NOTICES.

All notices must be given in writing and shall be validly given if sent by certified mail, return receipt requested, or by a nationally recognized overnight courier, with a receipt, addressed as follows (or any other address that the party to be notified may have designated to the sender by like notice):

To City: City of Roanoke
Civic Facilities
Attn: Mina Boyd, Director of Civic Facilities
PO Box 13005
Roanoke, Virginia 24030-3005

Facsimile: (540) 853-2748

Copy to: City of Roanoke
Purchasing Division
Attn: Purchasing Manager

Noel C. Taylor Municipal Building Room 202
215 Church Avenue SW
Roanoke, Virginia 24011

Facsimile: (540) 853.1513

If to Contractor: _____

Facsimile: _____

SECTION 25. PROTECTING PERSONS AND PROPERTY.

The Contractor expressly undertakes, both directly and through its subcontractors, to take every reasonable precaution at all times for the protection of all persons and property at the location of the Work or in the vicinity of the Work or that may be affected by the Contractor's operation in connection with the Work. The Contractor will maintain adequate protection of all Contractor's Work to prevent damage to it and shall protect the City's property from any injury or loss arising in connection with this Contract and to protect adjacent property to prevent any damage to it or loss of use and enjoyment by its owners. Contractor agrees to be responsible for the entire Work and will be liable for all damages to the Work, including, but not limited to, damages to any property of the City or to any property in the vicinity or adjacent to the Work. All damage with respect to the Work caused by vandalism, weather, or any other cause, other than resulting from the sole negligence of the City, shall be the responsibility of the Contractor. Furthermore, any damage to concrete curbs, gutters, sidewalks, or any existing facility, whether owned by the City or others that may occur during the Work shall be repaired or replaced by the Contractor, at Contractor's sole expense, as directed by and to the satisfaction of the City.

SECTION 26. WARRANTY OF MATERIAL AND WORKMANSHIP.

The Contractor warrants that, unless otherwise specified, all material and equipment used in the work under this Contract shall be new, in first class condition, and in accordance with the Contract documents. The Contractor further warrants that all workmanship shall be of the highest quality in accordance with the Contract and shall be performed by persons qualified in their respective trades. This warranty of material and workmanship is separate and independent from and in addition to any of the Contractor's other guarantees or obligations under this Contract, or that may arise by law. Contractor agrees that Contractor shall repair or replace, at Contractor's sole expense, and to the satisfaction of the City, any work, material, equipment, or part of the Work that is found by the City to be defective or not in accordance with the terms of this Contract.

SECTION 27. SUSPENSION OR TERMINATION OF CONTRACT BY CITY.

- A. The City, at any time, may order Contractor to immediately stop work on this Contract, and/or by seven days written notice may terminate this Contract, with or without cause, in whole or in part, at any time. Upon receipt of such notice, the Contractor shall immediately discontinue all services affected (unless the notice directs otherwise), and deliver to the City all data (including electronic data), drawings, specifications, reports, project deliverables, estimates, summaries, and such other information and materials as may have been accumulated by the Contractor in performing this Contract whether completed or in process (unless otherwise directed by the notice).

1. If the termination or stop work order is due to the failure of the Contractor to fulfill any of its Contract obligations, the City may take over the Work and prosecute the same to completion by contract or otherwise. In such case, the Contractor shall be liable to the City for any damages allowed by law, and upon demand of City shall promptly pay the same to City .
2. Should the Contract be terminated or work is stopped not due in any way to the fault of the Contractor, the Contractor shall only be entitled to compensation for services actually performed and materials actually supplied prior to notice of termination or to stop work and which are approved by the City and any applicable federal or state approving agency. No profit, overhead, or any other costs of any type are allowed after the date of such notice of termination or stop work order.
3. The rights and remedies of the City provided in this Section are in addition to any other rights and remedies provided by law or under this Contract and City may pursue any and all such rights and remedies against Contractor as it deems appropriate.

SECTION 28. ETHICS IN PUBLIC CONTRACTING.

The provisions, requirements, and prohibitions as contained in Sections 2.2-4367 through 2.2-4377, of the Va. Code, pertaining to bidders, offerors, contractors, and subcontractors are applicable to this Contract.

SECTION 29. ENTIRE CONTRACT.

This Contract constitutes the complete understanding between the parties. This Contract may be modified only by written agreement properly executed by the parties.

Remainder of page intentionally left blank.

IN WITNESS WHEREOF, the parties hereto have signed this Contract by their authorized representatives.

WITNESS:

(Full Legal Name of Contractor)

By _____

Printed Name and Title

Printed Name and Title

(SEAL)

CITY OF ROANOKE, VIRGINIA

WITNESS:

Name/Title

By _____
(City Manager or authorized City representative)

Printed Name and Title

Printed Name and Title

Approved as to form:

Appropriation and Funds Required
for this Contract Certified:

City Attorney

Director of Finance

Approved as to Execution:

Account # _____

City Attorney

Date _____

ATTACHMENT A
CONTRACTOR'S AND SUBCONTRACTOR'S INSURANCE

Reference IFB #08-08-11

Neither the Contractor nor any subcontractor shall commence work under this Contract until the Contractor has obtained all the insurance policies required under this Section and such insurance has been approved by the City.

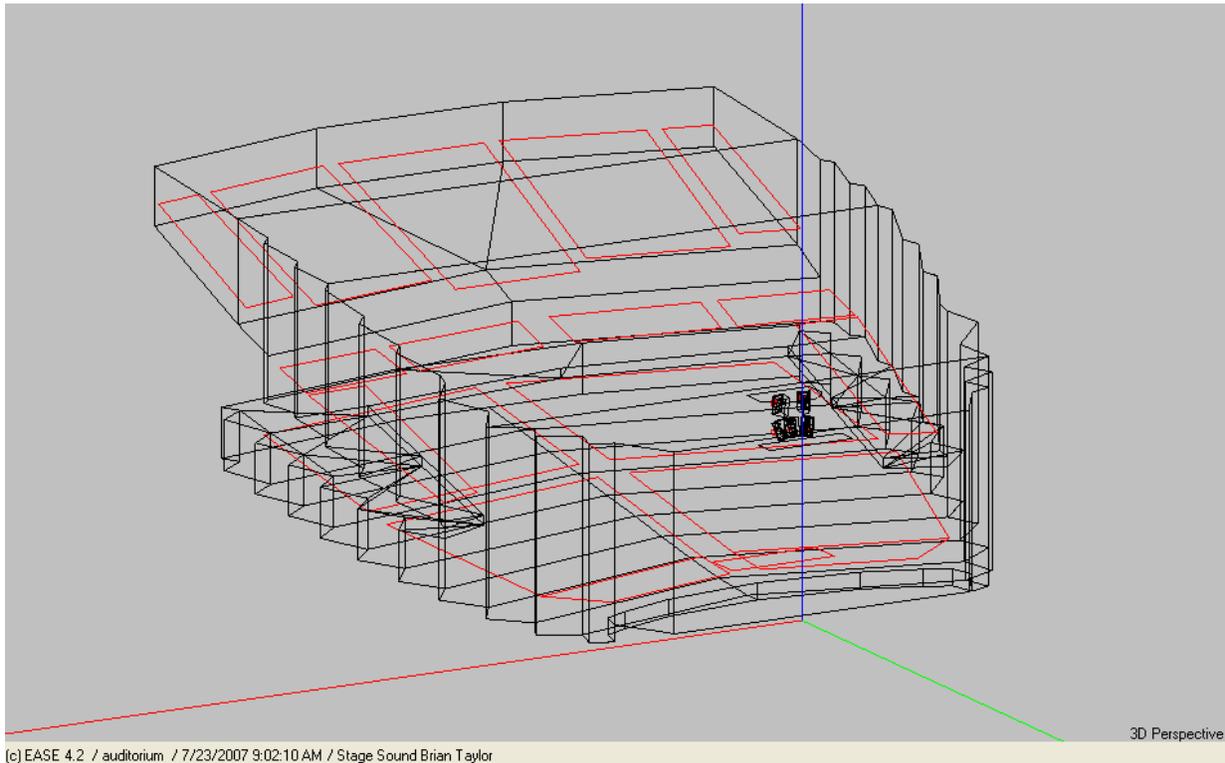
1. The following **minimum insurance requirements** apply:
 - a. Workers' Compensation and Employers' Liability:
The Contractor shall obtain and maintain the following limits:

Workers' Compensation: Statutory
Employers' Liability: \$100,000 bodily injury by accident each occurrence
 \$500,000 bodily injury by disease (policy limit)
 \$100,000 bodily injury by disease each employee
 - b. Commercial General Liability:
Coverage is to be written on an "occurrence" basis, \$5,000,000 minimum limit, and such coverage shall include:
 - Products/Completed Operations
 - Personal Injury and Advertising Injury
 - Bodily Injury
 - c. Automobile Liability:
Limits for vehicles owned, non-owned or hired shall not be less than:
 - \$1,000,000 Bodily Injury and Property Damage combined single limit
2. **Proof of Insurance Coverage:** The policies of insurance shall be purchased from a reputable insurer licensed to do business in Virginia and maintained for the life of the Contract by the Contractor. Other insurance requirements include the following:
 - a. The Contractor shall furnish the City with the required certificates of insurance showing the insurer, type of insurance, policy number, policy term, and limits.
 - b. The required certificates of insurance shall contain substantially the following statement: "The insurance covered by this certificate shall not be canceled or materially altered except after a thirty (30) day written notice has been received by the Risk Management Officer for the City of Roanoke."
 - c. The required certificates of insurance shall name the City of Roanoke, its officers, agents, volunteers, and employees as additional insureds except with regard to the workers' compensation and employers' liability coverages which shall contain a waiver of subrogation in favor of the City. Additional insured and waiver endorsements shall be received by Roanoke Risk Management from the insurer within 30 days of beginning of this contract.

ATTACHMENT B
Description of Goods or Services-Scope of Work
Reference IFB #08-08-11

Overhead Loudspeaker Array

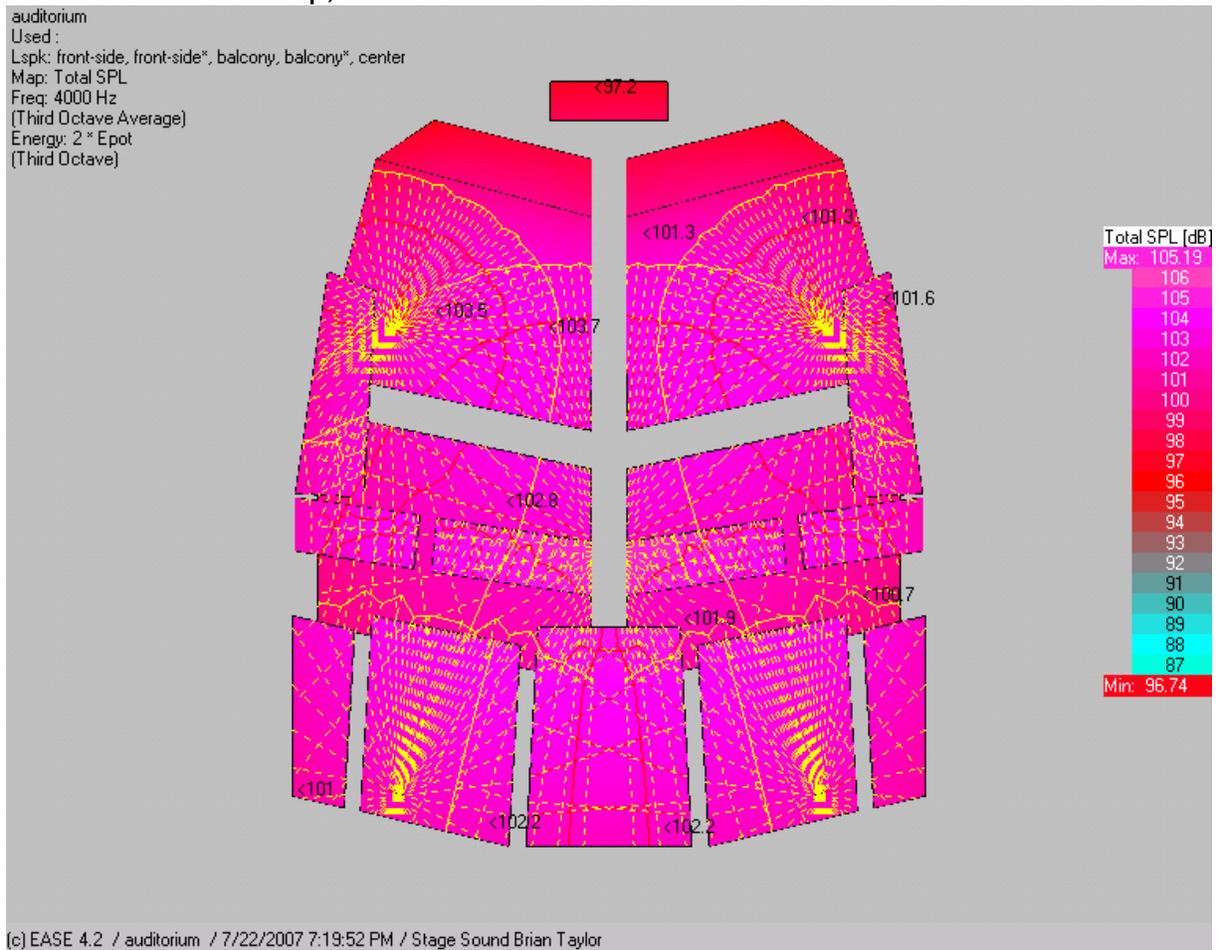
An extensive CAD model of the auditorium has been created to determine the best possible loudspeaker system application:



The results of this CAD analysis, combined with an understanding of what types of loudspeakers work best in the RPAT and after completion of critical listening studies of many different loudspeaker brands and models over the years, led to selection of the JBL PD5000 series of loudspeakers in this design. This new loudspeaker array shall consist of eight individual cabinets specifically arrayed to provide uniform broadband coverage to the auditorium seats with minimal sound overlap on the stage itself (for increased gain before feedback). The attached AutoCAD loudspeaker cluster drawing shows the relationship and orientation of each of the loudspeaker cabinets in this array. The required loudspeakers and position of each are also shown in this table:

Loudspeaker	Model	Vert. Tilt	Horiz. Splay	Rotation	Notes
Main Center	JBL PD5322-95	-14°	0°	0°	
Front and Loge Fill	JBL PD5200-64 (2)	-23°	37°	0°	
Balcony Fill	JBL PD5200-64 (2)	+5°	15°	180°	HF horn down
Low Frequency	JBL PD5122 (3)	-14°	0°	0°	

The frequency response of the entire array shall extend down to 49Hz (the -3dB point). Low frequency pattern control of the cluster array shall extend down to approximately 140 Hz. With the included portable fill loudspeakers, this system is capable of providing at least 100 decibels of sound to every seat in the theatre. The following is a calculated sound coverage map at 4000 Hz of the RPAT seating (with the main cluster only - the stage fill loudspeakers are not included in this map):



As shown by the above sound mapping, the sound volume will be extremely uniform at every seat, and the volume of the sound drops off at the front of the stage and on the stage itself to aid in the available sound volume gain before system feedback.

Portable Stage Fill Loudspeakers

Six portable front fill loudspeakers will provide sound coverage to the first several rows of seating to fill in the areas not covered by the overhead cluster. Loudspeaker wiring shall be extended from the amplifier rack next to the cluster to output plates located in each of the wing areas next to the stage. Portable cabling shall be used to connect the monitors to these output receptacles. The system processing shall allow these fill speakers to be

programmed and optimized at different positions on the stage and whether the orchestra pit was seated or not.

System Processing and Amplification

New digital system processors shall be provided for all of the cluster loudspeakers and the portable stage fill loudspeakers. The attached system diagram shows the signal flow and interconnection of the new system. The dbx DriveRack 4820 4x8 digital loudspeaker processor shall provide all necessary frequency dividing, equalization, system protection, and feedback reduction for the main array. This processor shall be programmed using the Smaart measurement software to provide optimum sound response. The dbx DriveRack 220i 2x2 digital loudspeaker processor shall include all of the above programming and provide separate outputs for the center group of stage fill loudspeakers and the outside (left and right) group of loudspeakers in case any level and frequency shading are needed to provide uniform response. Two remote control panels shall be installed in the control booth so that the sound operator can select the appropriate system preset suited for the particular performance or event. Six new high-output power amplifiers shall be provided for all of the cluster loudspeakers and the six stage fill loudspeakers. These amplifiers and processors shall be installed in a new steel equipment rack to be located on the upper catwalk next to the loudspeaker array. In addition, an Ethernet line shall be installed between the control booth and the new rack for future remote control and monitoring of the processors.

Electrical Power

The Civic Center will need to provide a new electrical power service to the amplifier rack located next to the loudspeaker cluster. The sound contractor shall provide a LynTec sequential load center and all listed motorized breakers. An electrical contractor will mount the LynTec panel on the wall behind the new amplifier rack and complete all line voltage terminations. The sound contractor shall provide all necessary receptacles and outlet boxes inside the amplifier rack and provide flexible MC cable whips out to the LynTec load center for the electrical contractor to install. The sound contractor shall provide all control cabling to the remote on-off switch to be located in the existing sound booth. In addition, the sound contractor shall complete all control programming of the LynTec panel. This will provide a complete sequential power control system and provide simple one touch on and off control of the entire sound system.

Wiring and Installation

Most of the existing wiring will be retained in this new design. Any new loudspeaker, signal, and control wiring required for a complete system will be provided by the sound

contractor and included in this installation. All of the existing loudspeakers and any unused support hardware shall be removed by the sound contractor and placed on the stage for disposal by the Civic Center. Some of the existing down lighting next to the existing loudspeakers may need to be re-located to make room for the new equipment and/or to remove an obstruction that will compromise the sound coverage of this new system. Other than the provision above for a new electrical service, the sound contractor shall provide all necessary labor and materials to remove the old equipment that will not be part of the new system, to modify or remove parts of the existing array support system, replace any wire mesh panels in the ceiling grid after installation, and re-locate (with input from the Civic Center) any lighting fixtures that may be in the way of the new loudspeakers.

Calibration and Training

The sound contractor shall provide all necessary system calibration to provide optimum sound quality of this system. The sound contractor shall also provide a technician for the first event that uses this system, and all necessary training for Civic Center staff and/or IATSE technicians that are the primary users of this system shall also be included.

ATTACHMENT C TO SAMPLE CONTRACT

Reference IFB #08-08-11

Date: _____

SPECIAL TERMS AND CONDITIONS

To Contract Dated _____

Between City of Roanoke and _____

The following Special Terms and Conditions are part of the above Contract:

SECTION 1. JOBSITE APPEARANCE.

The Contractor expressly undertakes, either directly or through its Subcontractor(s), to clean up frequently all refuse, rubbish, scrap material, and debris caused by its operations, to the end that at all times the jobsite shall present a neat, orderly, and workmanlike appearance. No such refuse, rubbish, scrap material, and debris shall be left within the completed Work nor buried on site, but shall be properly protected and removed from the site and properly disposed of in a licensed landfill or otherwise as required by law.

SECTION 2. FINAL CLEANING.

The Contractor expressly undertakes, either directly or through its Subcontractor(s), before final payment, to remove all surplus material, false work, temporary structures, including foundations thereof, and debris of every nature resulting from its operations and to put the site in a neat, orderly condition, to thoroughly clean and leave reasonably dust free all finished surfaces including all equipment, piping, etc., on the interior of all buildings included in the Contract; and to thoroughly clean all glass installed under the Contract including the removal of all paint and mortar splatter and other defacements. If a Contractor fails to clean up at the completion of the Work, the City may do so and charge for the costs thereof to the Contractor in accordance with these conditions.

SECTION 3. PROTECTION ON SITE.

The Contractor expressly undertakes, both directly and through its Subcontractor(s), to take every reasonable precaution at all times for the protection of all persons and property which may come on the jobsite or be affected by the Contractor's operation in connection with the Work.

SECTION 4. SAFETY AND HEALTH PRECAUTIONS.

The Contractor shall be solely responsible for initiating, maintaining, and supervising all safety and health precautions and programs in connection with the Work, including but not limited to provision of appropriate sanitation facilities, if applicable.

SECTION 5. PROTECTING THE WORK AND ADJACENT PROPERTY.

The Contractor shall continuously maintain adequate protection of all the Work from damage and shall protect the City's property and the property where the Work is being performed from injury or loss arising in connection with this Contract. The Contractor shall adequately protect adjacent property to prevent any damage to it or its loss of use and enjoyment. The Contractor shall provide and maintain all passageways, guard fences, lights, and other facilities for protection required by

public authority, local conditions, any of the Contract Documents, or erected for the fulfillment of its obligations for the protection of persons and property.

SECTION 6. DEFECTIVE WORK.

The Contractor agrees it shall repair or replace, at Contractor's sole expense, and to the satisfaction of the City's Lead Safe Roanoke Administrator, any work, material, equipment, or part that is found, by the City's Lead Safe Roanoke Administrator, to be defective.

SECTION 7. CORRECTION OF DEFECTS.

If the Contractor, after notice, fails to proceed promptly, but in no event longer than thirty (30) calendar days after such notice, unless otherwise agreed to by the City, through its Lead Safe Roanoke Administrator, to comply with the terms of the guarantee and/or correct the Work, the City may have the defects corrected by its own forces or another contractor and the Contractor shall be liable for all costs and expenses incurred in doing so.

SECTION 8. DAMAGE TO THE WORK

The Contractor shall have charge of and be solely responsible for the entire Work and be liable for all damages to the Work including, but not limited to any property in the vicinity of the Work, until its completion and acceptance by the City.

SECTION 9. DAMAGE TO OTHER WORK OR UTILITIES

The Contractor shall take into account all other work which shall be done by other parties on the jobsite, either now known or which may become necessary during the progress of the Work, and shall be responsible for any damage done to the other work. Should any utilities require adjustment during the Work, it shall be the Contractor's responsibility to have such utilities relocated as a part of the Work and to contact and cooperate with the respective Utility Company in performance of such operations. The respective Utility Company shall be given a minimum of forty-eight (48) hours notice prior to the adjustment, and the Contractor shall comply with the provisions of the Virginia Underground Utilities Damage Prevention Act, Section 56-265.14 et seq., of the VA. Code. Damages that may occur to the utilities during the Work shall be the sole responsibility of the Contractor.

SECTION 10. WEATHER DAMAGE OR DELAY.

Damage to the Work or any delays caused by the weather shall be the responsibility of the Contractor.

SECTION 11. DAMAGE TO EXISTING STRUCTURES.

Damage caused by Contractor or its subcontractors to concrete curbs, gutters, sidewalks, or any existing facility, structure, or building that may occur during the Work shall be repaired or replaced by the Contractor, at its sole expense, as directed by and to the satisfaction of the City.

SECTION 12. RELEASE BY CONTRACTOR.

The acceptance by the Contractor of the final payment for any requested work shall be and does operate as a release by the Contractor of all claims by the Contractor against City and of all other

liability of the City to the Contractor whatever, including liability for all things done or furnished in connection with the Work or the Contract.

SECTION 13. ONE YEAR WARRANTY.

The Contractor shall and does warrant and guarantee all of its Work against defects or deficiencies in the Work and in all material, equipment, and workmanship for a period of one (1) year from the date of Final Acceptance of such Work.

END