

**Milpitas City Hall - SOLE SOURCE LIST
NOT FOR ISSUE / NOT FOR CONSTRUCTION
REV4**

DESCRIPTION	MFR	MODEL	JUSTIFICATION
Rackmount computer HD-SDI output card	Aja	KONA Lhi	no known equal
Table Pocket, VGA/HDMI/USB/TEL/DATA	Altinex	Table Boxes	fit existing hole in tables
Production Video Switcher	Broadcast Pix	GR-1000	same as existing in community studio
Network Switch, Gigabit, AVB/Dante, Rackmount	Cisco	A/R	Requires "Dante/AVB" protocol
Conferencing Microphone	Clockaudio	C009E	no known equal with same pickup pattern and physical size.
Agile QAM RF Modulator	Contemporary Research	QMOD-SDI	no known equal. Competing products require several pieces to equal the same function of this unit.
Control System, Master	Crestron	PRO-3	Works with existing
Streaming Appliance	Digital Rapids	Touchstream Web HDI	same as existing
Central Control Unit- Discussion System at Dias	DIS	CU 6005	Has all required features and is best built, competing products do not.
Public Speaking Timer- Master Unit	DSAN	Limitimer PRO-2000	no known equal
Switcher/Scaler, Analog/HDMI to HDMI	Extron	DVS 605 A	No product with same input/output capability.
3-ch Audio Amplifier, 8-ohm stereo & 70V	Extron	XPA 2003C	No product with same input/output capability.
Table Pocket, Single XLR	FSR, Inc	T3-MJ	No product same size & connectivity.
70" Monitor: External Loudspeakers	Innovox	FL-V2	No product custom fit to any screen
10-circuit relay panel	Lyntec	PDS-10	No product with sequencing functionality
HDMI Transmitter/Receiver Combo	Magenta	HD-One DX	No product with transmitter that will fit in floor box
Automixer & DSP, base unit w/ Dante Card	Media Matrix	NION nE + Dante	No product with Dante/AVB audio-over-ethernet protocol capability
Equipment Rack Accessories	Middle Atlantic	A/R	match existing
DVI Matrix Switch, 6x6	Purelink AV	DX-6600 PRO	No product with all HDCP compliant ports
1x2 DVI DA	Purelink AV	DD-120	No product with all HDCP compliant ports
1x5 DVI Distribution Amplifier, HDCP	Purelink AV	DD-150	No product with all HDCP compliant ports
4x1 HDMI Switch, RS-232	Purelink AV	HDS-41R	No product with all HDCP compliant ports
Cross Format Matrix Switcher/Scaler, 16x16 Frame	RGB Spectrum	Linx 1800 Frame	No product with cross-format inputs (VGA/DVI) and scaling outputs (DVI), and HDCP compliance
Windowing Processor, Quad View w/ Video	RGB Spectrum	HDxv-4/0	No product with HDCP compliance
DVI over Fiber Tx/Rx	RGB Spectrum	XTendView FiberDVI	No product with HDCP compliance on single fiber
Master Infrared Transmitter/Emitter Panel, White & PSU	Sennheiser	SZI 1015T-W/NT	match existing
Portable Infrared Transmitter/Emitter Panel	Sennheiser	SP 230	match existing
70" Interactive LCD/LED Monitor	Sharp	PN-L702B	No product at this size
Wireless Microphone System, handheld & bodypack	Shure	ULXP124/85	match existing
4-circuit Power Conditioning Unit in NEMA box	SurgeX	PowerFrame 420	No product with this protection technology
Power Conditioner & Sequencer	SurgeX	SX1120RT	No product with this protection technology
Broadcast Production Monitor, 40" LCD, 3G	TV Logic	LVM-403W-3G	No product with broadcast-specific functionality this size
CG Production Monitor, 24" LCD, 3G	TV Logic	LVM-243W-3G	No product with broadcast-specific functionality this size
Replacement Parts for Production Console	Winsted	As Required to Match Existing	match existing
Digital Audio Mixer	Yamaha	01V96i	No product with Dante/AVB audio-over-ethernet protocol capability

ISSUE:	DATE:
50% DD	9/14/2011
100% DD	9/28/2011
50% CD	11/11/2011
100% CD	12/2/2011

MILPITAS CITY HALL

AV Systems Upgrade

	A	B	C	D	E
A	-	12"	12"	12"	12"
B	12"	--	6"	6"	6"
C	12"	6"	--	6"	6"
D	12"	6"	6"	-	6"
E	12"	6"	6"	6"	-

CONDUIT SEPARATION NOTES

- THE AV SPECIFIC CONDUIT SEPARATION TABLE ABOVE REFLECTS BEST-CASE SCENARIOS, AND SHOULD BE ADHERED TO WHEN POSSIBLE.
- ABSOLUTE MINIMUM SEPARATION FOR AV CONDUIT IS 4". IF ABOVE DISTANCES ARE NOT ACHIEVABLE.
- ABSOLUTE MINIMUM SEPARATION BETWEEN AV AND ELECTRICAL POWER CONDUITS IS 36"

EXCEPTIONS

- SHOULD ELECTRICAL CONDUIT NEED TO CROSS AV CONDUIT, DO SO AT 90-DEGREES.
- IF AV CONDUIT MINIMUM SEPARATION CANNOT BE MET (SUCH AS WHEN GOING THROUGH A NARROW CAVITY), CONDUIT MAY RUN IMMEDIATELY ADJACENT FOR NO MORE THAN 3'-0" IN ANY 50'-0" SPAN.

	AV CONDUIT
AC BRANCH LOAD	36"
AC-FEEDER	48"
AC-DIMMED LOAD	36"
TEL/DATA	12"
CONTROL (OTHER)	12"

	# SEATS	# RECEIVERS	TYPE
CHAMBERS	15 ^B	7	IR
COMMITTEE	28	2	IR

Capacity of Seating in Assembly Area	Minimum Number of Required Receivers	Minimum Number of Required Receivers Required to be Hearing-aid Compatible
50 or less	2	2
51 to 200	2, plus 1 per 25 seats over 50 seats ¹	2
201 to 500	2, plus 1 per 25 seats over 50 seats ¹	1 per 4 receivers ¹
501 to 1000	20, plus 1 per 33 seats over 500 seats ¹	1 per 4 receivers ¹
1001 to 2000	35, plus 1 per 50 seats over 1000 seats ¹	1 per 4 receivers ¹
2001 and over	55 plus 1 per 100 seats over 2000 seats ¹	1 per 4 receivers ¹

1. Or fraction thereof.

ASSISTED LISTENING CODE REFERENCES

- 219.2 Required Systems. In each assembly area where audible communication is integral to the use of the space, an assistive listening system shall be provided. EXCEPTION: Other than in courtrooms, assistive listening systems shall not be required where audio amplification is not provided.
- 219.3 Receivers. Receivers complying with 706.2 shall be provided for assistive listening systems in each assembly area in accordance with Table 219.3. Twenty-five percent minimum of receivers provided, but no fewer than two, shall be hearing-aid compatible in accordance with 706.3. EXCEPTIONS: 1. Where a building contains more than one assembly area and the assembly areas required to provide assistive listening systems are under one management, the total number of required receivers shall be permitted to be calculated according to the total number of seats in the assembly areas in the building provided that all receivers are usable with all systems. 2. Where all seats in an assembly area are served by an induction loop assistive listening system, the minimum number of receivers required by Table 219.3 to be hearing-aid compatible shall not be required to be provided.
- Advisory 706.1 General. Assistive listening systems are generally categorized by their mode of transmission. There are hard-wired systems and three types of wireless systems: induction loop, infrared, and FM radio transmission. Each has different advantages and disadvantages that can help determine which system is best for a given application. For example, an FM system may be better than an infrared system in some open-air assemblies since infrared signals are less effective in sunlight. On the other hand, an infrared system is typically a better choice than an FM system where confidential transmission is important because it will be contained within a given space.
- 703.7.2.4 Assistive Listening Systems. Assistive listening systems shall be identified by the International Symbol of Access for Hearing Loss complying with Figure 703.7.2.4. (signage by architect).