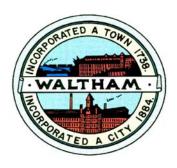
The City of Waltham



Invites Interested Parties To propose the best offer and or bid For the service or product herewith described:

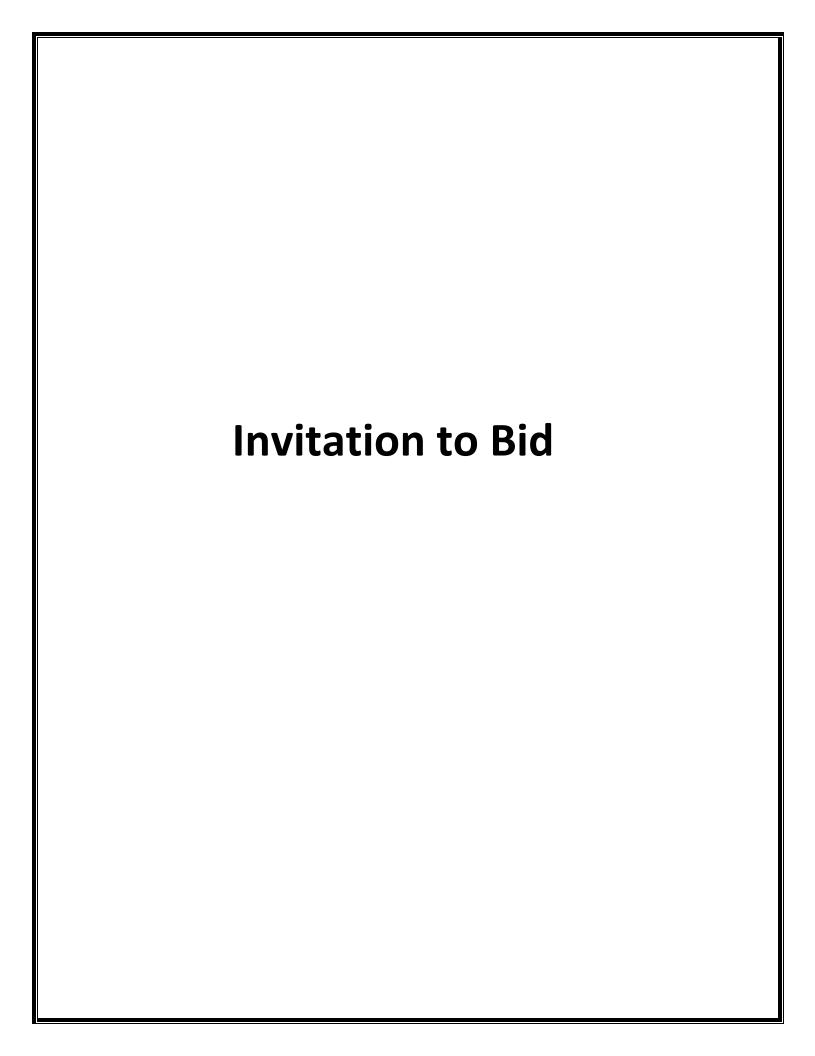
WCAC TV Studios Equipment and Installation

The bid opening will be held: Thursday February 27, 2014 at 1:00 PM

Pre-Bid Meeting and Site Inspection: Thursday February 20, 2014 at 10:00 AM

(Please meet at Waltham City Hall 610 Main Street)

Phone: 781-314-3244, Fax: 781-314-3245



The City of Waltham

Purchasing Department

REQUEST FOR BID (RFB)

Under the rules of M.G.L. Chapter 30B, the Chief Procurement Officer of the City of Waltham Purchasing Department hereby requests sealed bids for:

WCAC TV Studios Equipment and Installation

Price Proposals will be received at the office of the Purchasing Agent, City Hall, 610 Main Street, Waltham MA 02452, until,

The bid opening will be held: Thursday February 27, 2014 at 1:00 PM

Pre-Bid Meeting and Site Inspection: Thursday February 20, 2014 at 10:00 AM

(Please meet at Waltham City Hall 610 Main Street)

At which time and place the bids will be publicly opened and read.

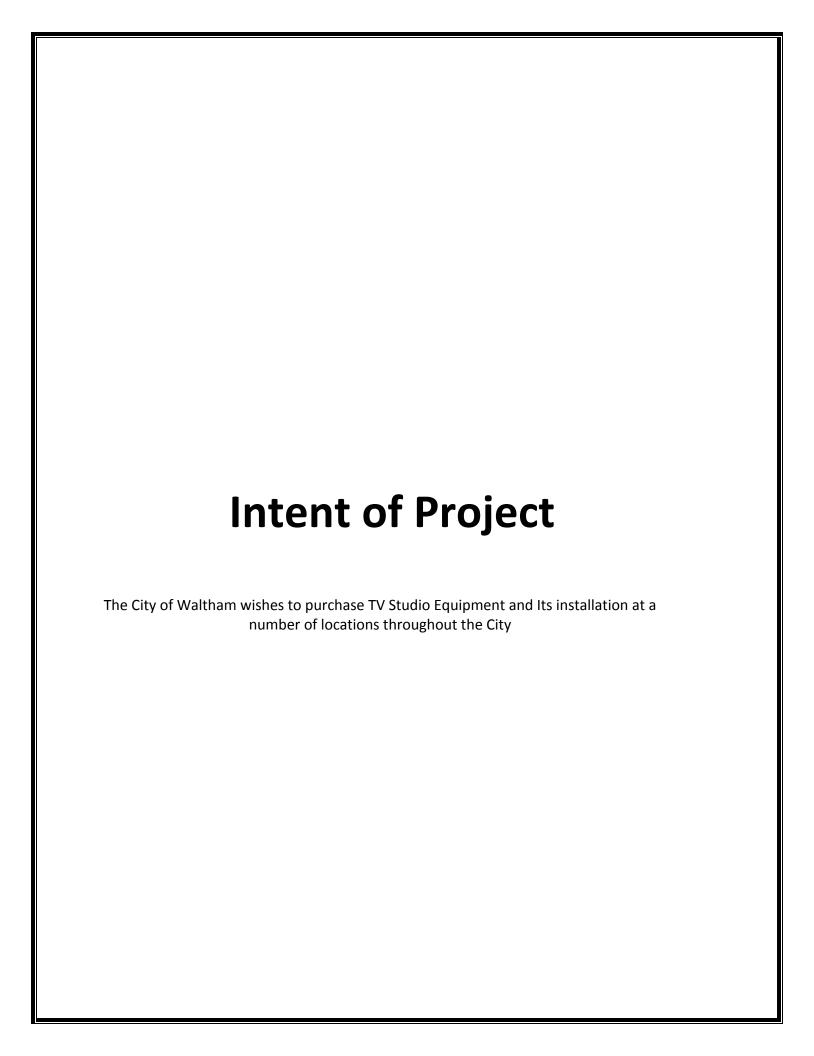
Specifications and information available on line by visiting the Waltham Purchasing Department web site at www.city.waltham.ma.us/open-bids

BIDS MUST BE SIGNED AND ENCLOSED IN A SEALED ENVELOPE AND MARKED: BID FOR: WCAC TV Studios

A 5% Bid Bond or Certified Check must accompany each bid submitted and made payable to, and become the property of the City of Waltham, if the successful bidder refuses or neglects to comply with the terms of the Contract.

If the Bidder is a corporation, state your correct corporate name and State of incorporation. If Bidder is a partnership, state names and addresses of partners. If Bidder is a trust or other legal entity, state correct names and addresses of trustees or names and address of those legally authorized to bid and enter into contracts.

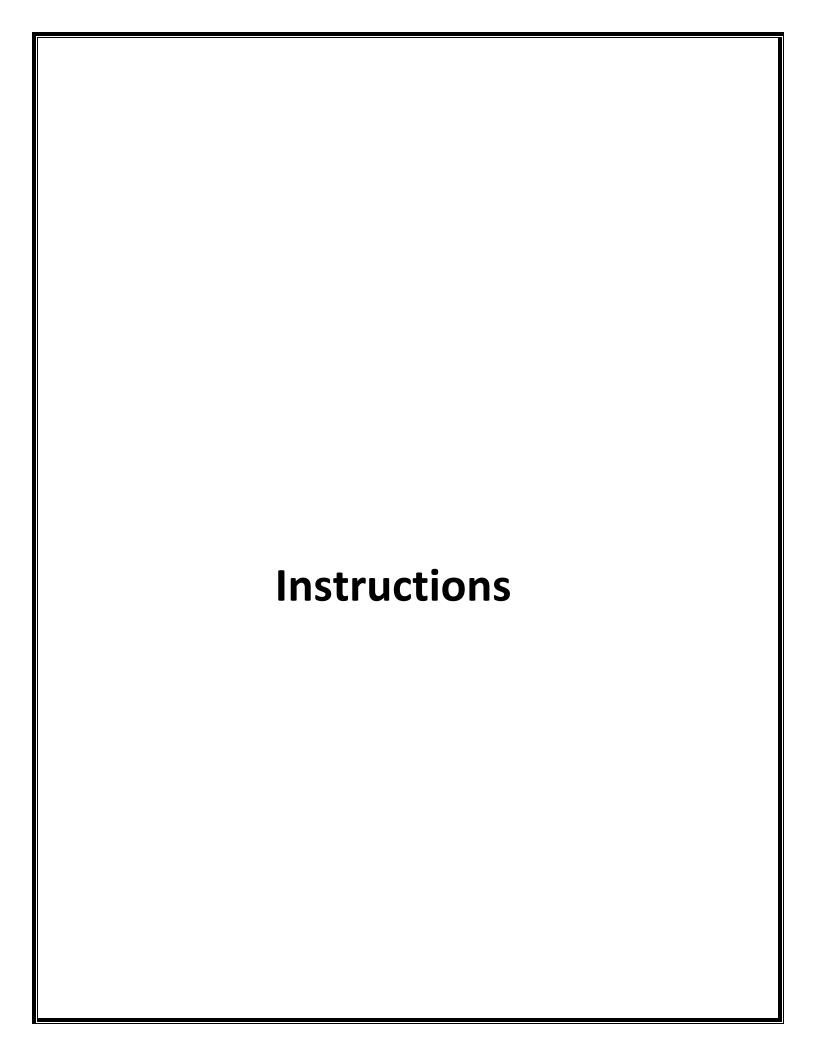
EXCEPTION OR ALTERNATES TO SPECIFICATIONS, TERMS OF SALE, AND DISCOUNTS AVAILABLE, MUST BE INCLUDED IN THE BID PRIOR TO OPENING DATE.



AGREEMENT

CITY OF WALTHAM	
ARTICLE 1. This agreement, made this day of, 2014 by and between the CITY OF WALTHAM, party of the first part, hereinafter called the CITY, by its MAYOR, and	
hereinafter called the CONTRACTOR.	
ARTICLE 2. Witnesseth, that the parties to this agreement, each in consideration of the agreement on the part of the others herein contained, do hereby agree, the CITY OF WALTHAM for itself, and said contractor for his heirs, executors, administrators and assigns as follows:	
To furnish all equipment, machinery, tools and labor, to furnish and deliver all materials required to be furnished (except as otherwise specified) and deliver in and about the project and to do and perform all work in strict conformity with the provisions of this Contract and of the Notice to Bidders, bid, Project Manual, and Drawings hereto annexed. The said Notice to Bidders, bid, Project Manual, and Drawings are hereby made a part of this contract as fully and to the same effect as if the same had been set forth at length and incorporated in the contracts.	
ARTICLE 3. In consideration of the foregoing premises the CITY agrees to pay and the CONTRACTOR agrees to receive as full compensation for everything furnished and done by the CONTRACTOR under this contract, including all work required by not included in the items herein mentioned, and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work specified, and for well and faithfully completing the work, and the whole thereof, as herein provided, such prices as are set forth in the accompanying bid.	
Date for final completion of the project is 90 days from the date of the Notice-to-Proceed (NTP).	
This Agreement entered into as of the day and year first written above.	

CITY OF WALTHAM, MASSACHUSETTS	
FOR THE CITY	FOR THE COMPANY
Jeannette A. McCarthy, MAYOR, City of Waltham Date:	CONTRACTOR (Signature), Date:
	Company
John B. Cervone, City Solicitor Date: APPROVED AS TO FORM ONLY	Address
Maria Sheehan, WCAC Exec. Director Date:	
Joseph Pedulla, Purchasing Agent Date:	
Paul Centofanti, Auditor Date:	
I CERTIFY THAT SUFFICIENT FUNDS ARE AVAILABLE FOR THIS CONTRACT	



INSTRUCTIONS FOR BIDDERS

1. READ ALL DOCUMENTS.

Bidders should familiarize themselves with all the documents contained herein; it is mandatory that all Bids be in compliance with all the provisions contained in said documents.

2. <u>FORMS AND ATTACHMENTS.</u>

Bids are to be completed on the forms provided ONLY and enclosed in a sealed envelope marked on the outside "BID (title)" and the name and address of bidder. Attachments submitted in addition to the Waltham Purchasing Department produced forms may not be considered.

3. PRINTED OR TYPED RESPONSE.

All information must be typewritten or printed in ink, including the price the bidder offers in the space as provided on the bid form.

4. CORRECTIONS.

Bids that are submitted containing cross outs, white outs or erasures, will be rejected. All corrections or modifications to the original bid are to be submitted in a separate envelope, properly marked on the outside, "CORRECTION/ MODIFICATION TO BID (title)" and submitted prior to the bid opening.

ALL DOCUMENTS SUBMITTED WITH YOUR RESPONSE WILL BE INCORPORATED INTO THE CONTRACT.

5. PRICE IS ALL INCLUSIVE.

Bid prices shall encompass everything necessary for furnishing all items, materials, supplies or services as specified, and in accordance with the specifications, including proper packing, cost of delivery, and in the case of services, completion of same, as per specifications.

6. PRICE DISCREPANCY.

In the event of a discrepancy between the Unit Price and the Extension, the Unit Price shall prevail.

7. EXPLANATIONS, EXCEPTIONS

Explanations, exceptions or other information pertinent to the specifications may be made in writing and included in the same envelope with the bid.

8. BID DEPOSITS.

Bid deposits are to be made payable to the City of Waltham. In the event that the successful bidder fails to execute a Contract within (10) days of the receipt of said contract, such security shall be retained by the city as liquidated damages. Unsuccessful bidders' deposits will be returned immediately following the award to said successful bidder.

9. <u>WITHDRAW.</u>

A Bid may be withdrawn by written request prior to the schedule for the Bid Opening. No withdrawals are permitted after the bid opening date and time. Withdrawals after the bid opening date will cause the forfeit of the bid Deposit.

10. AWARD.

Bids will be awarded not later than (90) ninety days after the scheduled bid opening date, unless otherwise stated, in the specifications. Unless otherwise specified, bids will be evaluated on the basis of, completeness of your RFP response, responsiveness, responsibility, best price and experience.

11. AWARD CRITERIA.

Qualified and responsive proposals will be evaluated based on Price, Technical, and Compliance requirements

12. DISCOUNTS.

Discounts for prompt payments will be considered when making awards.

13. TAX EXEMPT.

Purchases by the City of Waltham is exempt from any Federal, State or Massachusetts Municipal Sales and/or Excise Taxes.

14. SAMPLES.

The City of Waltham may require the submission of samples either before or after the awarding of a contract. Samples are to be submitted, at no charge to the City, so as to ascertain the product's suitability. If specifically stated in the Bid that samples are required, said samples must be submitted with the Bid prior to the Official Bid Opening. Failure to submit said samples would be cause for rejection of Bid. All samples must be called for and picked up within (30) thirty days of award or said samples will be presumed abandoned and will be disposed of.

15. ACTIVE VENDOR LIST.

Vendors who wish to remain on the Active Bid List must either submit a Bid, No Bid, or a letter requesting same, no later than the Official Bid Opening. This is applicable to those vendors who have received the Invitation to Bid.

16. FUNDS APPROPRIATION.

THE CONTRACT OBLIGATION ON BEHALF OF THE CITY IS SUBJECT TO PRIOR

APPROPRIATION OF MONIES FROM THE GOVERNMENTAL BODY AND AUTHORIZATION BY
THE MAYOR.

- 17. THE AWARDING AUTHORITY RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS, OR ANY PART OF ANY BID, WHICH IN THE OPINION OF THE AWARDING AUTHORITY, IS IN THE BEST INTERESTS OF THE CITY OF WALTHAM.
- 18. THE TAX ATTESTATION CLAUSE, CERTIFICATION OF NON-COLLUSION AND THE CERTIFICATE OF VOTE AUTHORIZATION, are required by statute and are an integral part of the Invitation for Bid and must be completed and signed by the person submitting the Bid, or by the

person/persons who are officially authorized to do so. Failure to do so may disqualify the bid.

19. STANDARD OF QUALITY.

Where, in the specifications, one certain kind, type, catalog number, brand or manufacturer of material is named, it shall be regarded as the required standard of quality. Where two or more are named, these are presumed to be equal and the Bidder may select one or the other. If the Bidder proposes to offer a substitute as an equal, he shall so indicate on the Bid Form, the kind, type, catalog number, brand, or manufacturer of material that is offered as an equal, and describe where it differs from the specifications. Substituted items must be capable of performing all the functions and/or operational features described or indicated in the specifications. Failure to indicate the description of any substitute item on the Bid will be interpreted to mean that the Bidder will furnish the item or service as specified.

20. MODIFICATION.

No agreement, understanding, alteration or variation of the agreement, terms or provisions herein contained shall bind the parties, hereto unless made and executed in writing by the parties hereto.

21. ASSIGNMENT.

The final payment for work done under this Contract shall be made only after the Contractor has signed a statement under the penalty of perjury, certifying that he has completed the work described in the final estimate. Neither party hereto shall assign this Contract or sublet it in part or as a whole without the prior written consent of the other party hereto. The Contractor shall not assign any sum or sums due or becoming due to him hereunder without the prior written consent of the City.

22. DELIVERIES:

- a) The Contractor shall pay all freight and delivery charges. TheWaltham Purchasing Department does not pay for shipping and packaging expenses. Items must be delivered as stipulated in the specifications. All deliveries must be made to the inside of city buildings. Sidewalk deliveries will not be accepted. City personnel are not required to assist in the deliveries and contractors are cautioned to notify their shippers that adequate assistance must be provided at the point of delivery, when necessary.
- b) All items of furniture must be delivered inside the building, set up, in place and ready for use. Deliveries are to be made between the hours of 8:30 a.m. and 3:00 p.m., Monday through Friday, except on holidays.
- c) All damaged items, or items which do not comply with specifications will not be accepted and title therefore will not vest to the Waltham Purchasing Department until such items are accepted and signed for, in good order, by the receiving department.
- d) The contractor must replace, without further cost to the Waltham Purchasing Department, such damaged or non-complying items before payment will be made.

23. LABELING.

All packages cartons or other containers must be clearly marked with (a) building and room destination; (b) description of contents of item number from specifications; (c) quantity; (d) City of Waltham Purchase Order Number and (e) Vendor's name and order number.

24. **GUARANTEES.**

Unless otherwise stipulated in the specifications, furniture, equipment and similar durable items shall be guaranteed by the contractor for a period of not less than one year from the date of delivery and acceptance by the receiving department. In addition, the manufacturer's guarantee shall be furnished. Any items provided under this contract which are or become defective during the guarantee period shall be replaced the contractor free of charge with the specific understanding that all replacements shall carry the same guarantee as the original equipment. The contractor shall make such replacement immediately upon receiving notice from the Purchasing Agent.

25. SINGLE VENDOR.

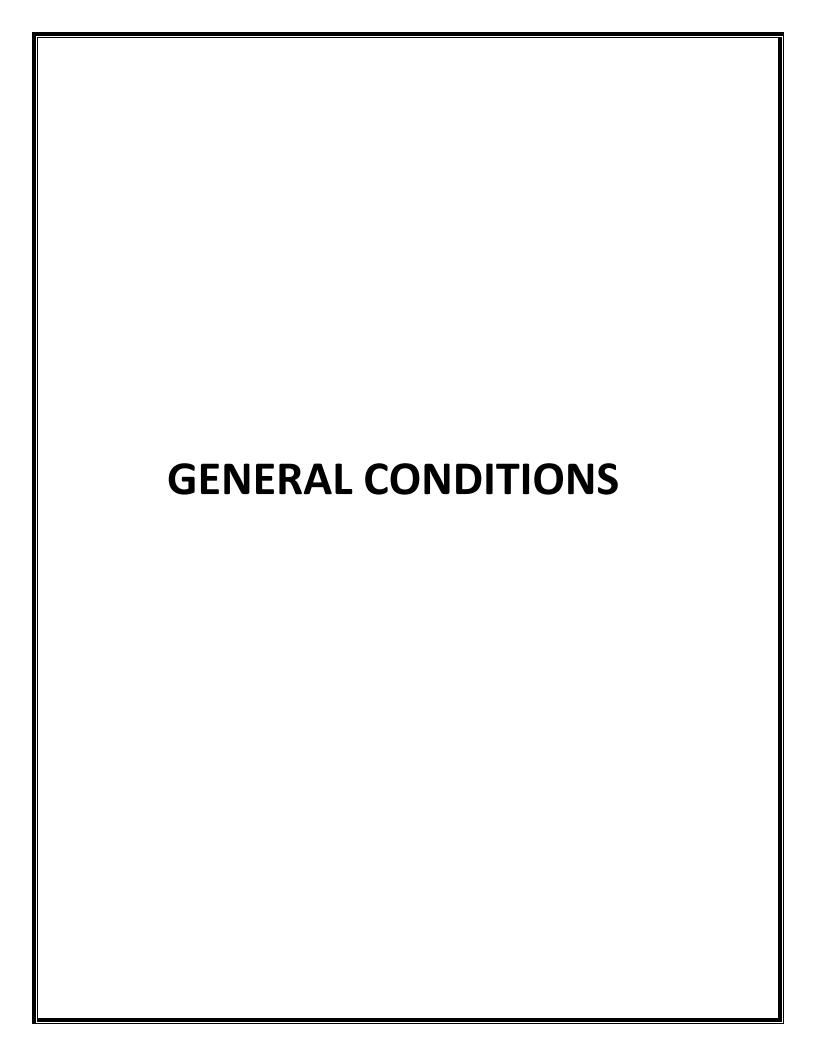
The Waltham Purchasing Department desires to award a single contract based on the Grand Total Price. However, where applicable, the City reserves the right to make multiple awards on a unit price basis if, in the opinion of the Waltham Purchasing Department, it is in the best interest of the Waltham Purchasing Department.

26. CHANGE ORDERS.

Change orders are not effective until, if, as and when signed by the Mayor and no work is to commence until the change orders are fully executed.

28. BID OPENING INCLEMENT WEATHER

If, at the time of the originally scheduled bid opening, City Hall is closed to inclement weather or another unforeseeable event, the bid opening will be extended until 2:00 PM on the next normal business day. Bids will be accepted until that date and time.



GENERAL CONDITIONS

1. <u>INFORMATION</u>

All information during the bid process shall come from the Office of the City Purchasing Agent. No communication is to be exchanged with any other city official and or its agents. The Contractor shall inquire at this office for any information needed. Wherever the words "or equal as approved" are used, it is to be understood that the opinion of the City Purchasing Agent shall govern.

2. SUITS

The Contractor shall assume defense of and shall indemnify and hold the City and its agents harmless from all suits and claims against the City and its sub-contractors arising from the use of any invention, patent right labor or employment, or from any act of omission or neglect of the City, its agents, employees or any subcontractor in performing the work, under this contract.

3. <u>LAWS AND REGULATIONS</u>

The Contractor shall conform to all the applicable rules, regulations, laws and ordinances of the City of Waltham, the Commonwealth of Massachusetts, the United States of America and all agencies having jurisdiction over this contract.

4. PROTECTION OF PROPERTY

The Contractor shall take all proper precautions to protect the City's property from damage and unnecessary inconvenience. Any City property damaged by the Contractor in carrying out the provisions of this contract shall be restored to its original condition, by and at the expense of the Contractor.

5. PROTECTION OF PERSONS

The Contractor shall take all proper precautions to protect persons from injury, unnecessary inconvenience, and shall be responsible for his failure to do so. The Contractor agrees to hold the City harmless from any and all liabilities of every nature and description, which may be suffered through bodily injury, including death, to any person, by reason of negligence of the Contractor, his agents or employees, or any subcontractor.

6. CONTRACT DURATION.

This contract is for the period required to complete the project not withstanding any guarantees

7. INSURANCE

A. WORKMAN'S COMPENSATION: The Contractor shall provide insurance for the payment of compensation and furnishing of other benefits under Chapter 152 of the General Laws of the Commonwealth of Massachusetts to all persons to be employed under this contract, the premiums for which shall be paid by the Contractor. Contractors shall provide insurance on a primary basis and the contractor's policy shall be exhausted before resorting to other policies. The contractor's policy is the primary one not the contributory.

B. COMPREHENSIVE GENERAL LIABILITY

Bodily Injury: \$1,000,000 Each Occurrence

\$2,000,000 Aggregate

Property Damage: \$1,000,000 Each Occurrence

\$2,000,000 Aggregate

C. AUTOMOBILE (VEHICLE) LIABILITY

Bodily Injury \$2,000,000 Each Occurrence

Property Damage \$1,000,000 Aggregate

D. UMBRELLA POLICY

General liability \$2,000,000

Your bid response must include a Certificate of Insurance with the above limits as a minimum. In addition, the Certificate of Insurance must have the following text contained in the bottom left box of the Certificate: "The City of Waltham is a named additional insured for all insurances under the contract, excluding Automobile and Workers Compensation coverage". Failure by the contractor to provide a current and updated insurance policy, during the entire duration of the contract, may result in additional legal liability. The Certificate of Insurance must be mailed directly to:

Office of the Purchasing Agent Purchasing Department

City of Waltham

610 Main Street

Waltham, MA 02452

8. LABOR AND MATERIALS BOND

The Contractor agrees to execute and deliver to the City, a Labor and Materials or Payment Bond equal to 100% of the contract value. This contract shall not be in force until said bond has been delivered and accepted by the City. Bond to be issued by a company licensed by the Commonwealth of Massachusetts.

A LETTER FROM A SURETY COMPANY CERTIFYING THAT THE CONTRACTOR IS QUALIFIED AND CAPABLE OF OBTAINING THE ABOVE BONDS MUST BE INCLUDED WITH HIS/HERS BID.

9. <u>PERSONNEL:</u>

The Contractor shall employ a competent supervisor and all properly licensed personnel necessary to perform the services required in this contract. The City Purchasing Agent shall have the right to require the Contractor to remove and/or replace any of the personnel for nonperformance or for unprofessional behavior. The City Purchasing Agent may require the Contractor to submit a weekly performance record of the areas and of the work performed, on forms approved by the City Purchasing Agent. The Contractor or his supervisor shall be available to inspect such work as required by the City Purchasing Agent.

10. PREVAILING WAGES

The Contractor is required to pay the prevailing wages as determined under the provisions of Chapter 149, Sections 26 and 27D of the Massachusetts General Laws, including the submission of weekly payrolls to the awarding authority. A copy of the prevailing wage schedule can be found at www.city.waltham.ma.us/open-bids

11. MATERIALS

The City or its Agent reserves the right to approve or reject any supplies, material or equipment used by the Contractor. The Contractor agrees to replace any supplies, material or equipment used by the Contractor. The Contractor agrees to replace any rejected supplies, materials or equipment, to the satisfaction of the City or its Agents.

12. TERMINATION OF CONTRACT

This contract may be terminated by the City upon deliverance to the Contractor of a five-day written notice of said termination.

13. <u>CONTRACT OBLIGATIONS</u>

Contract obligations on behalf of the City are subject to an annual appropriation to cover the contract obligation.

14. <u>BIDDER EXPERIENCE EVALUATION</u>

Each bidder shall submit with his bid, all the information relative to their experience and qualifications in performing the work required under this contract and shall have been in business for a minimum of five (5) years, in order for their bid to be considered.

15. NOT-TO-EXCEED AMOUNT

The bid amount proposed in your company's response is a "not-to- Exceed" amount unless the City makes changes, in writing, to the scope of work to be performed. The Change Order must be signed and approved by the City's Purchasing Agent, City Auditor, Law Department and the Mayor prior to the commencement of the change order work. No work is to begin until the proper approvals have been obtained. A change order will be priced at the unit price. Failure to comply with this procedure will result in the cancellation of the contract and the non-payment of services provided

16. FINANCIAL STATEMENTS.

The City <u>may</u> require, within five (5) days after the bid opening, a complete and detailed Financial Statement prepared by a Certified Public Account, to determine a bidder's financial stability.

17 BREACH OF CONTRACT/ NON PERFORMANCE

If the Contractor shall provide services in a manner, which is not to the satisfaction of the City, the City may request that the Contractor refurnish services at no additional cost to the City until approved by the City. If the Contractor shall fail to provide services, which are satisfactory to the City, the City in the alternative may make any reasonable purchase or Contract to purchase services in substitution for those due from the Contractor. The City may deduct the cost of any substitute Contract for nonperformance of services together with incidental and consequential damages from the Contract price and shall

withhold such damages from sums due or to become due to the Contractor. If the damages sustained by the City exceed sums due or to become due, the Contractor shall pay the difference to the City upon demand. The Contractor shall not be liable for any damages sustained by the City due to the Contractor's failure to furnish services under the terms of this Contract if such failure is in fact caused by the occurrence of a contingency the nonoccurrence of which was a basic assumption under which this Contract was made, including a state of war, embargoes, expropriation of labor strike or any unanticipated federal, state or municipal governmental regulation of order, provided that the Contractor has notified the City in writing of such cause within seven (7) days after its occurrence.

18 RIGHT TO AUDIT

The City of Waltham has the right to review and audit documents related to this contract. This right extends to any subcontractor, supplier or other entity used by the prime contractor to fulfill the obligations under this contract.

19. <u>CITY ORDINANCE. APPROVAL OF CONTRACTS BY MAYOR, SEC. 3-12 OF THE CITY</u> ORDINANCES.

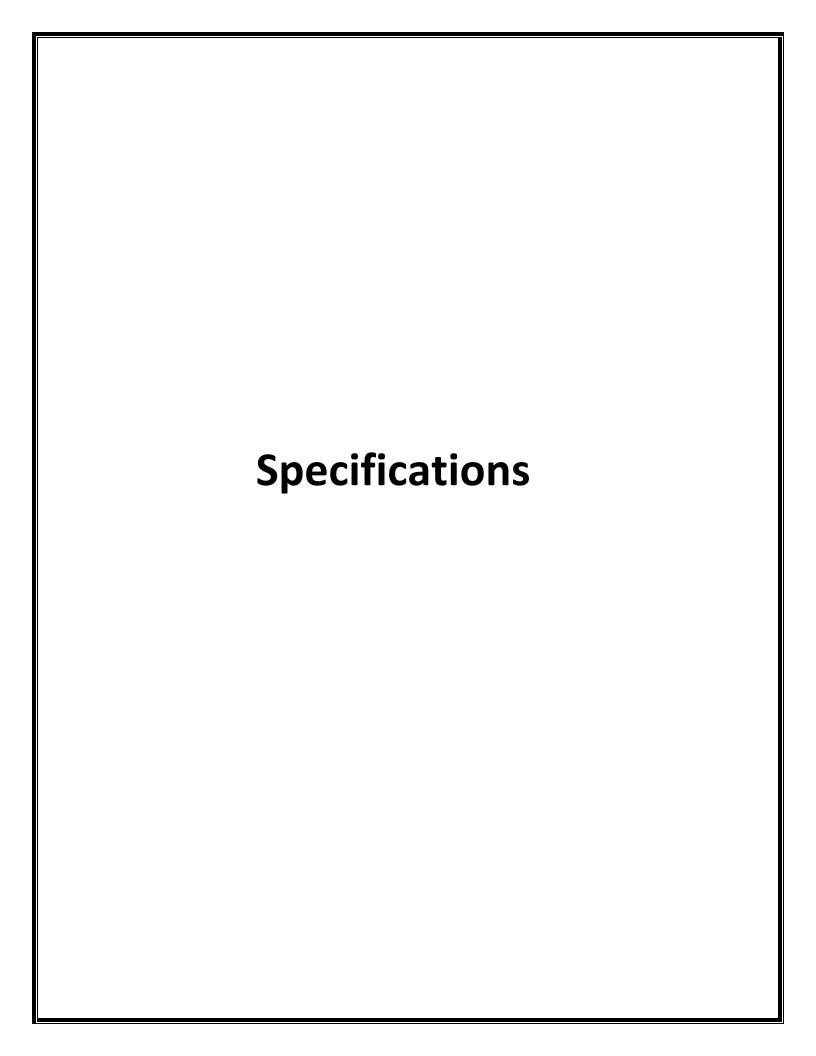
All contract made by any department, board or commission where the amount involved is two thousand dollars (\$2,000) or more shall be in writing, and no such contract shall be deemed to have been made or executed until the approval of the Mayor is affixed thereto. Any construction contract shall, and all other contracts may, where the contract exceed five thousand dollars (\$5,000) be required to be accompanied by a bond with sureties satisfactory to the Mayor.

20. PAYMENT SCHEDULE.

The contractor shall be paid for completed work and/or delivered materials according to the following schedule: up to 30% at the time of the schematic acceptance, up to 30% at the delivery of equipment, up to 30%, at the acceptance of the project. The City shall retain 5% for material and 5% for labor. This amount will be paid no later than 30 days following acceptance by the City. The contractor is required to produce invoices before payments are made.

NOTE

Failure to submit any of the required documents, in this or in other sections, with your bid response package may cause the disqualification of your proposal



Waltham Community Access Corporation WCAC-TV/MAC-TV UPGRADE TO HD OVERVIEW TECHNICAL SPECIFICATION

The Waltham Community Access Corporation will be upgrading all of its equipment to HD. It will be broken down into 4 separate sections.

Government Control Rooms

(5 Rooms need to be upgraded) 3 large rooms should mirror each other and the 2 smaller rooms should mirror each other. The smaller rooms will have control rooms built into mobile carts. Bids should include wall plates for connection to the cameras and audio.

2. Video Playback Server

WCAC will run all three standard definition channels and one, "best of" P.E.G. HD Channel to air on RCN. WETV (High School) playback will be moved to WCAC. Tightrope Carousel Digital Signage for all three channels will be integrated into the new system. WCAC will need a new HD Tightrope Carousel Digital Signage system added to the HD channel. A new server room will be built at WCAC.

3. WCAC-TV Control Room/Studio

WCAC will upgrade the studio cameras, tripods, video switcher, audio board, record deck, studio lighting and one section of cyclorama to be added

4. WCAC/MAC Channel field equipment/editing systems

Cameras for field shoots. upgrade Tricaster to HD, cameras for the Tricaster, and editing systems. WCAC/MAC channels are Macintosh based. Upgrades to software to support HD editing.

All electrical work for the WCAC server room/studio, or any additional electrical upgrades needed in the government spaces, and HVAC work will be done by a City of Waltham designated contractor(s).

WCAC's control room has a Broadcast Pix video switcher which needs to be upgraded. All other video switchers in this bid(s) must mirror WCAC's studio control room.

WCAC TriCaster to be upgraded to HD. Current mobile cart can be repurposed.

1. Government Control Rooms - Overview

- 1. City Hall Chambers, Waltham City Hall, 610 Main St.
 - (4) IP based robotic cameras, camera controls, switcher, graphic generator, record decks, video monitoring, DVD recorder. Output of the projector for presentations must be connected to the switcher. This site will go, "Live". Any equipment needed to send an HD signal to RCN must be purchased from RCN. This room will also have to record a SD DVD. HD signal on RCN, SD signal on RCN, Verizon and Comcast
- 2. Hoover Room, Waltham City Hall, 610 Main St.
 - (3) IP based robotic cameras, camera controls, remote switcher, record deck, and audio. Microphones need to be ceiling mics. Control room must be mobile and hooked into plate on wall to access cameras and audio. Control Unit to be mobile.
- 3. Auditorium, Government Center, 119 School St.
 - (3) IP based robotic cameras, one camera will be on tripod, switcher, current microphones do not need to be replaced, there is a hum in one of the inputs, that will need to be fixed. Record decks, and lighting. The stage is dark. (Stage has lights, but are too bright in comparison to the room which is lit by small chandeliers. A couple of lights will need to be added.
- 4. Meeting Room, Government Center, 119, School St.
 - (2) IP based robotic cameras, remote switcher, record deck, and audio . Control room to be mobile and hooked into plate on wall to access cameras and audio. Control unit to be mobile.
- 5. Cannon Lecture Hall, Waltham High School, 617 Lexington St.
 - (3) IP based robotic cameras, switcher, record deck, and monitors. . 4 video monitors for viewing presentations only, the signal will be connected to the control room. The microphones must be able to be muted by the committee members. This site will go, "Live". Any equipment needed to send an HD signal to RCN must be purchased from RCN. This room will also have to record a SD DVD. HD signal on RCN, SD signal on RCN, Verizon and Comcast

Rooms 1, 3 and 5 should mirror each other. All equipment should be mimic each other. Rooms 1 & 5 must be able to send HD and an SD down converted signal to our playback system at WCAC. Vender must work with RCN to find out what equipment is needed to go "live" on the HD channel.

Numbers 2 & 4 should mirror each other. These controls to be built into a mobile cart that will hook into plates in the walls. All equipment should be mimic each other. Rooms, 2, 3 and 4 do not have to go, "Live". Events/meetings will be recorded for playback at a later date.

The following list of equipment fits the specs that we want for each room. All equipment must meet the specs of the equipment listed or better. Schematics for all control rooms must be provided to THE City of Waltham

City Hall Chambers, Waltham City Hall, 610 Main St.

- (4) Panasonic AW-HE120SN/SE cameras and controls, cables, batteries, and adapters
- Broadcast Pix Mica with 1000 Panel all controls, monitors, cables and adapters
- AJA KiPro Portable Recorder
- Sony VRDMC6 DVDirect Compact Size DVD Burner with AVCHD Recording
- Shure wireless handheld microphone with stand
- All monitors, cables, racks and materials
- System integration and design

City Hall Hoover Room, Waltham City Hall, 610 Main St.

- (3) Panasonic AW-HE60SN/SE camera and controls, cables, batteries, and adapters
- Broadcast Pix Flint with 500 panel all controls, monitors, cables and adapters
- AJA KiPro Portable Recorder
- Shure SCM810 8 Channel Auto mixer
- (3) Vaddio 999-8860 Acoustic Echo Canceling ceiling mics
- Mic stand
- Audio-Technica AT897 Short Condenser Shotgun Microphone
- Big Foot mobile cart
- All monitors, cables, racks, custom wall plate(s) and materials
- System integration and design

Auditorium, Government Center, 119 School St.

- (3) Panasonic AW-HE120SN/SE camera and controls, cables, batteries, and adapters
- Broadcast Pix Flint with 500 panel all controls, monitors, cables and adapters
- AJA KiPro Portable Recorder
- Shure SCM810 8 Channel Auto mixer
- Sachtler 5199 Combi Pedestal
- Sachtler 1006 dv10 Fluid pan/Tilt head
- Snake custom RoboCam Snake 100'
- Florescent lights (There are historical preservation requirements in this room.
 We feel its best for bidders to see the room and choose the lighting that they feel is best.)
- All monitors, cables, racks and materials

System integration and design

Government Center Basement, 119 School St.

- (2) Panasonic AW-HE60SN/SE camera and controls, cables, batteries, and adapters
- Broadcast Pix Flint with 500 panel all controls, cables and adapters
- AJA KiPro Portable Recorder
- Shure SCM810 8 Channel Auto mixer (the mics we have should be fine, but they do need new audio cables)
- Big Foot mobile cart
- Sony VRDMC6 DVDirect Compact Size DVD Burner with AVCHD
- All monitors, cables, racks, custom wall plate(s) and materials
- System integration and design

Cannon Lecture Hall, Waltham High School, 617 Lexington St.

- (3) Panasonic AW-HE120SN/SE cameras and controls, cables, batteries, and adapters
- Broadcast Pix Mica with 1000 Panel all controls, cables and adapters
- AJA KiPro Portable Recorder
- Sony VRDMC6 DVDirect Compact Size DVD Burner with AVCHD Recording
- Shure SCM810 8 Channel Auto mixer
- 8 Shure MX412S C/S/N_12 inch (30.5 cm), Attached Preamp, Mute Switch 12 inch gooseneck
- (2) Sony KDL70R550A 70" TV for front walls of room
- (2) Sony KDL32W650A 32" for columns for viewing from stage
- LED-L large Security Mounts for 70" TV
- LED-S small security mounts for 32" TV
- All monitors, cables, racks and materials
- System integration and design

Installation and Training to be included

- Vendor must provide loaner equipment within 48 hours in case of a warranty service repair.
- Installation must be done by manufacturer or certified technicians of vendor and may not be subcontracted to parties who are not employees of the vendor.

City Hall Chambers and Cannon Lecture Hall **Internal Processing and operation system:**

HD 4-4-4 YPrPb, 10 bit 1080i

Integrated rack mountable Server with Microsoft Windows 7 O/S.

1/0

8 external HD-SD/SDI video inputs without the use of additional conversion. 6 SDI Outputs including: 1080i Program, 1080i Clean Feed, Multi Def (720P or SD) Program, Multi Def Clean Feed, 1080i Preview, and 1080i "Power Aux" Program and Preview DVI outputs at 1920x1080

Switcher

Tactile control panel With 3 axis joystick and fader arm Classic next transition architecture Switchable 4:3/16:9 Operation Switchable 50/59.94hz Operation Async support for all SDI inputs

Aspect Ration Control (ARC) available for all inputs

ARC available for SD outputs

6 levels of key each with independent DVE for each

Chromakey of any input

Snapshot and sequential memories of all system functions, including switcher status, graphics and clips.

Graphics

Integrated dual channel character generator, with pre-loaded templates, rolls and

Dynamic Speed adjustment of Rolls and Crawls Integrated dual channel still store with key. Edit Graphics on the fly. Integration to external Databases Integration to Twitter

Clip and Animation Stores

Integrated HD Clip Store with Stereo Audio. Minimum of 4 hours (250Gb) at highest quality level

Native codec support ProRes, H.264 and DNxHD

Clip start can be initiated by switcher transition.

Clips can be trimmed.

Clips can loop.

Clips can automatically Advance

Mix 720P, 18080i and SD Clips

Mix 4:3 and 16:9 Clips

Communication and control

Single point of operation for solo operator control of all switcher and integrated functions.

Expandable from single operator to collaborative operation.

Distant control of all functions through web browser.

Remote control of all functions from iPad

Ability to remotely control Panasonic PTZ cameras directly from panel. Includes:

Pan, Tilt and Zoom with 3 axis joystick.

Focus and Iris control with knobs

Display adjustments on physical and soft panels

Monitoring

support for Dual 1920x1080 DVI Displays

supports touch screen control of all functions

Multiple Preview, Program, Cleanfeed and Aux output windows

4:3, Title Safe and Center Graticules for output windows

Multiple External and Internal Source windows

Tally and mnemonic support for all inputs

File Names on Internal Source Windows

Completely Customizable Multi-View layouts. Includes ability to independently size and position all source and output windows across both monitors.

Multiple Clocks

Countdown Clocks

Key Status display with full motion, tally and modification status

Monitor all graphic libraries.

Monitor all clip libraries.

Redundancy

Fail over input to Program output

Failsafe control of application via GUI

Optional Redundant power for Control Panel

Training

To City/WCAC staff shall be provided by Factory Certified trainers

Hoover Room (City Hall) Basement Government Center and Auditorium Government Center

Internal Processing and operation system:

1080i internal processing

Integrated rack mountable Server with Microsoft Windows7 64 bit OS.

1/0

All without the use of external conversion

4 external HD-SD/SDI video inputs

2 HDMI inputs

HD-SDI Program Output

HDMI Program Output

Analog Composite and Component Program Outputs

Switcher

Tactile control panel With 3 axis joystick and fader arm

Classic next transition architecture

Switchable 4:3/16:9 Operation

Switchable 50/59.94hz Operation

3 levels of key each with independent DVE for each

Chromakey of any input

Snapshot and sequential memories of all system functions, including switcher status, graphics and clips.

Graphics

Integrated dual channel character generator, with pre-loaded templates, rolls and crawls.

Integrated dual channel still store with key.

Edit Graphics on the fly.

Clip and Animation Stores

Dual Integrated HD Clip Store with Stereo Audio. Minimum of 2 hours at highest quality level

Native codec support ProRes, H.264, DNxHD, and Quicktime Animation

Clip start can be initiated by switcher transition.

Clips can be trimmed.

Clips can loop.

Clips can automatically Advance

Recording

Internal Motion JPEG recording of Program

Streaming

Internal Adobe Flash or Microsoft Expression streaming encoder

Communication and control

Single point of operation for solo operator control of all switcher and integrated functions.

Expandable from single operator to collaborative operation.

Distant control of all functions through web browser.

Remote control of all functions from iPad

Ability to remotely control Panasonic PTZ cameras directly from panel. Includes:

Pan, Tilt and Zoom with 3 axis joystick.

Focus and Iris control with knobs

Display adjustments on physical and soft panels

Monitoring

support for Dual 1920x1080 DVI Displays

supports touch screen control of all functions

Multiple Preview, Program, Cleanfeed and Aux output windows

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Completely Customizable Multi-View layouts. Includes ability to independently size and position all source and output windows across both monitors.

Multiple Clocks

Countdown Clocks

Key Status display with full motion, tally and modification status

Monitor all graphic libraries.

Monitor all clip libraries.

Redundancy

Fail over input to Program output

Failsafe control of application via GUI

Optional Redundant power for Control Panel

Training

To City/WCAC staff shall be provided by Factory Certified trainers.

City Hall Chambers, Cannon Lecture Hall, and Government Center

Cameras

Power Requirements: DC 12 V ±10 % (AC adaptor provided)

Power Consumption: 1.75 A

Weight: Approx. 3.0 kg (Approx. 6.6 lb) (including the mount

brackets)

Dimensions (W x H x D): 180 mmx228 mmx220 mm (7.1 inches x 9.0 inches x 8.7

inches) (excluding protrusions, cable cover, direct ceiling

mount brackets)

Camera:

Image Sensors: 1/3 progressive 2.2 megapixel, 3MOS sensor

Lens: Motorized 20x zoom, F1.6 to F3.4 (f=4.5 mm to 90 mm, 35 mm

equivalent: 32.13 mm to 6452.5 mm)

Focus Distance: Entire zooming range: 800 mm, Wide end: 400 mm

Output Format: 1080/59.94p*1, 1080/59.94i, 720/59.94p, 480/59.94p*1,

480/59.94i, 1080/50p*1, 1080/50i, 720/50p, 576/50p*1, 576/50i

Synchronization System: Internal/External synchronization (BBS/3SY)

Pan-tilt Mechanism:

Installation Method*2: Stand-alone (Desktop) or suspended (Hanging) *To ensure

safety, AW-HE120 must be secured by using the mount bracket

provided.

Pan/Tilt Operation Speed: Max 60°/sec.

Pan Range: ±175°

Tilting Range*3: —30° to 210° * Depending on the pan or tilt position, AW-HE120

may be reflected in the image.

Quietness: NC35
Preset Positions: 100
I/F: IP/RS422

Footnote: *1 When 1080/59.94p, 1080/59.94p and 576/50p are selected, output signals on SDI and analog component are 1080/59.94i, 1080/50i, 480/59.94i and 576/50i respectively.

*2 For safety purpose, the included mounting, bracket must be used for installation.

Hoover Room, City Hall and Basement Government Center Cameras

Power Requirements: DC 12 V (AC adaptor supplied)

Power Consumption: 1.3 A (AW-HE60H), 1.4 A (AW-HE60S)

Weight: Approx. 1.4 kg (Approx. 3.1 lb) without mount bracket Dimensions (W x H x D): 160 mm x 178 mm x 166 mm (6-5/16 inches x 7 inches x 6-

9/16 inches) (excluding protrusions, cable cover, direct

ceiling mount bracket)

Image Sensors: 1/3 type Full-HD MOS

Lens: Motorized 18x zoom, F1.6 to F2.8 (F=4.7 mm to 84.6 mm,

35 mm equivalent: 36.9 mm to 664.5 mm)

Focus Distance: Entire zooming range: 1.0m (3.3 ft.), Wide end: 30 cm

(0.98 ft.)

Output Format: 1080/59.94p*1, 1080/59.94i, 1080/29.97PsF, 720/59.94p,

480/59.94p*1, 480/59.94i, 1080/50p*1, 1080/50i,

1080/25PsF, 720/50p, 576/50p*1, 576/50i

Synchronization System: AW-HE60S: Internal/External synchronization (BBS)

AW-HE60H: Internal/External synchronization

Installation Method*2: Stand-alone (Desktop) or suspended (Hanging)

Pan/Tilt Operation Speed: Max 90°/s

^{*3} The camera may be subject to external glare, depending on the pan and tilt position.

Pan Range: ± 175° Tilt Range*3: 90° to -30°

Quietness: NC35 (at normal speed), NC40 (when preset)

Preset Positions: 100

Input/Output Connector: RJ-45 (IP) /RD422A (MULTI-IF)

Footnote: *1 When 1080/59.94p or 1080/50p mode is selected, a progressive signal is output through HDMI OUT, and an interlace signal is output through analog component OUT and SDI OUT.

When 480/59.94p or 576/50p mode is selected, a progressive signal is output through HDMI OUT (AW-HE60HN/HE only) and analog component OUT, and an interlace signal is output through SDI OUT (AW-HE60SN/SE only).

When IP images distributed, component signals (480/59.94i, 576/50i) are not output through mult-interlace.

2. Video Playback Server

400 Main Street, Waltham MA

- IP based video playback system with integrated VOD and Live Streaming
- 3 SD channels and 1 HD channel
- Web accessible Graphic User Interface for content upload, program scheduling and content management
- Minimum of 11 TB storage
- Ability to play SD or HD content
- Server scalable to playback 20 channels of SD or 10 channels of HD in one appliance
- Real time up/down format conversion for SD and HD files, depending on output
- Cloud-based content acquisition with transcoding, meta data creation and scheduling integration
- True downstream graphics for bugs, crawls and lower thirds
- Encoders for 9 sources
- Internal capture of live steaming signal
- Support of legacy router integration
- 5 years of technical support
- VOD
- Virtually unlimited number of users
- Content management through web interface
- Content upload integrated with content playback
- Embeddable web browser for content organization

^{*2} For safety purpose, the included mounting bracket must be used for installation.

^{*3} Depending on the pan or tilt position, the camera may shoot itself

- Live Stream
- Integrated with playback system
- Provide multiple streaming formats including HLS for iOS devices, MPEG2-TS, H.264TS/RTMP, HDS
- Support 4 live streams simultaneously
- All VOD content and Live Streaming available on Roku
- Multi-viewer for return signal monitoring
- 50 inch screen
- Minimum of 9 channels on display
- Display includes audio levels
- Near Line Storage-NAS
- Integrated with playback system from content retrieval
- Minimum of 18TB storage, expandable to 36
- Battery Power Backup
- Rack Unit for equipment
- Cabling, installation and training for all equipment
- System must be currently airing an HD channel in Massachusetts on either RCN, Comcast or Verizon
- Authorized dealer or manufacturers must install all video playback server equipment
- Tightrope Carousel Digital System (HD) must be integrated into the HD Channel
- WCAC, MAC, and WETV Tightrope Carousel Digital Systems will be integrated into the new playback system. All playback equipment for the High School TV Studio will now be housed at WCAC
- All current content on WCAC/MAC/WETV must be downloaded onto the new system
- Schematics for the playback system must be provided to WCAC
- Must purchase HD converter box from RCN

3. WCAC Control Room and Studio – Overview 400 Main Street

WCAC will upgrade current Slate 1000 Broadcast Pix switcher to Mica 1000. The current hardware can be upgraded. Upgrade studio cameras to HD. Change current teleprompter program to a Macintosh based system. lights and an additional panel of cyc to our studio. The lights and cyc were purchased by High Output, order the exact lights and cyc listed on the bid. upgrading our audio board and tripods.

The following list of equipment fits the specs that we want for our studio/control room. All equipment must meet the specs of the equipment listed or better.

- (3) Sony HXC-D70 Camera(s) all cables, brackets, viewfinders, control units, power supplies, lens, lens control, memory cards and tally.
- (3) Sony HXCU-D70 CCU
- Upgrade from Slate 1000 Broadcast Pix to Mica all controls, monitors, cables, power supplies and adapters
- BrightEye 56 HD/SD/Analog Test Signal and Sync Pulse Generator
- (3) 737 Miller Pedestal with Millar Arrow 55
- (3) 692 Millar Pan Arm
- (2) KI PRO RACK AJA Digital Recorder/Converter
- (2) KI STOR 500 AJA 500 GB Removable Drive
- Mackie Onyx 1620i, 16 Channel Audio Mixing Board
- SNK164XL100 100' 16 x 4 XLR to Box audio snake
- LV5380 Leader Waveform/Vectorscope
- HD5DA AJA 1:4 HD Distribution Amplifier
- PVM1741A Sony 17" OLED Studio/Production Monitor
- 2 CQ CHCF48CYCRGBA Color Force 48 LED CYC Fixture
- 4 ETC 400CC Pipe Clamp
- RB Cyclorama Panel: 9'-6" high x 15' wide, IFR Grey Poly Cyc, sewn flat, with Webbing Grommets and
- S-Hooks on 12" ctrs top, 2" side hems, lined bottom hem with chain.
- Professional teleprompter software for Macintosh
- We would like to repurpose one of our older Macs for this if at all possible.
- All monitors, cables, racks, power supplies and materials
- System integration and design

Installation and Training to be included

- Vendor must provide loaner equipment within 48 hours in case of a warranty service repair.
- Installation must be done by manufacturer or certified technicians of vendor and may not be subcontracted to parties who are not employees of the vendor.
- Schematics for the control room must be provided to WCAC

Internal Processing and operation system specs:

HD 4-4-4 YPrPb, 10 bit 1080i Integrated rack mountable Server with Microsoft Windows 7 O/S.

1/0

8 external HD-SD/SDI video inputs without the use of additional conversion.
6 SDI Outputs including: 1080i Program, 1080i Clean Feed, Multi Def (720P or SD)
Program, Multi Def Clean Feed, 1080i Preview, and 1080i "Power Aux"
Program and Preview DVI outputs at 1920x1080

Switcher

Compatible with existing Broadcast Pix 1000 panel, or panel capable of the following:

Graphic files names on source and library buttons

Clip file names on source and library buttons

Tactile control panel With 3 axis joystick and fader arm

Classic next transition architecture

Switchable 4:3/16:9 Operation

Switchable 50/59.94hz Operation

Async support for all SDI inputs

Aspect Ration Control (ARC) available for all inputs

ARC available for SD outputs

6 levels of key each with independent DVE for each

Chromakey of any input

Snapshot and sequential memories of all system functions, including switcher status, graphics and clips.

Graphics

Integrated dual channel character generator, with pre-loaded templates, rolls and crawls.

Dynamic Speed adjustment of Rolls and Crawls

Integrated dual channel still store with key.

Edit Graphics on the fly.

Integration to external Databases

Integration to Twitter

Clip and Animation Stores

Integrated HD Clip Store with Stereo Audio. Minimum of 4 hours (250Gb) at highest quality level

Native codec support ProRes, H.264 and DNxHD

Clip start can be initiated by switcher transition.

Clips can be trimmed.

Clips can loop.

Clips can automatically Advance

Mix 720P, 18080i and SD Clips

Mix 4:3 and 16:9 Clips

Communication and control

Single point of operation for solo operator control of all switcher and integrated functions.

Expandable from single operator to collaborative operation.

Distant control of all functions through web browser.

Remote control of all functions from iPad

Monitoring

support for Dual 1920x1080 DVI Displays

supports touch screen control of all functions

Multiple Preview, Program, Cleanfeed and Aux output windows

4:3, Title Safe and Center Graticules for output windows

Multiple External and Internal Source windows

Tally and mnemonic support for all inputs

File Names on Internal Source Windows

Completely Customizable Multi-View layouts. Includes ability to independently size and position all source and output windows across both monitors.

Multiple Clocks

Countdown Clocks

Key Status display with full motion, tally and modification status

Monitor all graphic libraries.

Monitor all clip libraries.

Redundancy

Fail over input to Program output

Failsafe control of application via GUI

Optional Redundant power for Control Panel

Training

To City/WCAC staff shall be provided by Factory Certified trainers

Sony Camera Specs.

Camera Specifications Detail:

Built-In Optical Filters ND filters:1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

Dynamic Range 600%

Effective Picture Elements 1920x1080 Gain Selection -3,0,+3,+6,+9,+12db

Horizontal Resolution 1,000 TV lines or more (in 1920 x 1080i mode) 920 TV lines

(in SD mode)

Lens Mount Standard 2/3" B4 Bayonett mount

Modulation Depth NA

Optical System F1.4 Prism system

Pickup Device 3-chip 2/3-inch type Exmor Full-HD CMOS

S/N Ratio HD 59db, SD 65db (Y=Typical)

Sensitivity "F12 (typical) (1920 x 1080/59.94i mode), F13 (typical) (1920 x 1080/50i

mode) (at 2000 lx, 3200 K, 89.9% reflectance)"

Servo Filter Control NA

Shutter Speed 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000

General Specifications Detail:

Application Studio/Field operation

Dimensions (W x H x D) 144 (5 3/4)W,314 (12 3/8)D,223 (8 7/8)H, in mm and

inches

Format 1920 ◊ 1080/59.94i, 50i 1280 ◊ 720/59.94P, 50P"

Imager 2/3-inch type Exmor Full-HD CMOS

Mass Main body only: 3.4 kg (7 lb 7.9 oz)

Operating Temperature #10 C to +45 C (14 F to 113 F)

Power Consumption Approx. 1.92 A/12v Main unit (camera) + LCD viewfinder + auto

focus lens + microphone"

Power Requirements 12 V DC (10.5 V to 17.0 V)

Storage Temperature $\parallel 20$ C to +60 C ($\parallel 4$ F to 140 F)

Weight Main body only: 3.4 kg (7 lb 7.9 oz)

Input Connectors Specifications Detail:

Audio Input XLR 3-pin (x2, at front panel and rear panel)

DC IN XLR 4-pin (x1)

Genlock/Return IN BNC (x1), 1 Vp-p, 75 ^L©

Microphone Input XLR 3-pin (x2, at front panel and rear panel)

Return Control Return switch and assignable switches

Input/Output Connectors Specifications Detail:

CCU 26 MULTI PIN CONNECTER(CCZA/CCZAD cable connecter)

Intercom XLR 5-pin, female (x1)

Lens 12-Pin(x1)

Prompter BNC (x1), 1 Vp-p, 75 ^L©

Remote 8-pin (x1)

Viewfinder Digital interface (x1) and DXF type analog interface (x1)

Inputs and Outputs Specifications Detail:

Audio In XLR 3-pin (x2, at front panel and rear panel)

Audio Out NA

Camera Adaptor NA

DC In XLR 4-pin (x1)

DC Out 4-pin (x1)

Earphone Mini-jack 3-pin (x1)

Ethernet NA

Genlock In BNC (x1), 1 Vp-p, 75 ^L© HD-SDI Out (Dual Link) BNC (x1)

Lens 12-Pin(x1)

MIC In XLR 3-pin (x2, at front panel and rear panel)

Memory Stick Memory Stick DUO

Remote 8-pin (x1)

SDI In BNC (x1)

Test Out BNC (x1)

USB NA

Video Out Test out/SDI OUT

i.LINK NA **Output Connectors Specifications** Detail: DC OUT 4-pin (x1) HD SDI Out BNC (x1) Headphone Output XLR 5-pin, female (x1) Test OUT BNC (x1)

4. Field Equipment – Overview

WCAC needs to upgrade all field equipment and Macintosh computers. WCAC understand that the only authorized dealers of Macintosh, is Macintosh. Vendor does not need to be an authorized dealer to bid on the computer upgrades. The Cannon cameras will be the cameras used with our Tricaster. We need an audio mixer and video cables (100 FT) for the Tricaster.

The following list of equipment fits the specs that we want for our field equipment. All equipment must meet the specs of the equipment listed or better.

- (3) Sony PMW300K1 Three 1/2" Exmor CMOS XDCAM HD422 Memory Semi-Shoulder Handy Camcorder
- Sony SxS-1 Memory Cards 32GB (6)
- Sony SxS-1 Memory Cards 64GB (3)
- (3) Canon XF105 HD Professional Camcorder
- TriCaster 460 adapters, power supply, cables, monitoring
- Shure SCM410 4-Channel Automatic Mixer
- (3) 100 FT HD-SDI Cables
- Behringer EUROPORT EPA300
- (2) GOPRO HERO3+ Black Edition
- (3) iPad 2 16 GB Black
- (2) RCA 19" Class LED-LCD 720p 60Hz HDTV, (1.8" ultra-slim) LED19B30RQ
- (2) Atomos Ninja 2 Video Recorder
- (2) SanDisk Extreme II Internal SSD (480GB)
- (3) Pioneer BDR-XU03 6X Magnesium slim slot USB 3.0 BD/DVD/CD burner
- Microboards QD-BD-H7 Blu-ray Tower Duplicator
- WD 4TB My Book Thunderbolt Duo
- (9) Sony SBAC-US20 USB 3.0 SxS Memory Card Reader/Writer

Sony PMW300K1 Camera Specs

Built-in Optical Filters 1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

Effective Picture Elements 1920 (H) x 1080 (V)

Gain -3, 0, 3, 6, 9, 12, 18 dB, AGC

Horizontal Resolution 1,000 TV lines or more (1920 x 1080i mode)

Imaging Device 3-chip 1/2-inch type Exmor Full HD CMOS

Minimum Illumination 0.02 lx (typical) (1920 x 1080/59.94i mode, F1.9, +18 dB

gain, with 64-frame accumulation, Gamma on, 50% video level)

Optical System F1.6 prism system

S/N Ratio 60 dB (Y) (typical)

Sensitivity (2000 lx, 89.9% reflectance) F11 (typical) (1920 x 1080/59.94i mode)

Shutter Speed (Time) 1/32 sec to 1/2,000 sec

Slow & Quick Motion Function 720p : selectable from 1 fps to 60 fps as recording frame rate

1080p : selectable from 1 fps to 30 fps as recording frame rate

Slow Shutter 2, 3, 4, 5, 6, 7, 8, 16, 32, and 64-frame accumulation

White Balance Preset (3,200 K), Memory A, Memory B/ATW

General Specifications Detail:

Battery Operating Time Approx. 3.6 hrs with BP-U90 battery (while recording, with viewfinder, I/O Select Off)

Built-in Microphone Omni-directional stereo electret condenser microphone.

Dimensions (W x H x D) 10 7/8 x 9 1/2 x 15 1/8 inches (275 x 239 x 384 mm)

Mass body: 4 Lb 14 oz (2.2 kg)

Operating Temperature 32°F to 104°F (0°C to 40°C)

Power Consumption Approx. 20 W (while recording, with viewfinder, IO Select

Off)

Power Requirements DC 12 V

Recording Format [VIDEO]

XAVC (future option)

MPEG-2 Long GOP:

- HD 422 mode: CBR, 50 Mbps max., MPEG-2 422P@HL

- HQ mode: VBR, 35 Mbps max., MPEG-2 MP@HL

- SP mode: CBR, 25 Mbps, MPEG-2 MP@H-14

- SD mode : MPEG IMX, DVCAM

[AUDIO : UDF]

- HD 422 50 mode: LPCM 24 bits, 48 kHz, 4 channels
- HD 420 HQ mode: LPCM 16 bits, 48 kHz, 4 channels
- SD MPEG IMX mode: LPCM 16/24 bits, 48 kHz, 4 channels
- SD DVCAM mode: LPCM 16 bits, 48 kHz, 4 channels

[AUDIO : FAT]

- HD mode: LPCM 16 bits, 48 kHz, 4 channels
- SD DVCAM mode: LPCM 16 bits, 48 kHz, 2 channels

Recording Frame Rate [UDF]

HD 422 50 Mode: MPEG-2 422P@HL, 50 MBps/ CBR

- 1920 x 1080 / 59.94i, 50i, 29.97p, 25p, 23.98p
- 1280 x 720 / 59.94p, 50p, 29.97p, 25p, 23.98p

HD 420 HQ Mode: MPEG-2 MP@HL, 35 MBps/ VBR

- 1920 x 1080 / 59.94i, 50i, 29.97p, 25p, 23.98p (requires version Up)
- 1440 x 1080/59.94i, 50i, 29.97p, 25p, 23.98p,
- 1280 x 720 / 59.94p, 50p, 23.98p (2-3 pull down)

SD MPEG IMX Mode

- 720 x 480 / 59.94i, 29.97PsF
- 720 x 576 / 50i, 25PsF

[FAT]

HD 420 HQ Mode: MPEG-2 MP@HL, 35 Mbps/ VBR

- 1920 x 1080/ 59.94i, 50i, 29.97p, 25p, 23.98p
- 1440 x 1080/ 59.94i, 50i, 29.97p, 25p, 23.98p
- 1280 x 720/ 59.94p, 50p, 29.97p, 25p, 23.98p

HD SP 1440 Mode: MPEG-2 MP@H-14, 25 Mbps/ CBR

- 1440 x 1080/ 59.94i, 50i, 23.98p (2-3 pull down)

SD DVCAM Mode

- 720 x 480/ 59.94i, 29.97PsF
- 720 x 576/ 50i, 25PsF

Recording/Playback Time

[UDF]

HD 422 50 / SD MPEG IMX Mode:

- Approx. 120 min with SBS-64G1A (64 GB) memory card
- Approx. 60 min with SBP-32/ SBS-32G1A (32 GB) memory card
- Approx. 30 min with SBP-16 (16 GB) memory card

HD 420 HQ Mode:

- Approx. 180 min with SBS-64G1A (64 GB) memory card
- Approx. 90 min with SBP-32/SBS-32G1A (32 GB) memory card
- Approx. 45 min with SBP-16 (16 GB) memory card

SD DVCAM Mode:

- Approx. 220 min with SBS-64G1A (64 GB) memory card
- Approx. 110 min with SBP-32/ SBS-32G1A (32 GB) memory card
- Approx. 55 min with SBP-16 (16 GB) memory card

[FAT]

HD HQ Mode:

- Approx. 200 min with SBS-64G1A (64 GB) memory card
- Approx. 100 min with SBP-32/ SBS-32G1A (32 GB) memory card
- Approx. 50 min with SBP-16 (16 GB) memory card

HD SP Mode:

- Approx. 280 min with SBS-64G1A (64 GB) memory card
- Approx. 140 min with SBP-32/ SBS-32G1A (32 GB) memory card
- Approx. 70 min with SBP-16 (16 GB) memory card

SD DVCAM Mode:

- Approx. 260 min with SBS-64G1A (64 GB) memory card

- Approx. 130 min with SBP-32/SBS-32G1A (32 GB) memory card
- Approx. 65 min with SBP-16 (16 GB) memory card

Storage Temperature -4°F to +140°F (-20°C to +60°C)

Inputs/Outputs Specifications Detail:

Audio Input XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable

Composite Output VIDEO OUT: BNC type

DC Input DC jack

Genlock Input BNC (x1) (switchable to Video out), 1.0 Vp-p, 75Ω

HDMI Output A-type (x1)

Headphone Output Stereo mini-jack (x1)

Lens Remote 8-pin, round

Remote 8-pin

SDI Output BNC (x2), HD-SDI/SD-SDI selectable

Speaker Output Monaural

Timecode Input BNC (x1) (switchable to TC out) (SMPTE 12M-2-2008 standard,

0.5V-1.8Vp-p, $10k\Omega$)

Timecode Output BNC (x1) (switchable to TC in) (SMPTE 12M-2-2008 standard,

1.0Vp-p, $10k\Omega$)

USB USB 2.0 (device), mini-B type (x1) USB Host, Type A (x1)

Video Output BNC x1, (switchable to Genlock In), HD-Y / Composite switchable,

1.0 Vp-p, 75Ω

i.LINK IEEE-1394, 4-pin, (x1), HDV (HDV 1080i) / DV input/output, S400

Lens Specifications Detail:

Filter Diameter M77 mm, pitch 0.75mm

Focal Length 5.8-81.2mm (35mm Equiv: f=31.4mm-439mm)

Iris F1.9-F16 and Close

Lens Mount 1/2-type EX mount

Zoom Ratio Optical 14x
Media Specifications Detail:
Type ExpressCard/34 slot x 2

Monitoring Specifications Detail:

Built-in LCD Monitor 3.5-inch type color LCD monitor: 960 (H) x 3(RGB) x 540

(V), Quarter HD Size

Cannon XF105 Camera Specs

mage Device 1/3" CMOS Sensor

2.37MP (2.07MP effective) Lens 10x HD Zoom

4.25-42.5mm (30.4-304mm, 35mm equivalent)

f/1.8-2.8

58mm Filter Diameter

Horizontal Resolution 900 TV lines or more

Focusing System TVAF plus External Phase Difference Metering Sensor

Autofocus (Instant AF, Medium AF, Normal AF, Face AF, Face Only AF), Manual, Full

Manual

Minimum Illumination 4.5 lux (full AUTO mode, 1/60 shutter speed, +24dB gain)

1.6 lux (Manual mode, 1/4 shutter speed, +33dB gain)

Built-in Filters Neutral Density (Auto or Off)

Minimum Focus Distance 20mm (wide macro), 60cm (entire zoom range)

Video Recording System Compression: MPEG-2 Long GOP

Color Space: 4:2:2 (at 50Mbps recording)

File Format: MXF

Recording Modes:

50Mbps (CBR) 4:2:2, 1920x1080, (60i/30p/24p),

1280x720 (60p/30p/24p)

35Mbps (VBR) 4:2:0, 1920x1080 (60i/30p/24p),

1280x720 (60p/30p/24p)

25Mbps (CBR) 4:2:0, 1440x1080 (60i/30p/24p)

Audio Recording Format 2-Channel, PCM digital recording, 16-Bit; 48kHz

Frame Rates 60i, 60p (720p mode only), 30p, 24p 1

Image Stabilization SuperRange Optical (Lens Shift) 4 modes: Standard,

Powered, Dynamic, Off

LCD Monitor 3.5" Color, approx. 920,000 dots
Viewfinder 0.24" Color, approx. 260,000 dots
Microphone Stereo electret condenser microphone
Memory Card Slot CF Card: 2 Slots (movie files only)

SD Card: Still images, Custom Picture Data, Clip Metadata, Custom Settings

Shutter Speed Max 1/2000

White Balance Auto, Manual, Custom (2000K - 15000K in 100K increments),

Daylight, Tungsten

Gain Selection Not specified by manufacturer

Maximum Recording Time 64GB Compact Flash (CF) card

(Greater capacity is possible when two cards are used.)

25Mbps: 310 minutes 35Mbps: 225 minutes 50Mbps: 160 minutes

Input and Output Connectors HD/SD-SDI: BNC (x1 Output)

Component (x1 Output)

Composite: 3.5mm A/V (x1 Output), BNC (x1 Output)

HDMI: Standard Type A (x1 Output)
Mic/Line: XLR 3-pin (x2 Input)

USB: Mini-B USB 2.0 Headphone: 3.5mm Mini Genlock: BNC (x1 Input)

Timecode: BNC (x1 Input, x1 Output)

Remote Control Terminal: LANC

Power Requirements 7.4VDC (Battery Pack)

Power Consumption Not specified by manufacturer

Operating Temperature 32-104°F (0-40°C), 85% relative humidity Dimensions (WxHxD) 4.8 x 5.8 x 9.8" (12.1 x 14.8 x 25 cm)

Weight 2.4 lbs (1.08kg) - not including battery, memory card, lens hood, mic

holder

Tricaster 460

Connection Diagram click for a larger view

Switcher Channels 15 – 6 external, 5 internal, 4 M/E buses

Video Input 4 simultaneous live video sources, in any combination of supported connection types, resolutions and frame rates (including PsF selections)

Direct input of cameras and video devices in any combination of HD-SDI, HD

Component, SD-SDI, SD Component, Y/C or Composite connections

Per-input format configuration, scaler (including 3:2 intelligent pull-down) and frame synchronizer enabling intermixing of formats

Per-input color correction, crop and LiveMatte keyer controls

Support for Key + Fill input pairing

Network Sources 2 live inputs via Gigabit connection, selectable from any available network sources with support for video, audio and alpha channel

Supported sources include networked computers via included NewTek iVGA client application; wireless Apple® AirPlay® devices; TriCaster 8000, 860, 460 or 410; 3Play 4800, 820 or 425; USB video sources; video over IP sources; RTMP or RTSP streams; HTTP streaming video sources; and a variety of third-party partner solutions

Robotic Camera Support Access up to 4 live Pan-Tilt-Zoom (PTZ) robotic cameras via standard serial and network protocols, with preset system and user interface control over camera orientation, zoom, focus and iris

Media 4 integrated digital media sources for video, graphics and sounds (2 DDRs, GFX and Sound) + 15 buffers

Buffers 15 content buffers to store and playback video, animations, still images and graphics 5 animation buffers and 10 still & title buffers, with multiviewer, animation preview, title editing and presets Shareable across a network for watch folder application, with real-time edit and update of content

Mix/Effect Buses (M/E) 4 freely configurable M/E channels for video mixing, compositing, effects and virtual sets, each with independent Key layer and support for TransWarp effects

Mix mode: Enables secondary switcher operation for output, submix or recording, with Program/Preview workflow and transitions

Effects mode: Enables multi-layer compositing, effects generation and virtual set application, with per-source 3D DVE, scaling, cropping and keying

Macros. Record configurations and operation sequences, then attach to keyboard shortcuts, control surface actions, MIDI controllers, or on-screen hotspots for recall and automation

Macro editor for modifying user-defined macro configurations and sequences Augment and extend TriCaster operation using macro plug-ins to control external devices

DSKs 2 primary DSK channels, plus 1 additional Key layer per M/E bus, each with independent transition controls, 3D DVE, scaling, cropping and integrated TransWarp effects

Effects and Transitions Integrated TransWarp effects engine on all effects channels supports standard transitions, customizable animation store transitions with audio, and overlay effects

Animation Store Creator for custom animations

Supports per-pixel alpha blending between sources and real-time 3D warping of video or graphics

Virtual Sets 30+ HD live virtual sets, with presets, multiple camera angles, real-time reflections, and specular highlights

Live pan and zoom of virtual camera and customizable virtual camera presets with animated pan, zoom and pedestal moves

Support for up to 2 switchable live sources, with per-source 3D DVE, scaling, cropping and keying

Supports custom-created virtual sets generated using NewTek Virtual Set Editor or third-party partner solutions

Holographic Live Virtual Sets Support for custom virtual environments generated from panoramic smartphone, camera or DSLR images

Select sets included; custom sets require Virtual Set Editor 2.5

Hotspots Up to 8 freely configurable, interactive hotspots per input for macro control Video Output Configurable for up to 9 output connections, with support for key output and per-connection signal settings

2 x SDI

2 x Analog (configurable for Component or Y/C + Composite) HDMI output Network output for live streaming A/V output to network-connected TriCaster over local network

Recording Multi-track, multi-format recording of up to 4 simultaneous channels via IsoCorder™ technology

Native recording in up to 1080p with timecode

Encoding format selectable from: QuickTime® (XDCAM HD compatible, 4:2:2 encoding, 24-bit audio), MPEG-2 (high or normal profile), AVI (SpeedHQ), and H.264 (high or Web quality)

Freely choose to add recordings to Publish queue and DDR destinations

Grab Grab full resolution, de-fielded still images from inputs and outputs, and freely choose to add grabs to Publish queue, Media Player presets and Buffer destinations

Media Publishing Supports direct content upload to YouTube™, Facebook, Twitter™,

FTP, local or external volumes, and network servers

Live Streaming HD live streaming with simultaneous archive Presets in up to 720p, supporting most common streaming profiles and custom multibitrate streaming profiles, including RTMP streaming using H.264 (ex. Adobe® Flash® Media Server), Microsoft® Windows Media® Push/Pull, and browser-based streaming applications, with Ustream® and Livestream® native integrated support Streaming Profile Manager with integrated Web browser

Audio Inputs 4 SDI Embedded 3 x 2 Balanced 1/4" (Mic/Line) 1 x 2 Balanced XLR (Mic/Line) Phantom Power Support

Audio Outputs 2 SDI Embedded

1 x 2 Balanced XLR

1 x 2 Balanced 1/4" (AUX)

1 Stereo 1/4" (phones)

Audio Mixing Integrated multi-channel audio mixer for internal and external audio sources, outputs, stream and headphones, with 4 fully independent stereo output mixes: 2 Master, 2 AUX

Pan control, solo auditioning, seven-band equalizer and stereo compressor/limiter per input and output, with per-input audio delay control

Multi-bus routing of audio source channels to any combination of outputs, with independent level control over channels 1/2 and 3/4 for quad sources Audio Follow Video system enabling audio to follow multiple video sources, with support for unlimited audio grouping combinations

Digital audio inputs equipped with audio time-base synchronizers

Supports companion iPad® audio mixing app and Avid® Artist Mix audio control surface

Supported Session Formats

NTSC model: 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i Multi-Standard model: NTSC 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i; NTSC-J 1080/30p, 1080/24p, 1080/60i, 720/60p, 720/30p, 720/24p, 480/60i; PAL 1080/25p, 1080/24p, 1080/50i, 720/50p, 720/25p, 720/24p, 576/25i

Playback Media Formats AVI, DV, DVCPro, DVCProHD, FLV, F4V, H.263, H.264, MOV, MKV, MJPEG, MPEG (1, 2, all profiles, program or transport streams), MP4, WMV, WebM, PSD, PNG, TGA, BMP, JPEG, EXR, RAW, TIF, AIFF, MP3, WAV, and more, with Import Media application for batch import with optional transcoding of files (including Apple ProRes)

Export Media Formats Export media application for batch copying with optional transcoding of files to compatible formats for different applications and devices: Apple ProRes, AVI, DV, DVCPro, DVD, H.264, MOV, MPEG-2, MJPEG, MP4, WebM and more Post Production

NewTek SpeedEDIT 2 non-linear editor available via download for Add-On installation NewTek SpeedHQ codecs for Mac and PC included for extended file compatibility

Monitoring DVI and HDMI monitor outputs for user interface and multiview displays

Preview all sources or select sources in a variety of layouts and dual-monitor display combinations via Workspaces control panel A/V indicator and guide overlays configurable per viewport

Signal Monitoring Integrated Waveform and Vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 601 and 709
Session Management Setup and store session settings in reusable template sessions Latency

Ultra-low, between 1 and 2 frames

Processing Video: 4:4:4:4, 32-bit Floating Point Audio: 4 channels, 96 kHz, 32-bit Floating Point

A/V Standards HD-SDI video conforms to SMPTE 292M

SD video conforms to SMPTE 259M and ITU-R BT.656

Analog audio levels conform to SMPTE RP-155

Control Surface Optional TriCaster 460 hardware control surface

Surface ~ 23.5 x 0.5 x 11.6 in (59.7 x 1.3 x 29.5 cm) Base ~ 22.5 x 2.0 x 10.8 in (57.2 x 5.1 x 27.4 cm) 14.6 lbs (6.6 kg) MIDI Control Support for standard MIDI protocol enabling third-party MIDI device control of TriCaster operations via macros

System Physical 2U Rack Mount, with 430W power supply and multi-tiered hardware and software fail-safe

19.0 x 3.5 x 21.5 in (48.3 x 8.9 x 54.6 cm) 26 lbs (11.8 kg)

EUROPORT EPA300

Ultra-Compact 300-Watt 6-Channel Portable PA System with Digital Effects and FBQ Feedback Detection

Ultra-compact 300-Watt, 6-channel portable PA system

Enormous power, incredible sonic performance, and super-light weight means no more lugging around dead weight

Extremely powerful 8" woofers and 1.35" aluminum-diaphragm compression drivers for incredible sound reproduction

Studio-grade 24-bit stereo FX processor with 100 awesome presets including reverb, chorus, flanger, delay, pitch shifter and various multi-effects

Revolutionary FBQ Feedback Detection system instantly reveals critical frequencies for easy feedback removal

6-channel mixer section features 2 mono and 2 stereo channels plus separate CD inputs 2 high-quality mic preamps with switchable +48 V phantom power for condenser microphones

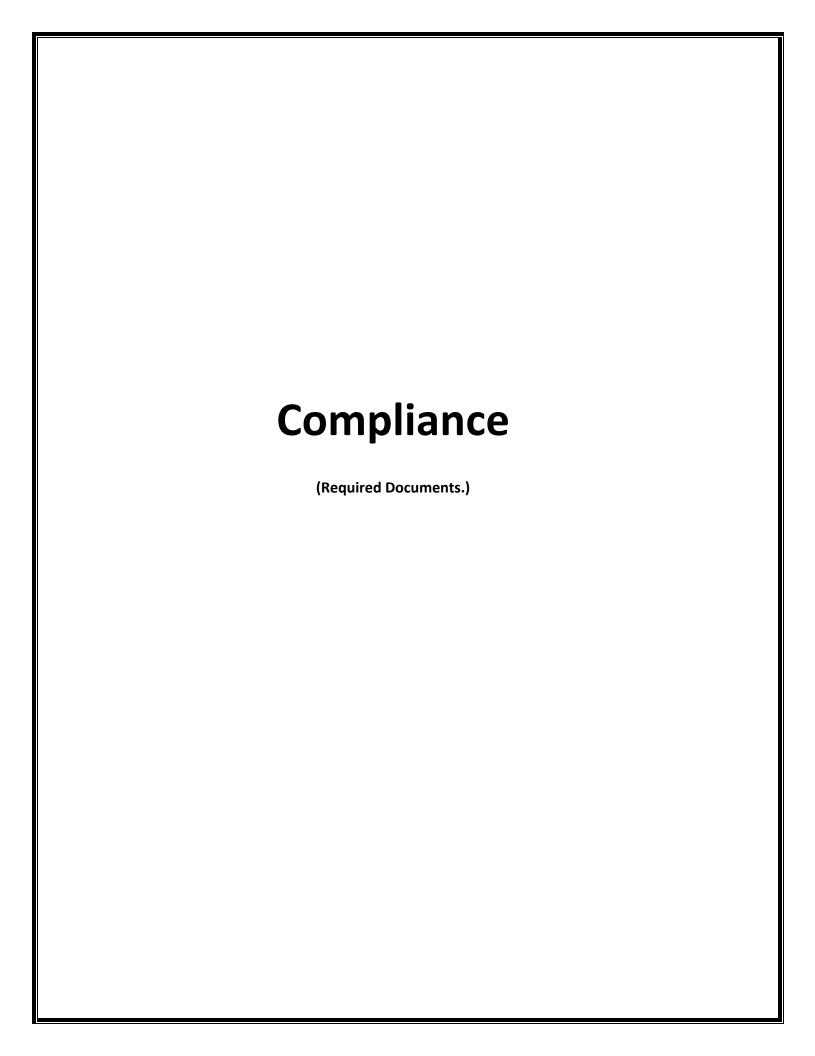
Effective, extremely musical 2-band EQ, switchable Pad and Clip LEDs on all mono channels

Stereo 5-band graphic EQ allows precise frequency correction of main outputs Voice Canceller function removes singer's voice from recordings for Karaoke applications

Comes with one BEHRINGER XM1800S microphone, mic clip and 20' cables Integrated storage compartment for microphone, cables, and accessories.

"Planet Earth" switching power supply for maximum flexibility (100 - 240 V^{\sim}), noise-free audio, superior transient response plus low power consumption for energy savings High-quality components and exceptionally rugged construction ensure long life

Schematics for all government spaces, the studio/control room and the video playback system must be provided to Maria Sheehan, Executive Director before final payment will be made.



Compliance

The compliance documents in this section must be completed, signed and returned <u>with your bid package</u>.

Purchasing Department

City of Waltham 610 Main Street Waltham, MA 02452

Failure to submit the completed documents will cause the disqualification of the proposal.

Section Index

Cl	neck when Complete
Non-collusion form and Tax Compliance form	
Corporation Identification Form	
Certificate of Vote Authorization	
CORI background Check	
Certificate of Insurance (showing all limits of WC &GL)	
Three (3) References	
5%) Bid Bond or Certified Check	
Debarment Certificate	
Prevailing Wage Certificate	
Right-to-know Law	
 OSHA 10 Certificate for all Assigned Employees (MGL ch30, §39M and Ch 	149)
 Before the commencement of the Job, the contractor must provide to the Performance Bond for 100% of the contract value and naming the Ci (letter must be included with your response) 	
Your Company's Name:	
Service or Product Bid	
NOTE: Failure to submit any of the required documents, in this or in of	ther sections, with your bid
response package may cause the disqualification of your propo	sal.

NON-COLLUSION FORM AND TAX COMPLIANCE FORM

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under per submitted in good faith and without certification, the word "person" sha committee, club, or other organizat representations made by any City of Purchasing Agent of the City of Walt	collusion or fraud with any other I mean any natural person, busing on, entity or group of individuals. ficials, employees, entity, or group	person. As used in ess, partnership, co The undersigned of p of individuals oth	n this orporation, union, certifies that no
	(Signature of person signing bid o	or proposal)	Date
	(Name of business)		
	X COMPLIANCE CERTIFICATION	<u>ON</u>	
Pursuant to M.G.L. c. 62C, & 49A,I c knowledge and belief, I am in comp of employees and contractors, and	iance with all laws of the Commo	nwealth relating to	•
Signature of person submitting bid of	r proposal Date		
Name of business			

NOTE

Failure to submit any of the required documents, in this or in other sections, with your bid response package may cause the disqualification of your proposal.

CERTIFICATE OF VOTE OF AUTHORIZATION

Date:	
I, Clerk of	hereby certify
that at a meeting of the Board of Directors of said Corporation duly held	
ofat which time a quorum was present and voting	throughout, the
following vote was duly passed and is now in full force and effect:	
VOTED: That	at, execute, n; the execution oses, and that an altered,
I further certify that is duly elected/appointed	
of said corporation	
SIGNED:	
(Corporate Seal)	
Clerk of the Corporation:	
Print Name:	
COMMONWEALTH OF MASSACHUSETTS	
County of Date:	
Then personally appeared the above named and acknowledged the foregoing be their free act and deed before me,	
Then personally appeared the above named and acknowledged the foregoing	

CORPORATION IDENTIFICATION

The bidder for the information of the Awarding Authority furnishes the following information.

Business Address	(PC	OST OFFICE BOX NUMBER NOT A	ACCEPTABLE)
Title			
Signature 			
Name of Bidder By			
Date			
		under a firm's name:	
If an Individual:			
I <u>f a Partnership:</u> (Na	me all partı	ners)	
award.			
Corporation is regist	ered, and f	urnish said certificate to the Aw	arding Authority prior to the
Secretary of State, F	oreign Corp	o. Section, State House, Boston,	a certificate stating that you
		you are required under M.G.L.	ch. 30S, 39L to obtain from the
Yes , No			
		ration – Are you registered to do	
Incorporated II	n what state	e	
Incorporated in	a what state	•	

CORI CHECK VERIFICATION

NOTICE TO ALL CONTRACTORS

ALL CONTRACTORS AWARDED A CONTRACT MUST PROVIDE THE WALTHAM PURCHASING DEPARTMENT WRITTEN CONFIRMATION OF ITS FULL COMPLIANCE WITH M.G.L. CHAPTER 71, SECTION 38R, WHICH REQUIRES CORI CHECKS FOR ALL SCHOOL EMPLOYEES AND VOLUNTEERS, AS WELL AS ANY AND ALL CONTRACTORS OF ANY KIND, OR LABORERS WHO PERFORM WORK ON SCHOOL GROUNDS, AND WHO MAY HAVE DIRECT AND UNMONITORED CONTACT WITH CHILDREN PLEASE SIGN BELOW TO INDICATE THAT THE ABOVE MASSACHUSETTS GENERAL LAW HAS BEEN ADDRESSED BY YOUR COMPANY.

PROVIDE THREE (3) SERVICE APPROPRIATE REFERENCES

	Address:
	Contact Name:
	Phone #
	Type of service/product provided to this Company:
	Dollar value of service provided to this Company:
2.	Company Name:
	Address:
	Contact Name:
	Phone #
	Type of service/product provided to this Company:
	Dollar value of service provided to this Company:
3.	Company Name:
	Address:
	Contact Name:
	Phone #
	Type of service/product provided to this Company:
	Dollar value of service provided to this Company:

NOTE

1. Company Name:

Failure to submit any of the required documents, in this or in other sections, with your bid response package will be cause for the disqualification of your company.

WEEKLY PAYROLL RECORDS REPORT & STATEMENT OF COMPLIANCE

In accordance with Massachusetts General Law c. 149, §27B, a true and accurate record must be kept of all persons employed on the public works project for which the enclosed rates have been provided, A Payroll Form has been printed on the reverse of this page and includes all the information required to be kept by law. Every contractor or subcontractor is required to keep these records and preserve them for a period of three years from the date of completion of the contract.

In addition, every contractor and subcontractor is required to submit, on a weekly basis, a copy of his or her weekly payroll records to the awarding authority. For every week in which an apprentice is employed, a photocopy of the apprentice's identification card must be attached to the payroll report. Once collected, the awarding authority is also required to preserve those reports for three years.

In addition, each such contractor, subcontractor, or public body shall furnish to the awarding authority directly, within fifteen days after completion of its portion of the work, a statement, executed by the contractor, subcontractor or public body who supervises the payment of wages, in the following form:

STATEMEN	NT OF COMPLIANCE
	, 200
<u> </u>	
(Name of signatory party)	(Title)
I do hereby state that I pay or supervise t	he payment of the persons employed by
	on the
(Contractor, subcontractor or public body)	(Building or project)
project have been paid in accordance wit	teamsters, chauffeurs and laborers employed on said the wages determined under the provisions of sections one hundred and forty nine of the General Laws.
Signature	, Title
Print	

WEEKLY PAYROLL REPORT FORM

Company Name:			1			<u>ئے</u>	Prime Contractor	ntracto	L						
Project Name:			1			≅ _	abcontr ist Prir	actor ne Con	Subcontractor List Prime Contractor:						
Work Week Ending:			1			ш	Employer Signature:	r Signa	ture:				1		
Final Report	빔		1			ш	Print Name & Title:	me &	Litle:						
Employee Name &	Work Classification			H.	Hours Worked	rked			(E)	(B) Hourly	Employ	Employer Contributions	utions	(F) [B+C+D+E] Hourly	(G) [A*F] Weekly
Address		S	Z	F	≱.	H	CL.	S	Tot. Hrs.	Base	(C) Health & Welfare	(D) Pension	(E) Supp. Unemp.	Total Wage (prev. wage)	Total
-															
ie.															

NOTE: Every contractor and subcontractor is required to submit a copy of their weekly payroll records to the awarding authority.

RIGHT TO KNOW LAW

Any vendor who receives an order or orders resulting from this invitation agrees to submit a Material Safety Data Sheet (MSDS) for each toxic or hazardous substance or mixture containing such substance, pursuant to M.G.L. c. 111F, §§8,9 and 10 and the regulations contained in 441 CMR 21.06 when deliveries are made. The vendor agrees to deliver all containers properly labeled pursuant to M.G.L. c. 111F §7 and regulations contained in 441 CMR 21.05. Failure to furnish MSDS and/or labels on each container may result in civil or criminal penalties, including bid debarment and action to prevent the vendor from selling said substances, or mixtures containing said substances within the Commonwealth. All vendors furnishing substances or mixtures subject to Chapter 111F or M.G.L. are cautioned to obtain and read the laws, rules and regulations referenced above. Copies may be obtained from the State House Bookstore, Secretary of State, State House, Room 117, Boston, MA (617) 727-2834.

Authorized Signature Indicating Compliance wit	h the Right-to-know laws:
Signature	Date
Print Name	
NOTE Failure to submit any of the required document.	s. in this or in other sections, with your bid

response package may cause the disqualification of your proposal.

DEBARMENT CERTIFICATION

In connection with this bid and all procurement transactions, by signature thereon, the respondent certifies that neither the company nor its principals are suspended, debarred, proposed for debarment, declared ineligible, or voluntarily excluded from the award of contracts, procurement or non procurement programs from the Commonwealth of Massachusetts, the US Federal Government and /or the City of Waltham. "Principals" means officers, directors, owners, partners and persons having primary interest, management or supervisory responsibilities with the business entity. Vendors shall provide immediate written notification to the Purchasing Agent of the City of Waltham at any time during the period of the contract of prior to the contract award if the vendor learns of any changed condition with regards to the debarment of the company or its officers. This certification is a material representation of fact upon which reliance will be placed when making the business award. If at any time it is determined that the vendor knowingly misrepresented this certification, in addition to other legal remedies available to the city of Waltham, the contract will be cancelled and the award revoked.

Company Name			
Address			
City	, State	, Zip Code	
Phone Number ()			
E-Mail Address			
Signed by Authorized (Company Representative:		
Print name			
Date			

10 HOURS OSHA TRAINING CONFIRMATION

Chapter 306 of the Acts of 2004 CONSTRUCTION PROJECTS AN ACT RELATIVE TO THE HEALTH AND SAFETY ON PUBLIC

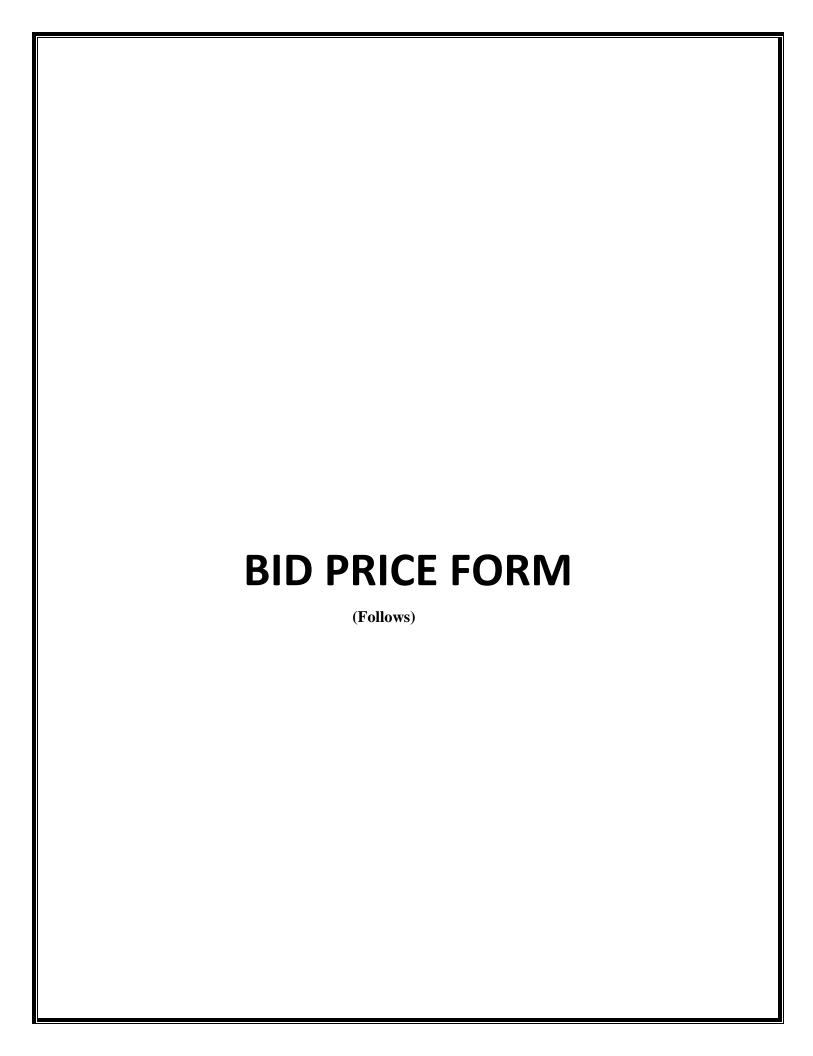
The undersigned hereby certifies that all employees to be employed at a worksite for construction, reconstruction, alteration, remodeling, repair, installation, demolition, maintenance or repair of any public work or any public building estimated to cost more than \$10,000.00 have successfully completed a course in construction safety and health approved by the **United States Occupational Safety and Health Administration** that is at least **10 hours** in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first payroll report for each employee and will comply with all laws and regulations applicable to awards of subcontracts subject to section 44F.

Company Name:		
Address:		
Signature:		
Title:		
Print Name:		
Date:	_	

NOTE

See Chapter 306 of the Acts of 2004

Failure to submit any of the required documents, in this or in other sections, with your bid response package will be cause for the disqualification of your company.



Price Form.

The price quoted below shall be inclusive of all expenses such as overhead and profit, travel expenses, administrative support cost, mobilization to and from the project, and all other expenses. The price quoted below is affixed, not to exceed price AND INCLUSIVE OF UNLIMITED TRAINING, AS REQUESTED.

COST OF EQUIPMENT:	\$
COST OF MATERIALS:	\$
COST OF INSTALLATION & ENGINEERING:	\$
GRAND TOTAL:	\$
NAME OF YOUR COMPANY:	
AUTHORIZED SIGNATURE:	
PRINT NAME:	
TITLE:	
DATE:	