



REQUEST FOR PROPOSAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD West Bloomfield Township Town Hall Board Room Technical Upgrade Project

Addenda 2:

Issued 2/17/17

NOTE ADDENDA 2: Please provide and install Middle Atlantic Rack Model 3rk-4428-lrd in new 1st floor operations room. Please install appropriate connectors and plates in floor boxes. Floor boxes to be installed by others. See the new schedule A and the updated floor plan for locations of all services.

Replace or extend all microphone, network, and power cables related to the camera and audio systems in room 75-76 to the new rack location on the 1st floor.

Camera Systems

Please provide the following camera systems. Cameras are to be preeminently mounted to the ceiling structure in the Board Room. Include all mounting and cabling needed. Provide recommended locations for the cameras based on the new configuration of the Board Room.

UPDATE: Legacy camera systems and mounting have been removed

You will be responsible for the removal of the legacy camera systems. Legacy mounting systems may be used however some may need to be relocated. If legacy systems are removed or relocated former camera positions should be returned to their original condition.

Cameras video should be connected directly to Blackmagic VideoHub. Camera control to legacy router in 2nd Floor Civic Center TV Operations room. This router is an extension of the Green Media Center network and part of the same class 3 network.

UPDATE: Operations room is now on the first floor. Note all future references to 2nd Floor Operations room should be moved to 1st floor operations room.

4 video cameras

Panasonic AW-HE130 or other

Key product features:

3 CCD or 3 CMOS

Full 1920x1080 HD
20x Optical Zoon
HD-SDI Output
IP control via Ethernet/ RJ45 connector for full camera control and PTZ.

Common Power Supply for all PTZ cameras
Video Cables for cameras
Cat 6 RJ 45 cables for camera control

Remote Control Unit for PTZ Cameras
Panasonic AW-RP50 NE or other

Key product features:
IP Remote control for up to 100 cameras via IP
50 camera presets

Video Router

Blackmagic VideoHub 40x40 or other

All HD-SDI video signals in 2nd floor Civic Center TV Operations room come to this router. All monitors in the board room also come to the router. We will convert from HD-SDI to HDMI at the monitors.

This router to be mounted in the legacy rack in the Civic Center TV Operation room on the 1st floor at W.B. Town Hall. All cables to monitors and cameras to be replaced.

Blackmagic Smart Control router control panel

Key product features:
40 Inputs routing to any or all of 40 outputs (40x40)
SD-HD-SDI 3g SDI
Physical control panel

This control panel will remote control the router in the Civic Center Operations room. It will be mounted in the portable presentation station lectern.

Blackmagic Smart Control router control panel

Key product features:
40 Inputs routing to any or all of 40 outputs (40x40)
SD-HD-SDI 3g SDI
Physical control panel

This control panel will remote control the router in the Civic Center Operations room This control panel will be mounted in the master control area of the Green Media Center.

3 Dual LED Preview monitors

Blackmagic SmartView Duo or other

Key Product Features:

6 8"LED Preview monitors
SD-HD 3g SDI

This monitor rack to be mounted in the legacy rack in the Civic Center TV Operation room on the 1st floor at W.B. Town Hall

**Viper II Rack – Telecast or other
SD-HD video over fiber transmission system at GREEN MEDIA CENTER**
<http://www.telecast-fiber.com/TR6292/>

Upgrade our current legacy Viper II as described;

Remove (4) RX5122 cards. Return these cards to Civic Center TV
Remove (1) TX5122 card. Return this card to Civic Center TV
Add (2) TX6292-1570 (HD-SDI)
Add (2) RX6292 (HD-SDI)

**Viper II Rack – Telecast or other
SD-HD video over fiber transmission system in Civic Center Operations Room at W.B.
Town Hall 2nd Floor**
<http://www.telecast-fiber.com/TR6292/>

Upgrade our current legacy Viper II as described;

Remove (4) TX5122 cards. Return these cards to Civic Center TV
Remove (1) RX 5122 card. Return this card to Civic Center TV
Add (2) TX6292-1570 (HD-SDI)
Add (2) RX6292 (HD-SDI)
Retain the legacy cards. These will be used at GMC to support WB Town Hall

48 Channel Audio Servers

Provide 48 channel audio server that will provide a combination of input and output channels. This audio server should include unique features that maximize its performance in an environment with multiple open microphones will be present and speakers will be in close proximity. Each channel should be fully configurable with respect to input level and other accommodations. Audio server should be able to be remote controlled via a fully functional interface. Interface should be mixer-like allowing operation to adjust levels and other functions of each input and output. Remote control should be via IP. Audio server to be located in the Civic Center TV Operation room on the 1st floor at W.B. Town Hall

Audio server or ancillary device should also be able to control via IP remote the condition and features of the Gooseneck Microphones.

24 Gooseneck Condenser Microphones

Microphones should feature a long black gooseneck apparatus supporting a condenser microphone. The microphones should be able to be mounted to a flat surface or include a base. Microphones should include an LED in close proximity to the mic head that indicates if the microphone is active. The active state of the microphone should be locally controlled by the user and by a remote operator with override control to the remote operation. Remote operation should be via IP with control easy and practical.

All microphone positions to be wired to the audio server.

Audio Amplifiers

Provide 4 amplifiers for audio zones 1-4. These amplifiers will be connected to discrete outputs from the audio server. The amplifiers will service speakers in these zones.

Zone 1 – Main audience area Board Room

Zone 2 – Overflow audience are in lobby outside of Board Room

Zone 3 – Monitors at Dais

Zone 4 - TBD

Speakers

Provide speakers with effective directional capability to reduce feedback from microphones while providing effective coverage for the specific zones

NOTE: Zone 4 will be rooms 75 and 76.

New 80” monitor

Provide HD monitor and bracket to be mounted on wall behind and above the Dais as shown on drawings.

NOTE: Provide safety wire capable of supporting monitor. Safety wire should be rigged to monitor mount and affixed to two anchors in wall.

(2) New 60” monitors

Provide HD monitor and bracket to be mounted on side walls in board room and mounted in the lobby.

All monitors to be connected to the router on the first floor using HD-SDI cabling using HD-SDI to HDMI converters.

NOTE: No monitor will be installed in the lobby.

Update wiring to floor Monitors

Legacy floor monitors to be cabled in a similar fashion to all other monitors. 2 floor monitors to remain. Large monitor to be removed and used elsewhere.

Portable Presentation Station Lectern

Provide KSI Professional ELS-48 Lectern or similar. Include Computer, Monitor, and Keyboard with two gooseneck microphones. Provide a DAC 70 for use with the Computer. Rig a second DAC 70 with HDMI cable users can plug into a laptop. Provide HDMI-Lighting adaptor for iPhone – iPad users. Also include program monitor connected to router. In 19” rack space mount VideoHub Controller, a small network switch and accommodations for power.

The supporting cable structure should all be bound together and a patch panel should be installed in the floor structure to support the cable bundle. Required cables are;

- (3) HD-SDI (BNC)
- (2) Audio (XLR)
- (1) Ethernet
- (1) Power

Computers for Lectern and Staff Table and networking.

Provide 3 computers with keyboard and mouse for use at these locations. Computers should be a Dell Optiplex 5040 with 500GB HDD and 8GB Ram. This system should include 2 display ports and a HDMI port. Provide one monitor, keyboard, mouse, Microsoft Windows 10 operating system, and Microsoft office suite. Software should be Enterprise editions. For each computer provide a Datavideo DAC 70 which will be connected via HDMI. The DAC 70 will convert the signal to HD-SDI. Provide HD-SDI cable to 2nd Floor Civic Center Operations room for connection to the 40x40 router. Install Ethernet cables for Civic Center TV phone system at Staff desk and other network infrastructure needed to connect to the Civic Center operation room on the second floor.

TV Lighting

Provide appropriate color temperature lighting that will highlight the officials at the Dais, Staff Table, and Presentation Lectern.

Assisted Listening System

Provide Williams Sound or other assisted listening system. System to include a transmitter capable of providing coverage up to 1000', at least 8 receivers, and charging system for receivers. System transmitter will receive audio from 48 channel audio server so input to transmitter must be compatible with output from server.

This system to be installed in legacy rack in 2nd floor Civic Center TV Control Center. External antenna should be provided if required to provide coverage to Board Room, Lobby, and RM 75-76.

Audio transmission between Town Hall and Green Media Center

Currently audio from RM 75-76 is embedded into one of the HD-SDI TX signals in the Viper II rack from Town Hall and de-embedded at Green Media Center. Audio from Board Room is sent to Green Media Center via audio terminals on the legacy analog cards in the Viper II Racks. Plan on using existing infrastructure to maintain these audio paths without creating timing problems relative to video paths. This to be shown in the shop drawing that will be submitted prior to construction.

Timer

Provide and install a presentation timer system showing elapsed time. A primary display is to be placed so it is visible to all audience members. A second display should be placed on the center floor monitor stand or other location so all officials at the dais can observe it. The control for this timer should be located at the center position of the dais and allow for start, stop, and reset to zero.

Shop Drawings

Complete shop drawings will be required for all of the above.

Installation

Provide installation of all the above listed systems.

Schedule

The Board Room will be closed from Tuesday March 7th until Monday April 17th. Work must be completed during this time window. Schedule coordination with Network Infrastructure contractor and restoration contractor is a must.

Note: The Board Room is now closed

Work by others

The following will be completed by others;

All cable access paths

Relocation of fiber from 2nd floor to 1st floor

Relocation of equipment from 2nd floor to 1st floor

Support for mount of 80" TV

Power for 80" TV

Power for 60" TV

Power for tables and Lectern

Power for lights

NOTE: Include all new wiring for cameras and microphones in rooms 75-76.

