

Aviom

PRODUCT APPLICATIONS

PRO
16™

PRO
64™

SAMPLE SYSTEM DRAWINGS FOR:

Commercial AV

Houses of Worship

Broadcast

Live Sound

Studios

AVIOM®

U.S. MANUFACTURERS' REPS

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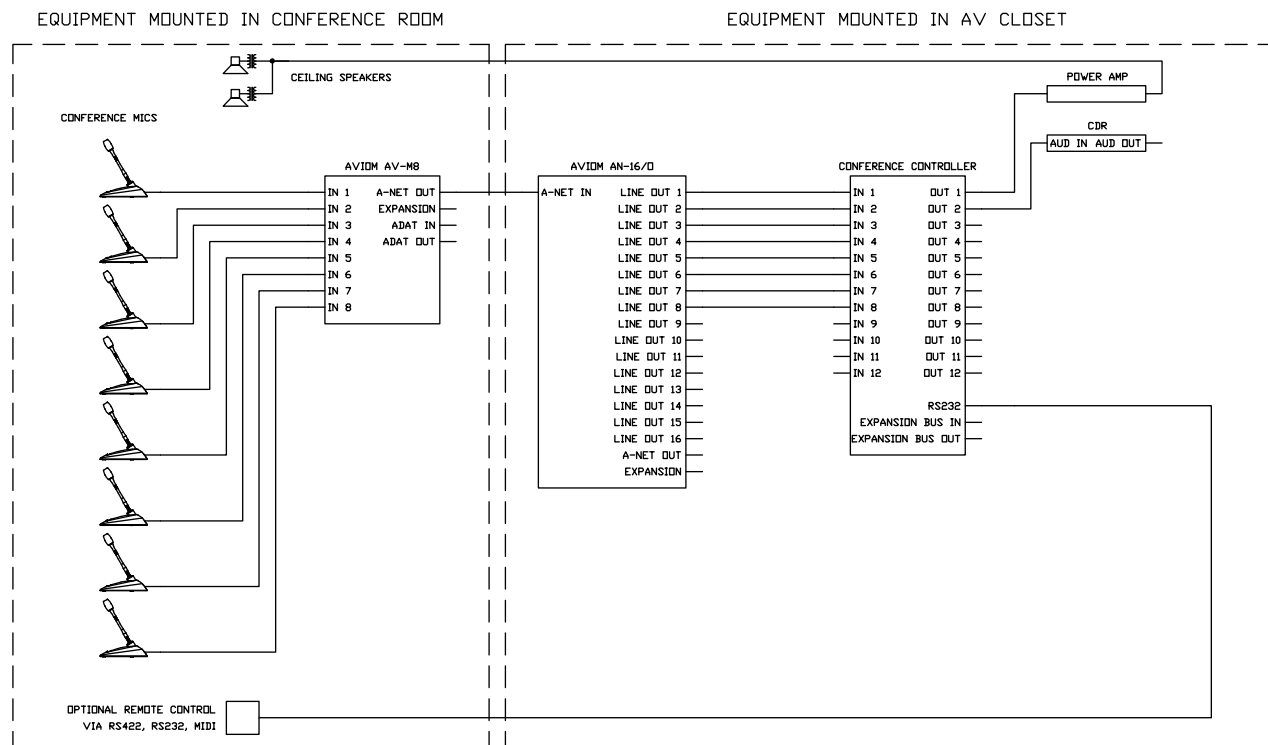
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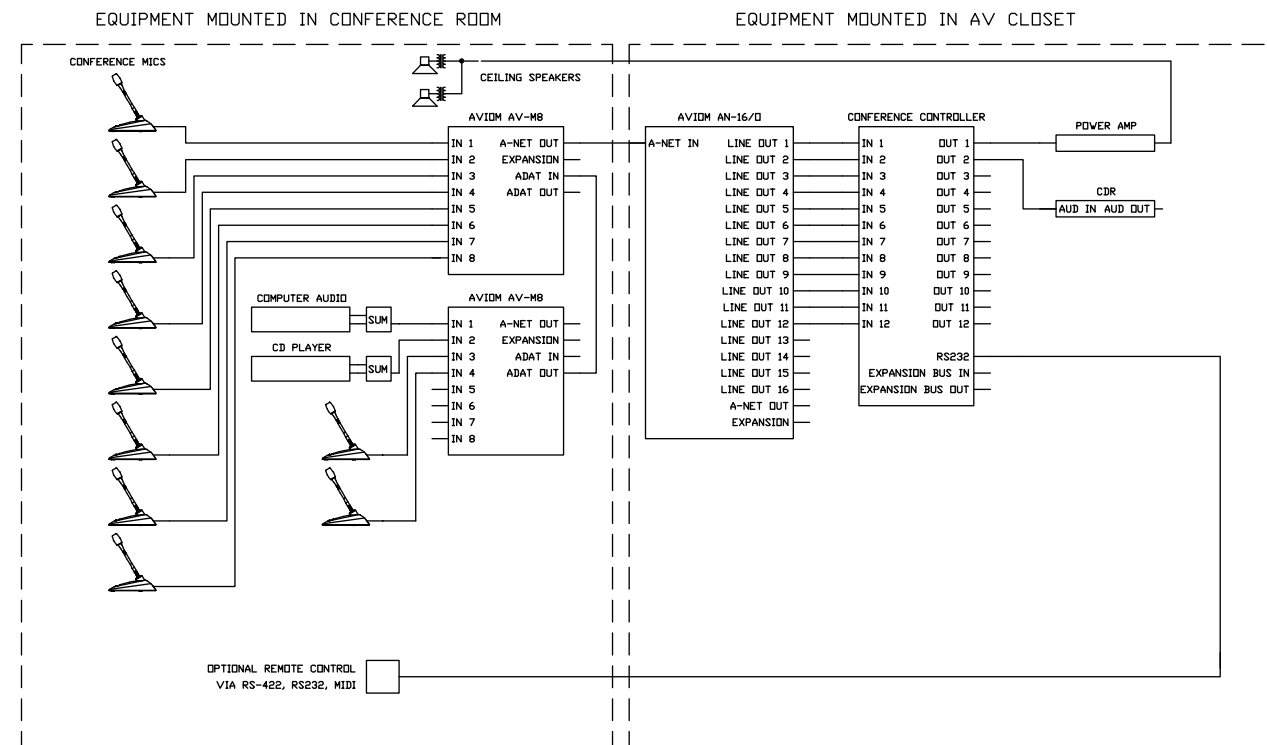
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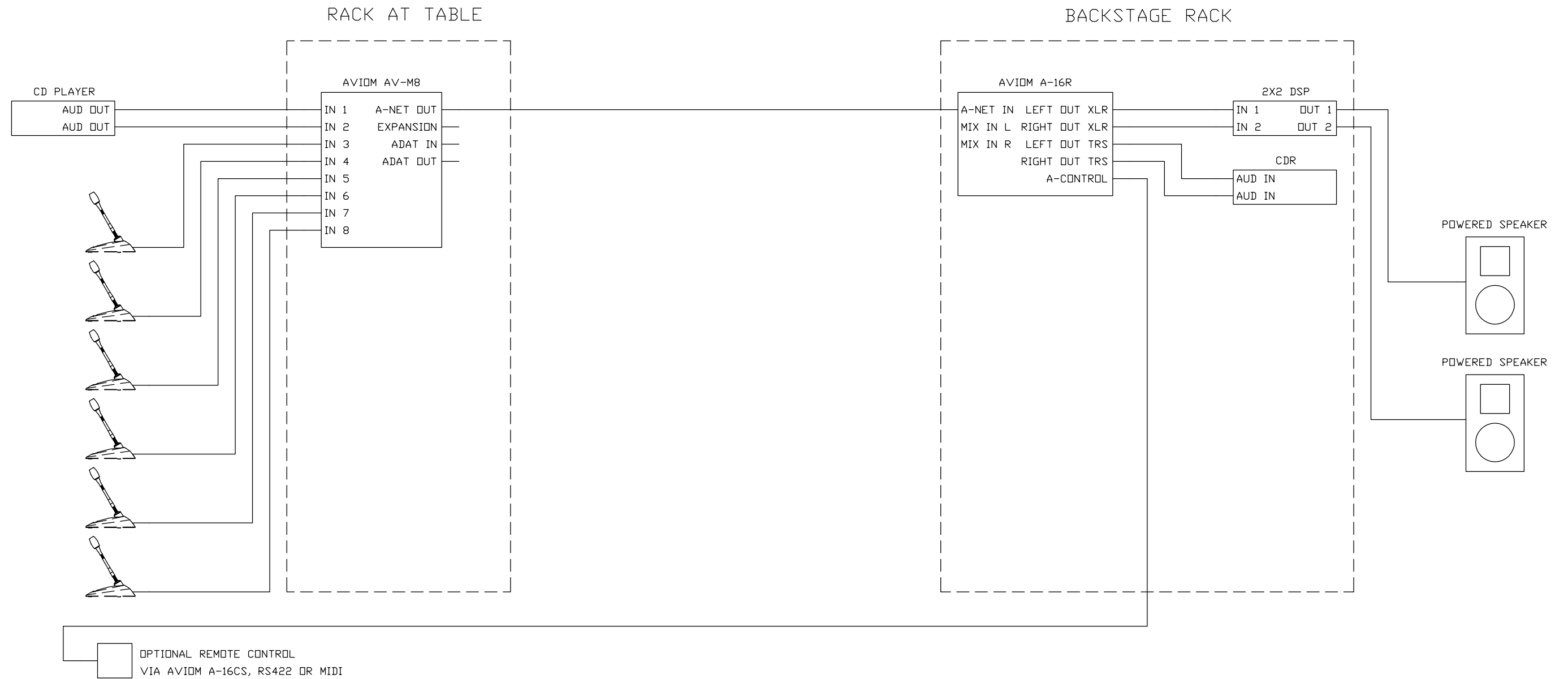
8-CHANNEL CONFERENCE SYSTEM
 Conference mics are connected to an Aviom AV-M8 Mic Input Module mounted under a conference table. A single Cat-5e cable transports these signals to the AV closet, where they are output to a conference controller by an Aviom AN-16/o Output Module.

8 CH CONFERENCE SYS		
SYSTEM LINE DWG		A/V 0.2
<small>Aviom, Inc. 1157 Phoenixville Pike, Suite 201 West Chester, PA 19380-4254 USA</small>		
DRAWN BY JSL	SCALE NTS	Revision 2



16-CHANNEL CONFERENCE SYSTEM
 This system features ten conference mics and two line-level sources connected to two Aviom AV-M8 Mic Input Modules mounted under a conference table. The two AV-M8 modules are connected by ADAT®, with a single Cat-5e cable transporting all twelve channels to the AV closet, where they are output to a conference controller by an Aviom AN-16/o Output Module. This system supports up to 16 channels of inputs.

16 CH CONFERENCE SYS		
SYSTEM LINE DWG		A/V 0.2
<small>Aviom, Inc. 1157 Phoenixville Pike, Suite 201 West Chester, PA 19380-4254 USA</small>		
DRAWN BY JSL	SCALE NTS	Revision 2

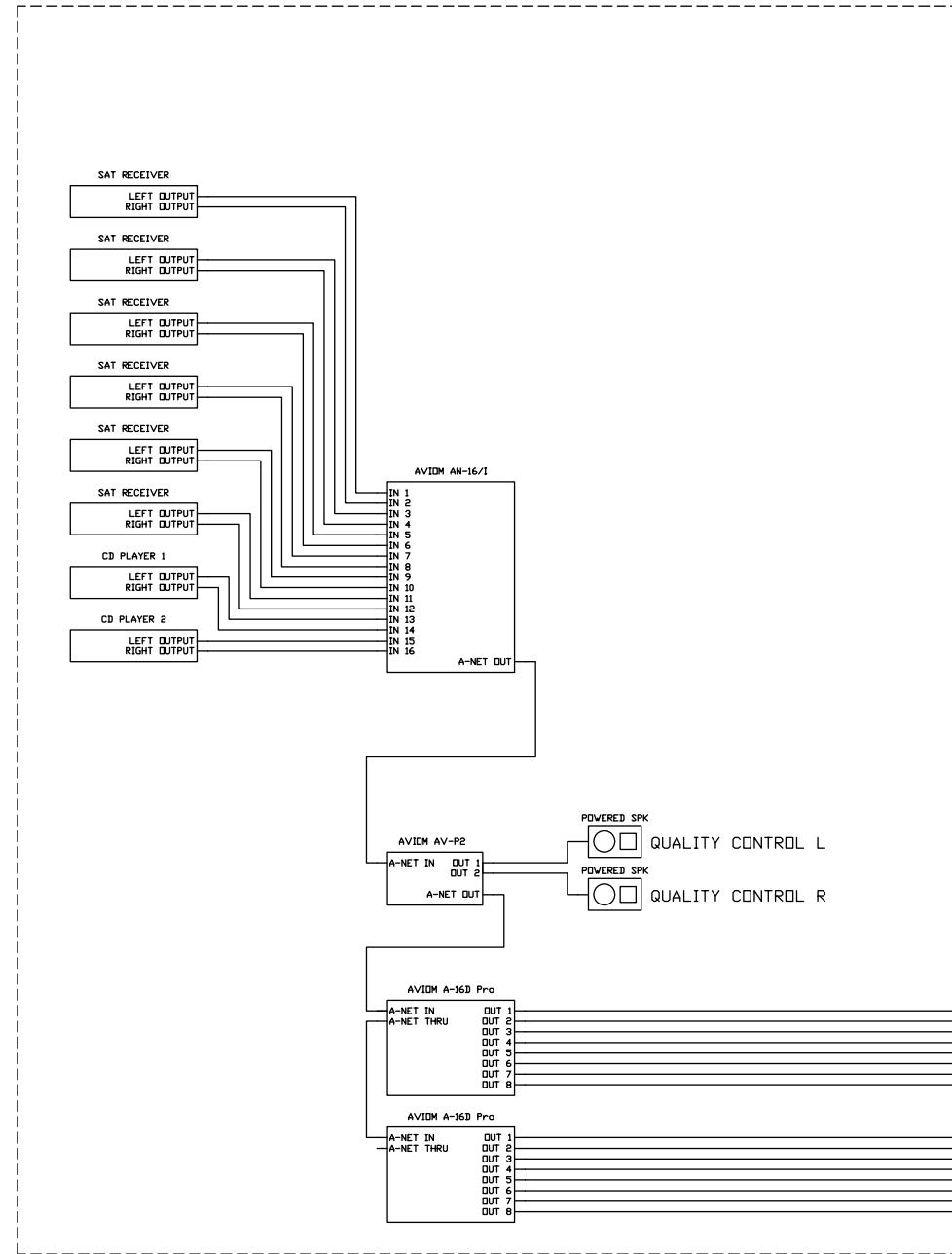


PORTABLE MEETING SYSTEM

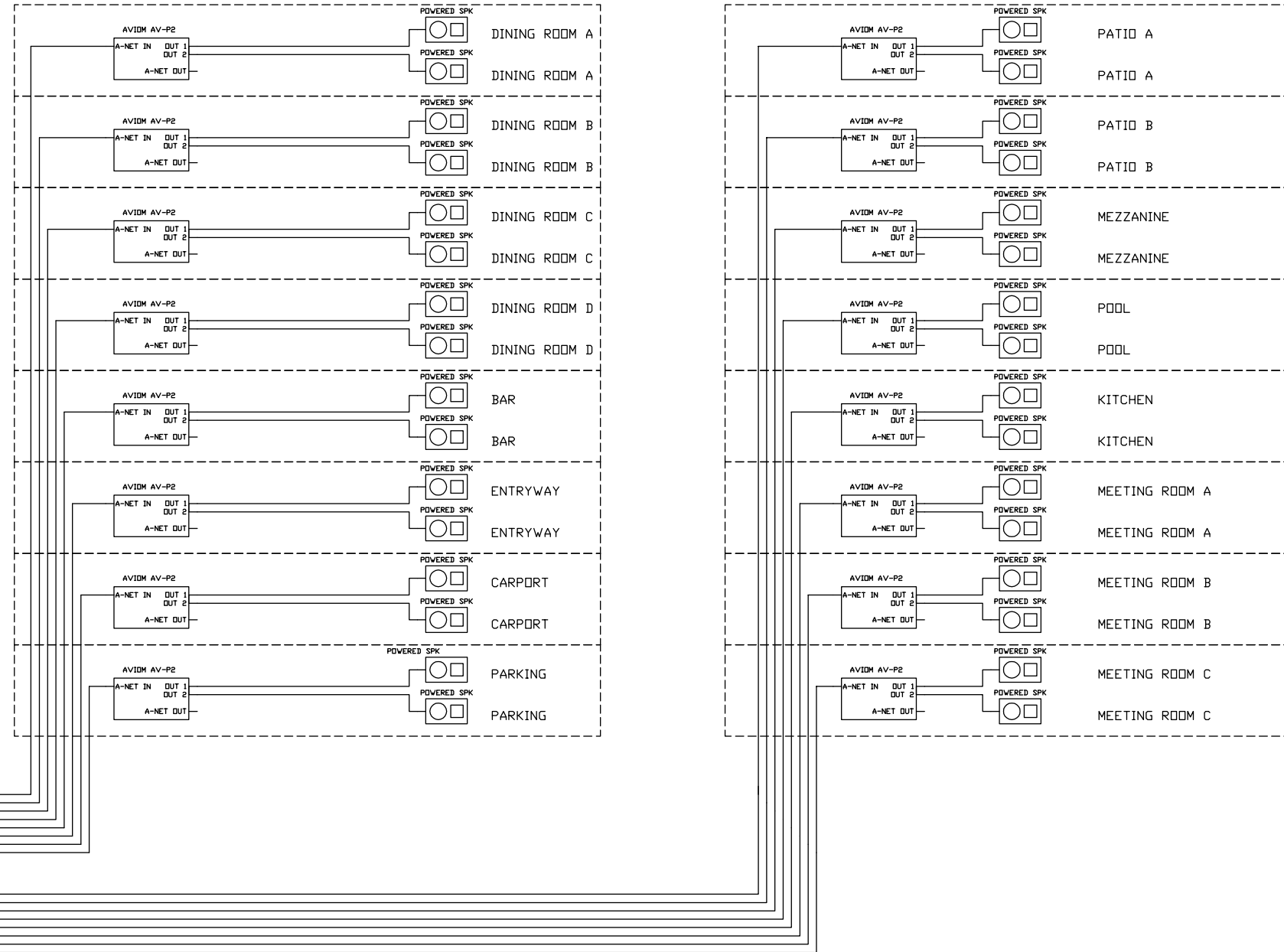
Eight channels of audio are input to an Aviom AV-M8 Mic Input Module at the meeting table (expandable to 16 by cascading a second AV-M8). An Aviom A-16R Personal Mixer outputs a mix of the audio backstage to a processor, recorder, and speakers. The mix can be controlled remotely from the table or FOH with an Aviom A-16CS Control Surface or control panel.

PORTABLE MEETING SYSTEM		
SYSTEM LINE DWG		A/V 0.4
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DRAWN BY JSL	SCALE N1S	Revision 2

RACK ROOM



DISTRIBUTED LOCATIONS

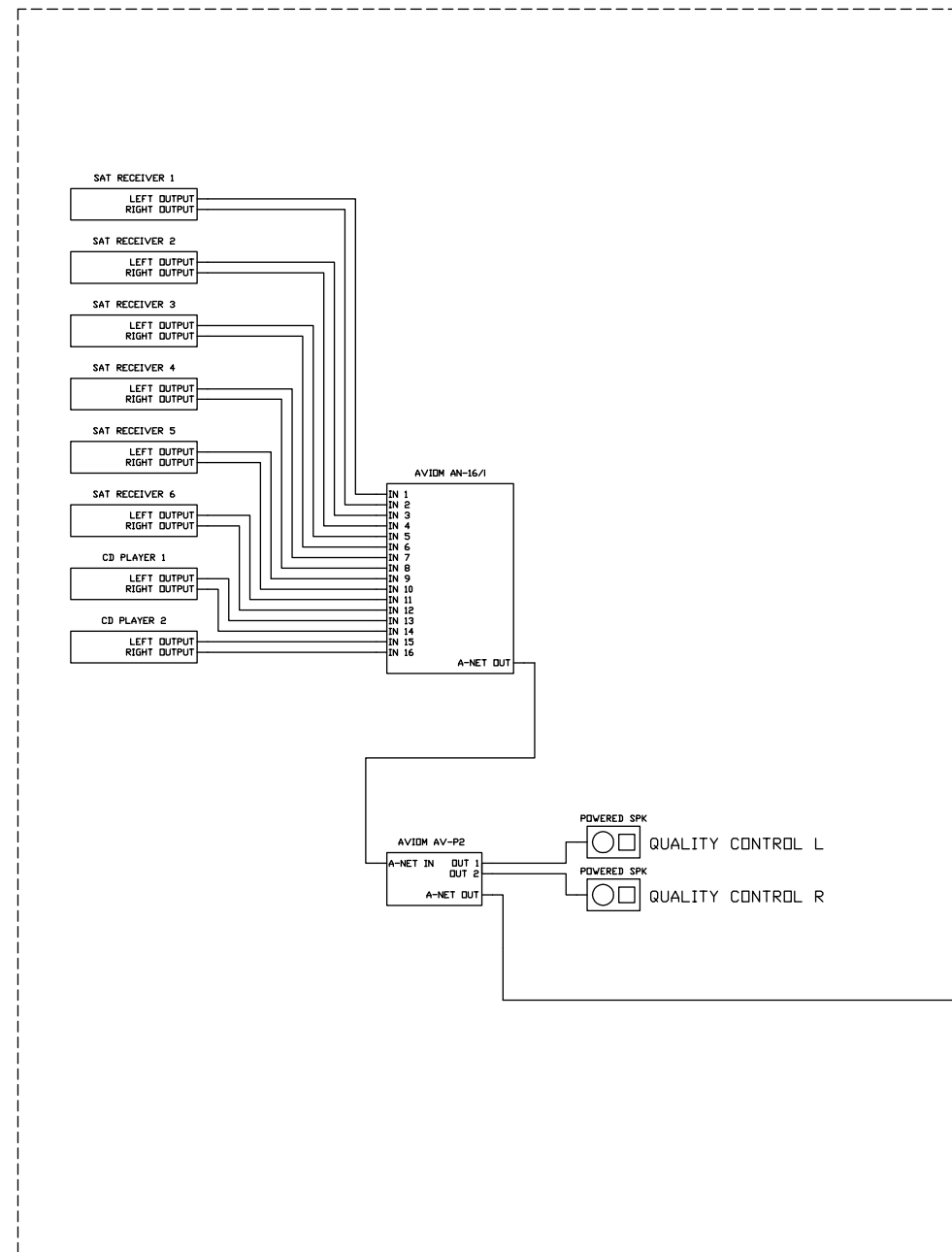


DISTRIBUTED BACKGROUND MUSIC (PARALLEL CONNECTIONS)

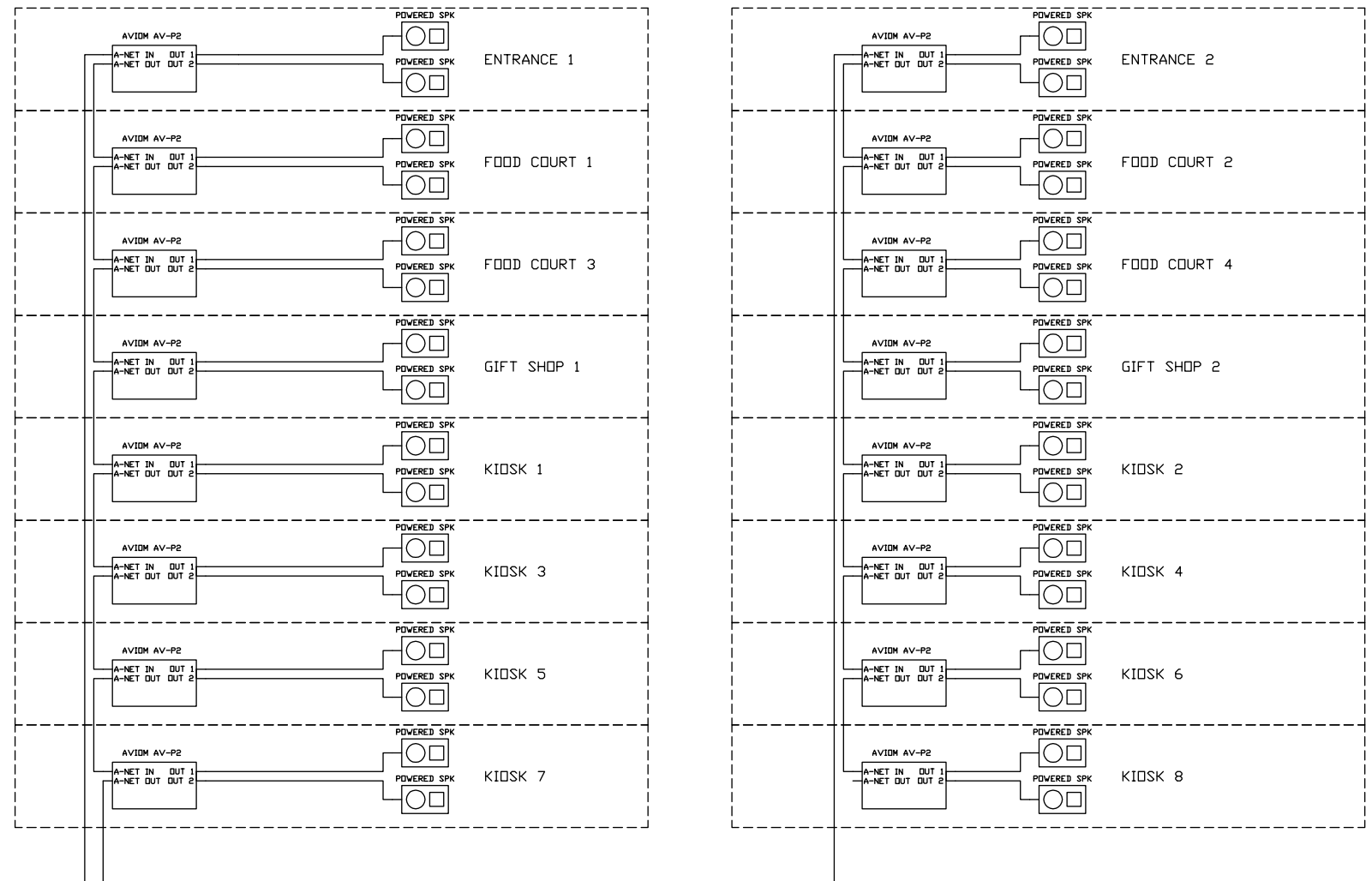
Eight stereo music sources are distributed to sixteen separate locations. With an Aviom AV-P2 Output Module in each location, any stereo source can be selected for local output. Audio and power are distributed to each AV-P2 over Cat-5e from the Aviom A-16D Pro A-Net Distributors in the Rack Room. An additional AV-P2 is used for quality control in the Rack Room. More output locations can be supported with any combination of parallel and serial connections.

DISTRIBUTED BGM (PLL)		
SYSTEM LINE DWG		A/V 0.6
AVIOM <small>Aviom, Inc. 1157 Phoenixville Pike, Suite 201 West Chester, PA 19380-4254 USA</small>		
<small>DRAWN BY</small> JSL	<small>SCALE</small> N1S	<small>Revision</small> 2


RACK ROOM

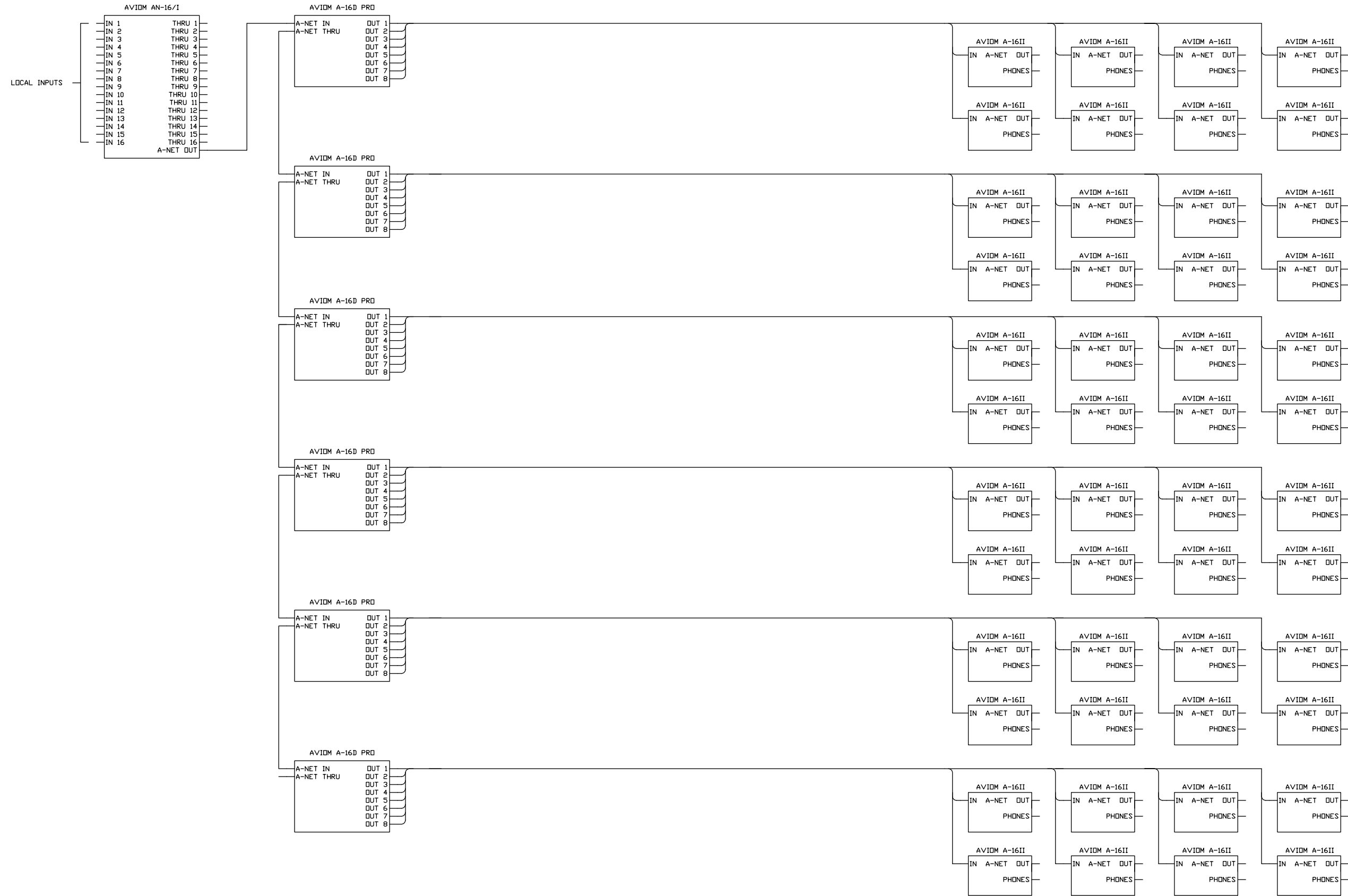


DISTRIBUTED LOCATIONS



DISTRIBUTED BACKGROUND MUSIC (SERIAL CONNECTIONS)
 Sixteen channels of audio are distributed to sixteen locations, each of which uses an Aviom AV-P2 Output Module to select a source for local output. An AV-P2 is also used in the Rack Room for quality control. All A-Net® devices shown here are daisy chained; parallel connections may be substituted using an A-Net Distributor such as the A-16D Pro.

DISTRIBUTED BGM SERIAL		
SYSTEM LINE DWG		A/V 0.7
 Aviom, Inc. 1157 Phoenixville Pike, Suite 201 West Chester, PA 19380-4254 USA		
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COMMAND AND CONTROL AUDIO SOURCE SELECTOR

Sixteen channels of audio comprised of eight stereo sources are distributed to 48 A-16II Personal Mixers, where users monitor audio through headphones. With the A-16II mixers in Held Solo mode, users are able to select one of the eight content sources with the press of a button.

CONTROL CENTER

SYSTEM LINE DWG



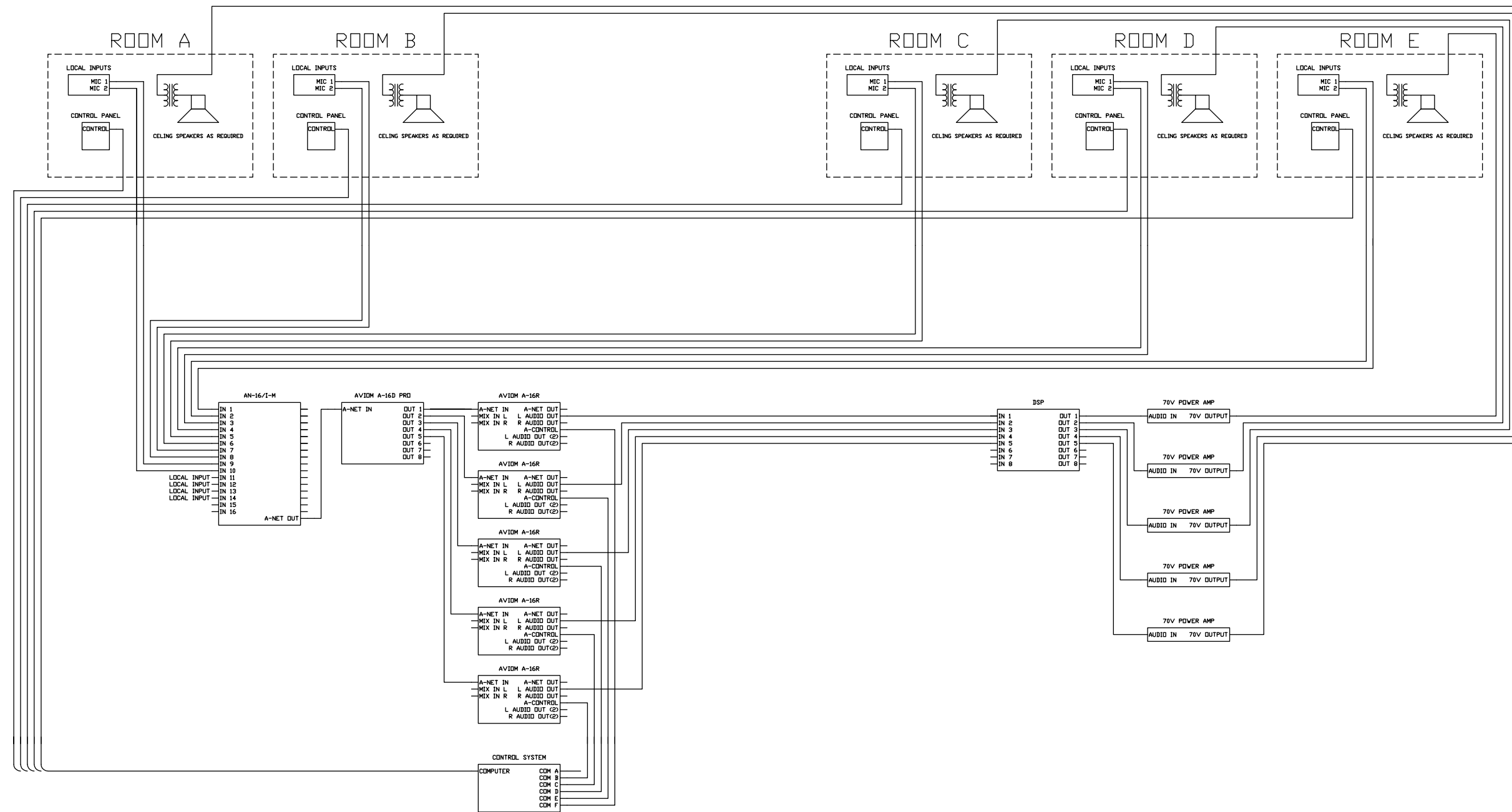
Aviom, Inc.
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JSL

SCALE
N1S

Revision
2

A/V
0.8



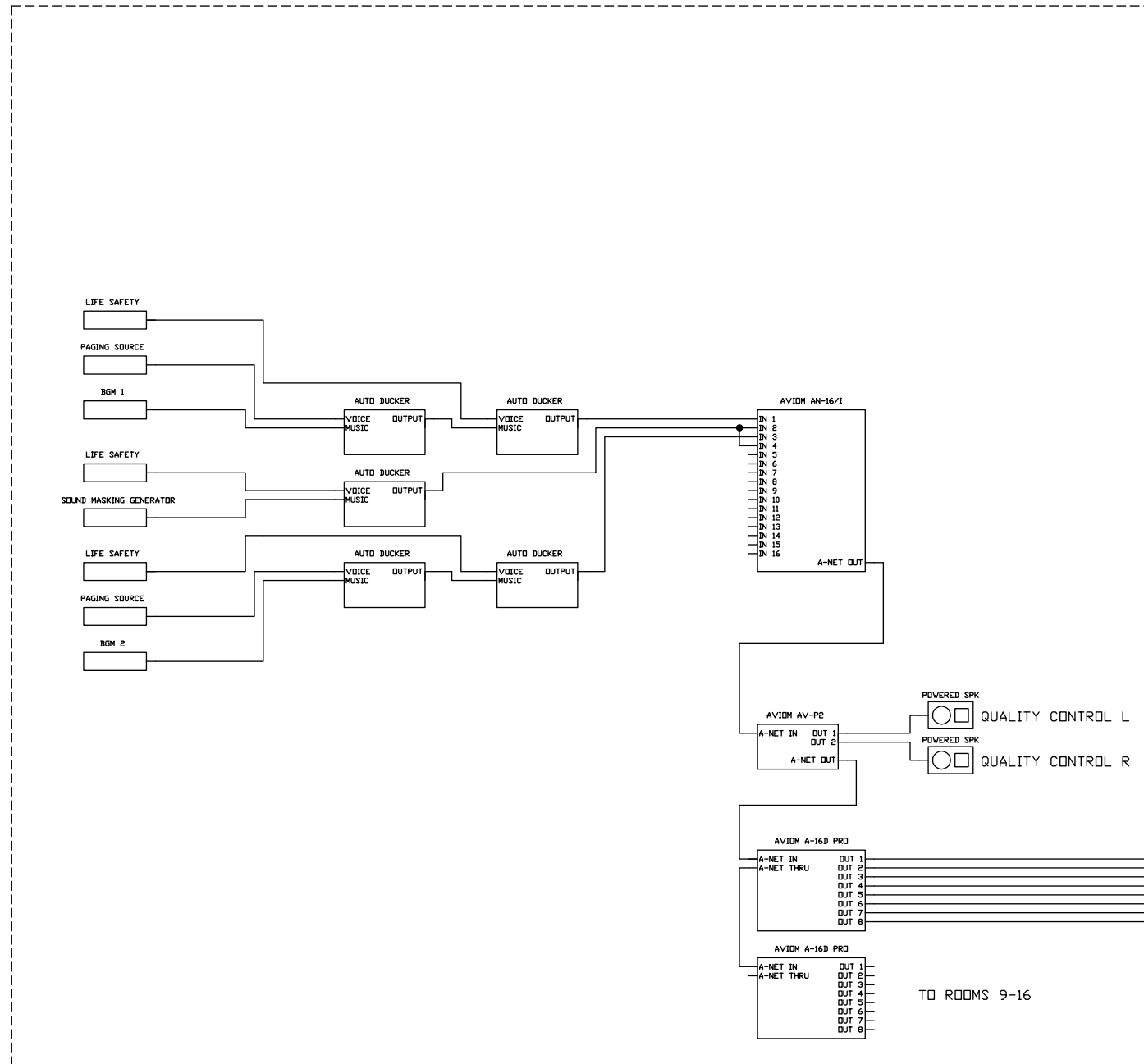
ROOM COMBINING SYSTEM

Two microphones from each of four rooms are connected to an AN-16/i-M Mic Input Module in the equipment room. These signals are distributed to four A-16R Personal Mixers, whose audio outputs are routed through DSP and out to ceiling speakers in the individual rooms. Each room also features a control panel for remote mixing.

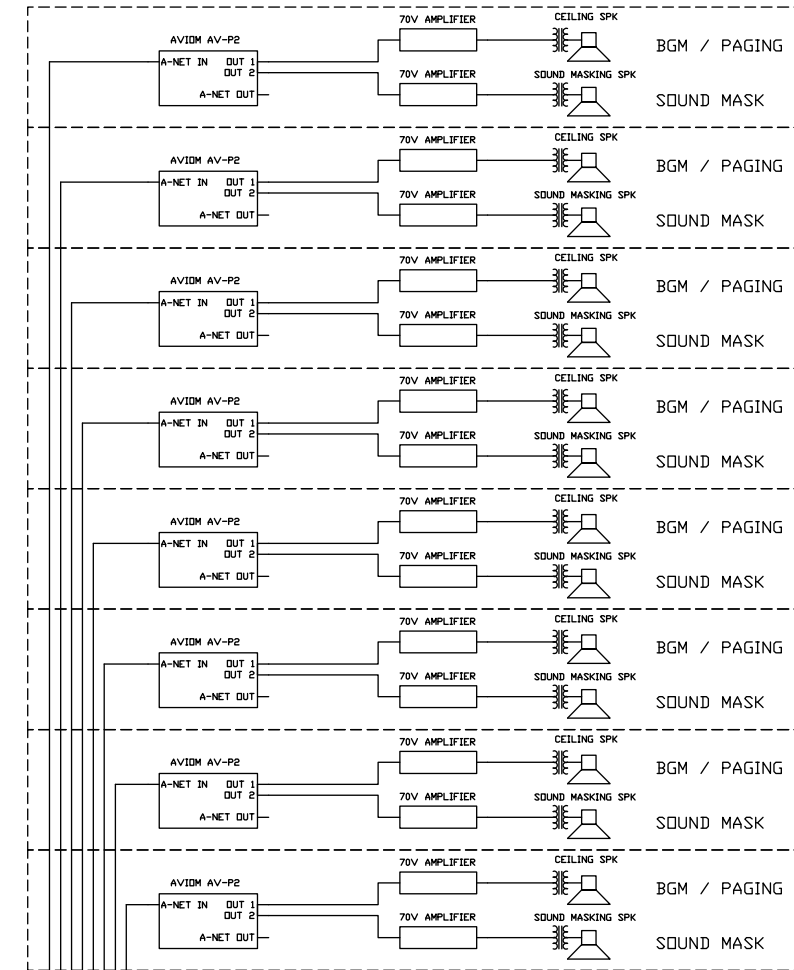
ROOM COMBINING SYSTEM		
SYSTEM LINE DWG		A/V
AVIOM		2.3
DRAWN BY JSL	SCALE NTS	Revision 2

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RACK ROOM




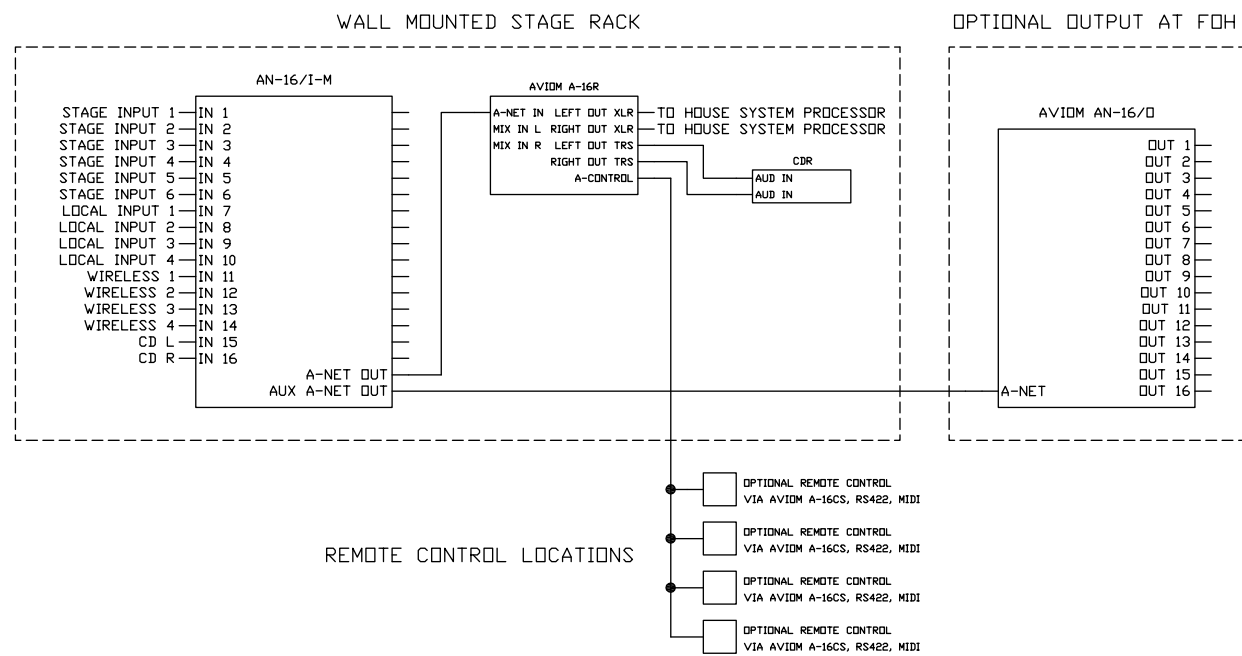
FLOORS 1-8



SOUND MASKING, PAGING, AND LIFE SAFETY SYSTEM

Background music, paging, life safety, and sound masking are distributed to multiple locations throughout a facility. AV-P2 Output Modules in each location allow background content to be selected locally, while life safety, paging, and masking are at every output at all times. A series of auto duckers in the equipment room ensure that paging and life safety content are given priority over background music.

SOUND MASK, BGM, PAGE, LIFE SAFETY		
SYSTEM LINE DWG		A/V 0.6
 Aviom, Inc. 1157 Phoenixville Pk., Suite 201 West Chester, PA 19380-4254 USA		
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THEATRICAL MIX SYSTEM

Up to 16 channels are input to an Aviom AN-16/i-M Mic Input Module connected by Cat-5e to an A-16R Personal Mixer in the same rack. The outputs of the A-16R are fed to the house system processor and a recorder, while the mix functions can be controlled remotely from any one of four locations. The AN-16/i-M may also be connected to an Aviom AN-16/o Output Module at FOH, feeding the main console for larger events.

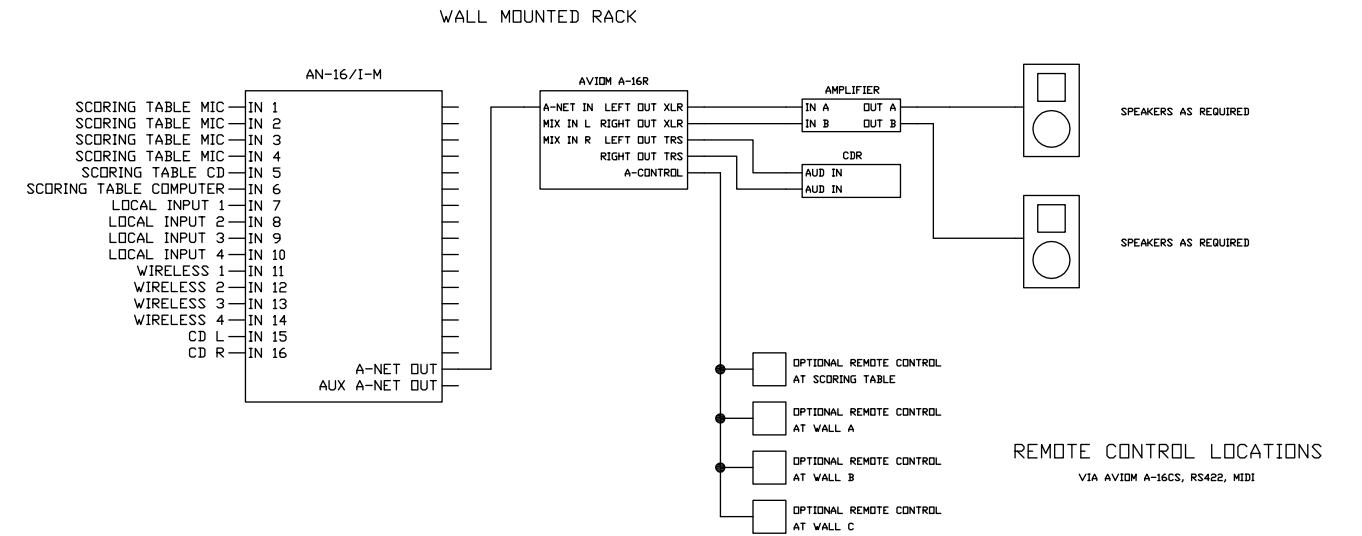
THEATER SIMPLE MIX SYS

SYSTEM LINE DWG

A/V
0.4

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GYMNASIUM SOUND SYSTEM

Up to 16 inputs are connected to an Aviom AN-16/i-M Mic Input Module, which feeds an A-16R Personal Mixer. This mixer is controlled remotely from one of four locations throughout the installation. Audio is output from the A-16R to the main amps and speakers.

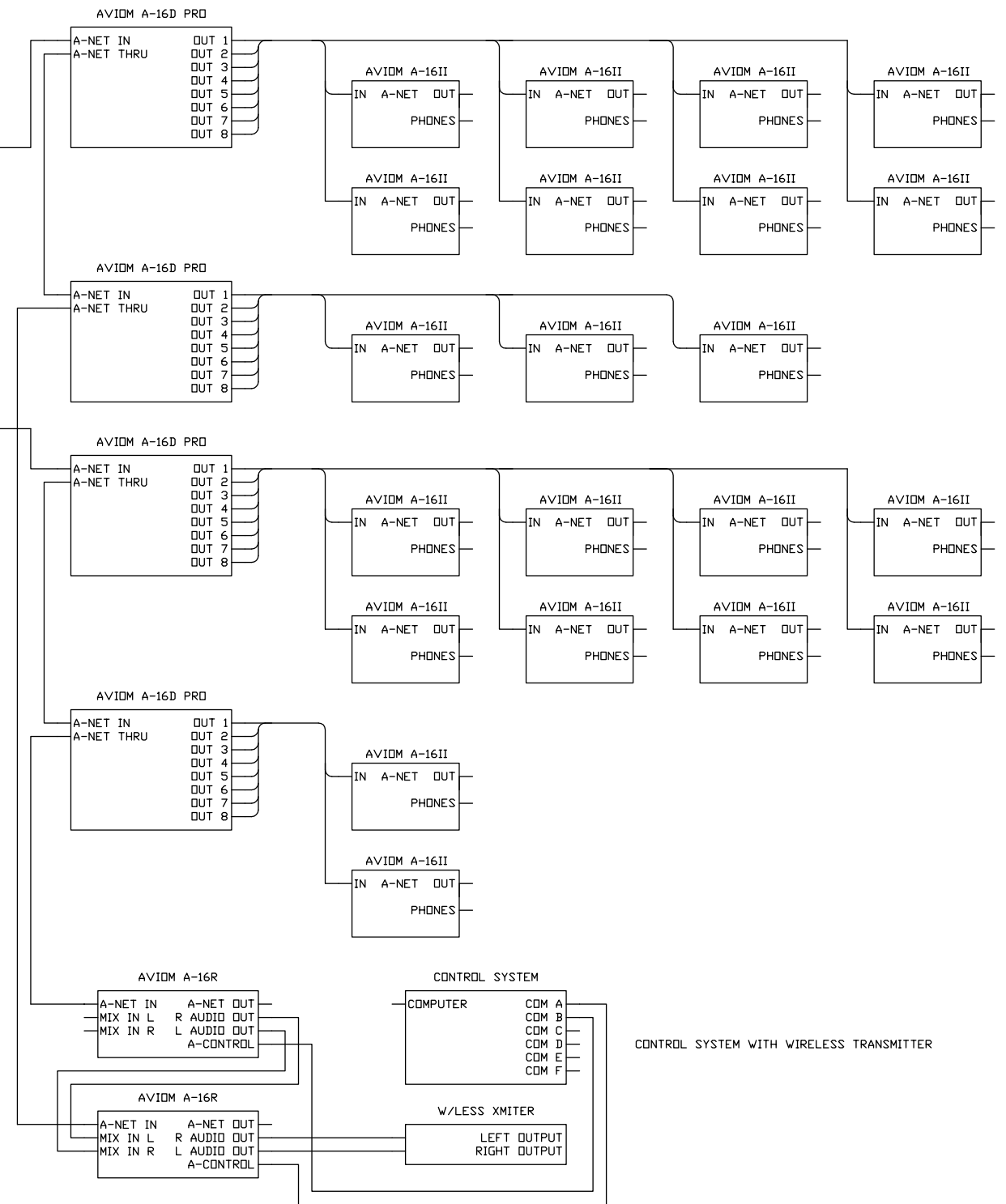
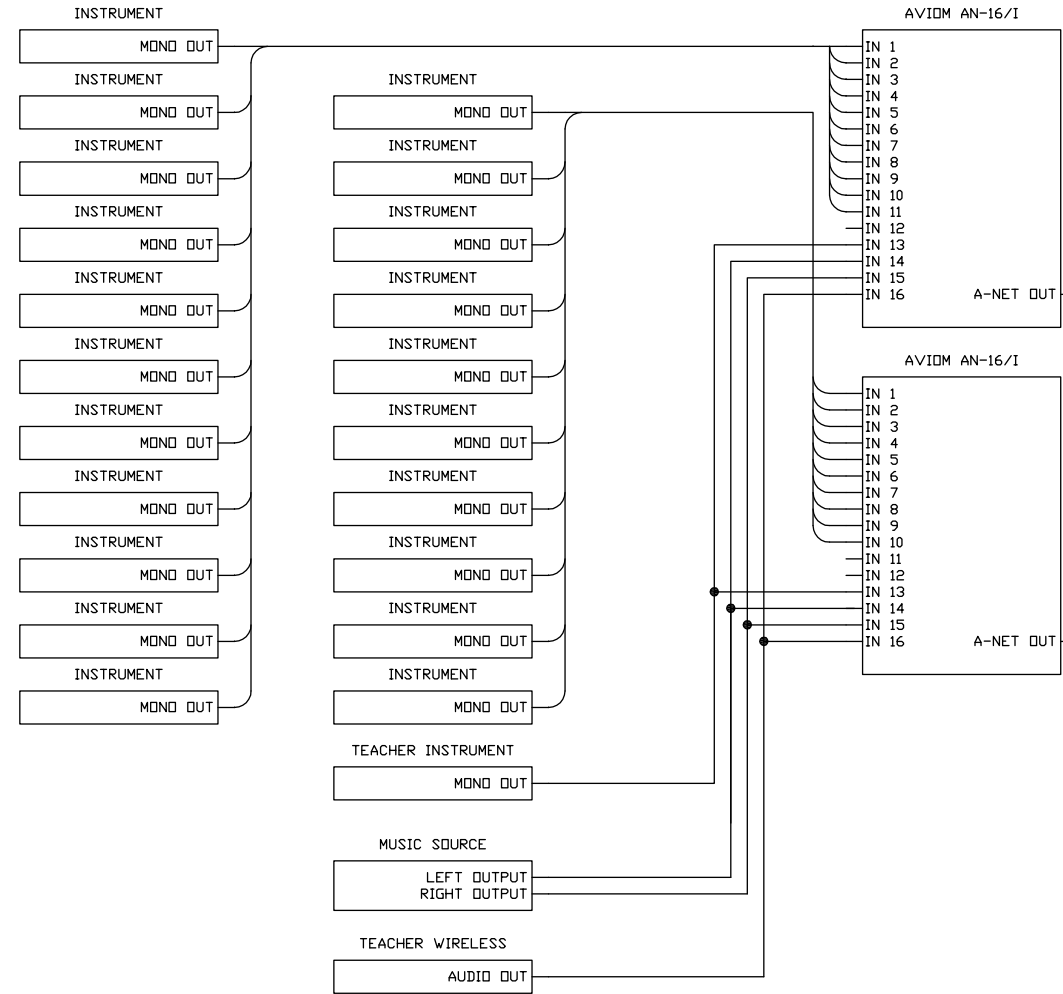
GYMNASIUM SOUND SYSTEM

SYSTEM LINE DWG

A/V
0.4

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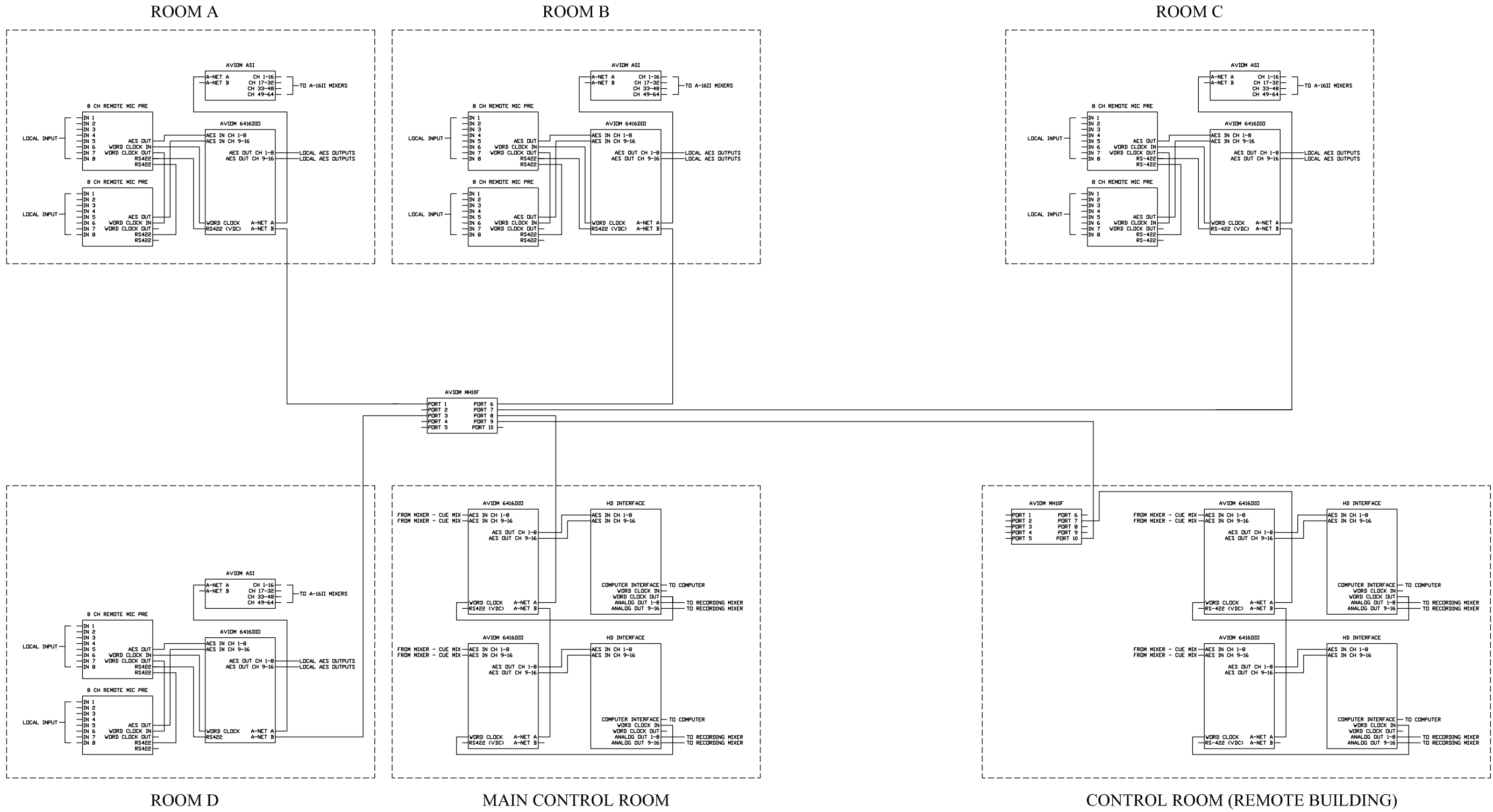
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AUDIO DISTRIBUTION FOR MUSICAL INSTRUCTION LAB

This system allows students to hear themselves, their teacher, prerecorded music, and other students in their group. Each student can customize his or her mix using an A-16II Personal Mixer. The teacher can monitor any student or combination of students through a pair of A-16R Personal Mixers tied together through the Mix In. The teacher's mix can be controlled wirelessly.

MUSICAL INSTRUCTION		
SYSTEM LINE DWG		A/V 0.3
<small>AVIOM, Inc. 1157 Phoenixville Pike, Suite 201 West Chester, PA 19380-4254 USA</small>		
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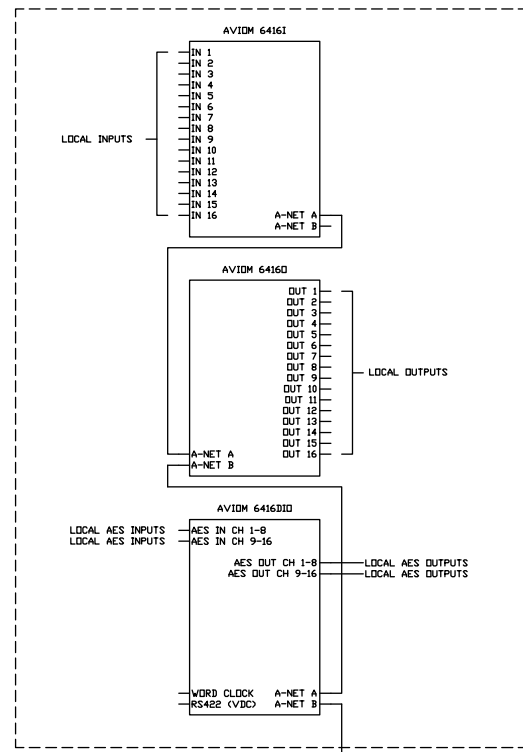


MULTI-ROOM RECORDING FACILITY

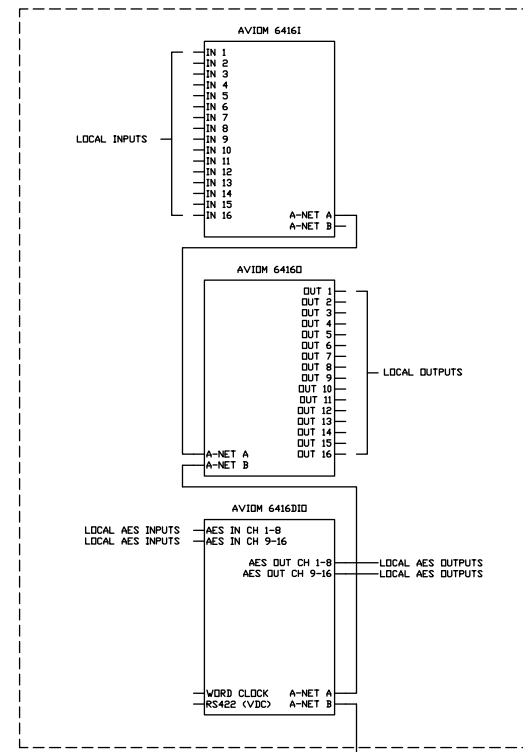
This Pro64™ Series system ties together four recording rooms with both main and remote control rooms. Each recording room supports up to 16 AES3 digital inputs via a 6416dio Digital I/O Module connected to external mic pres, 16 AES3 digital outputs, as well as the ability to provide cue or monitor mixes via a Pro16™ Monitor Mixing System. Both control rooms include 32 AES3 inputs and 32 AES3 outputs. Digital clock may be distributed to all locations over the Pro64 network.

MULTIROOM RECORDING W/REMOTE		
SYSTEM LINE DWG		
A/V 1.9		
<small>Aviom, Inc. 1157 Phoenixville Pike, Suite 201 West Chester, PA 19380-4254 USA</small>		
<small>DRAWN BY</small> JSL	<small>SCALE</small> N/A	<small>Revision</small> 2

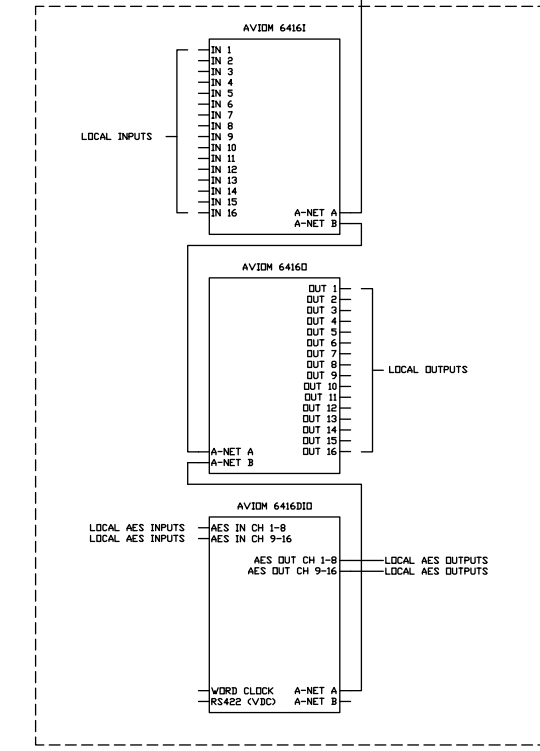
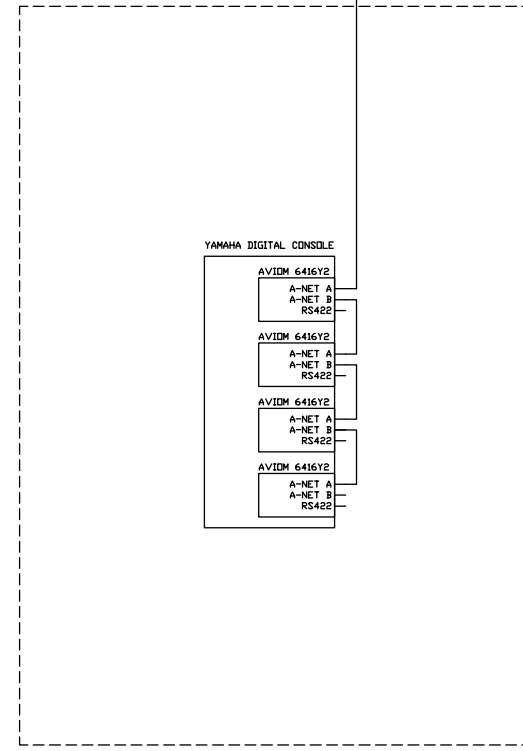
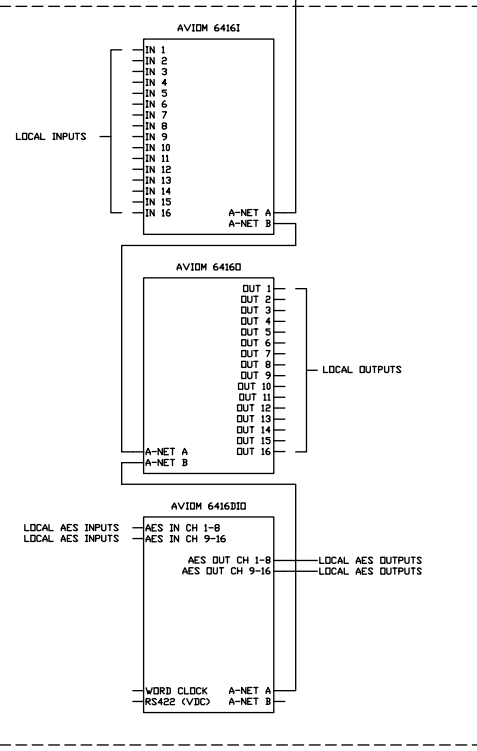
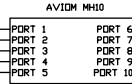
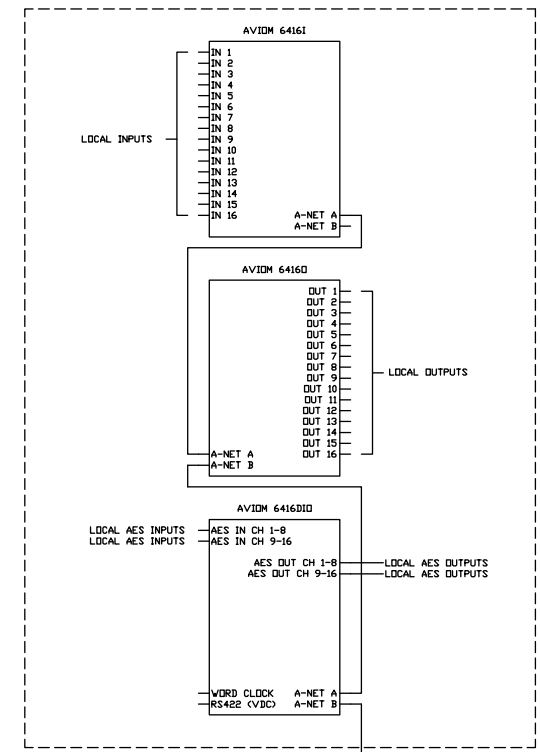
STAGE LEFT RACK ROOM



STAGE RIGHT RACK ROOM



BROADCAST



VIDEO PRODUCTION

DIGITAL MIXER MIX ENGINE

REMOTE SEATING AREA

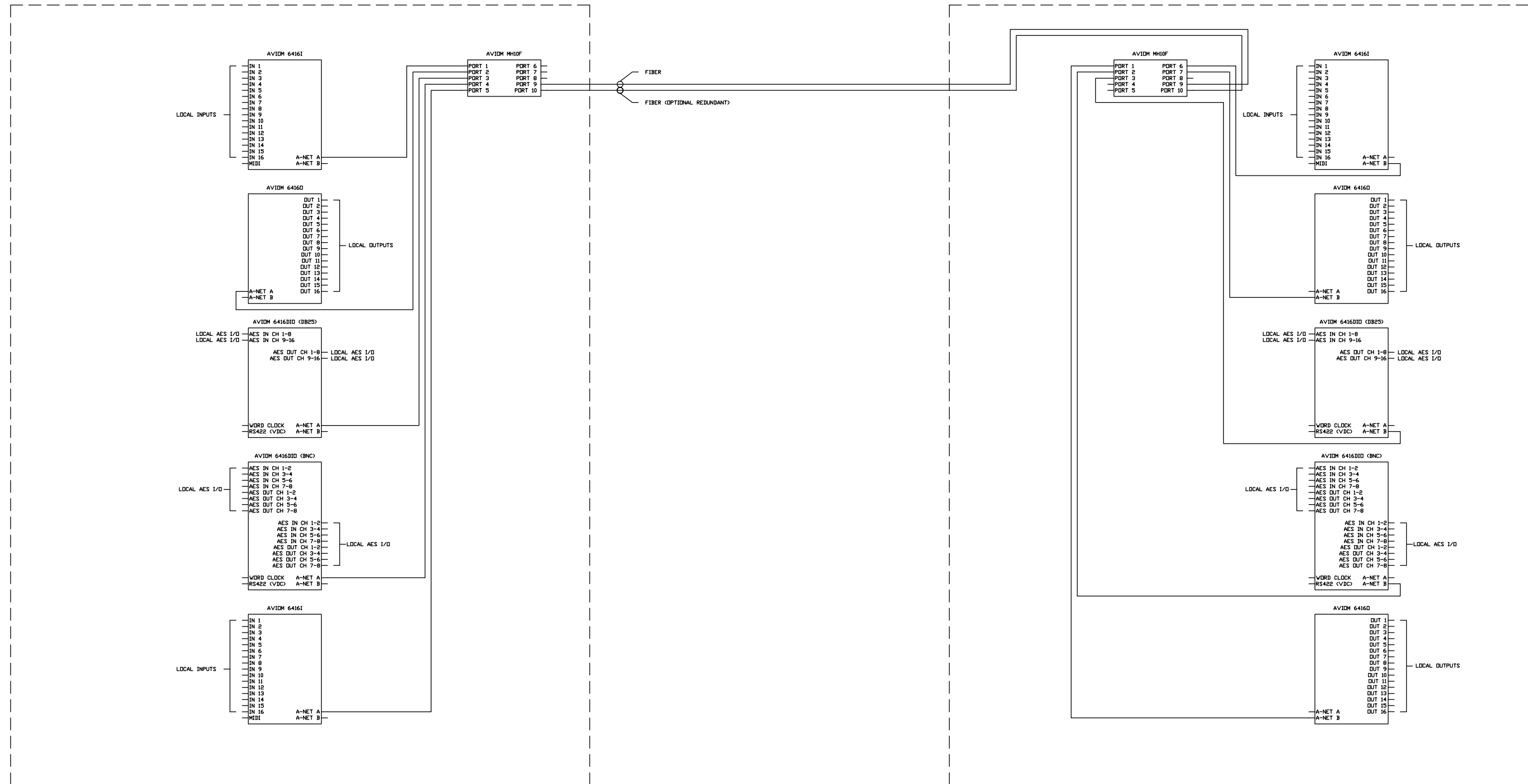
AES AND ANALOG TIE LINES

This Pro64™ Series network provides high speed, high fidelity tie lines between the stage rack rooms, video and broadcast production rooms, and remote seating area. Each location is outfitted with 32 analog inputs and outputs, as well as 32 AES3 digital inputs and outputs. A Yamaha® digital console equipped with four Aviom 6416Y2 A-Net cards provides up to 64 inputs and 64 outputs to/from the network.

AES-AUDIO TIE LINES		
SYSTEM LINE DWG		
AVIOM		
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		A/V 2.0

REPLAY ROOM

FRONT OF HOUSE



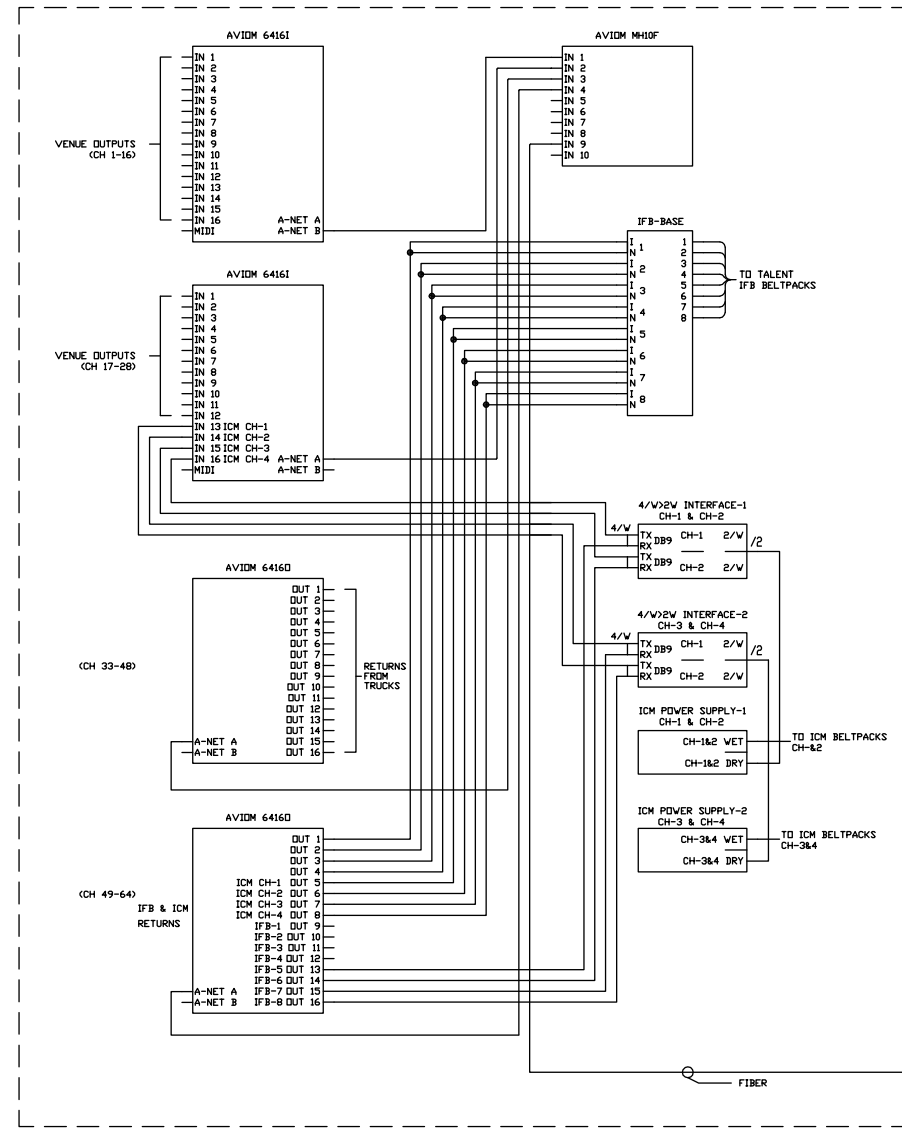
AES AND ANALOG TIE LINES OVER FIBER

Digital and analog tie lines between stage and FOH are provided, supporting up to 64 inputs on stage and 48 channels of returns from FOH. Any combination of analog and digital signals may be used. Each location is equipped with an MH10f Merger Hub for parallel connections within the local rack; single- or multi-mode fiber is used to connect the stage and FOH, with the option of running a redundant backup fiber.

AES-AUDIO TIE LINES OVER FIBER		
SYSTEM LINE DWG		
AVIOM		
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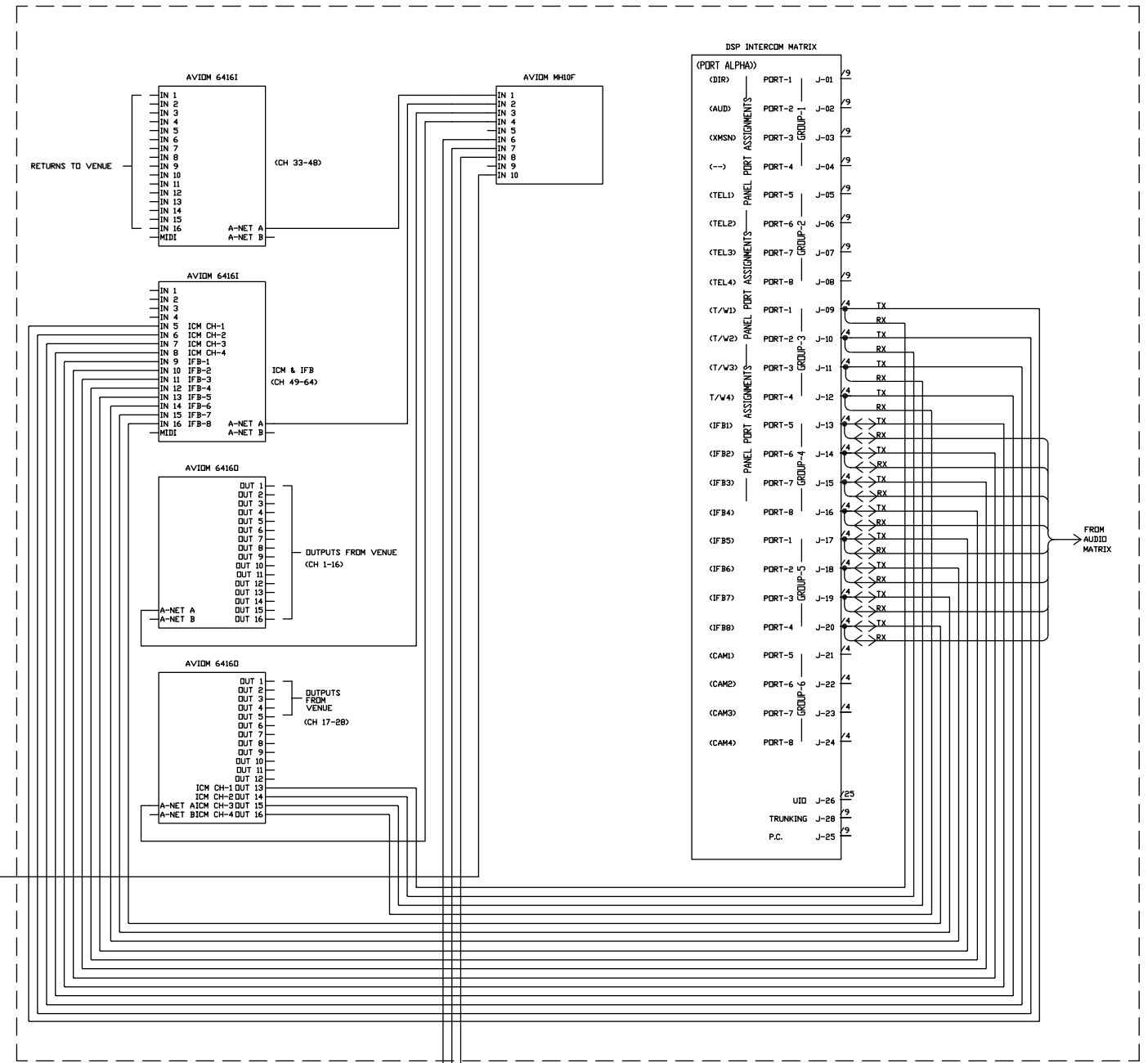
A/V
2.1

VENUE



ALL WIRE CAT5E UNLESS OTHERWISE NOTED

TRUCK 1



REMOTE TRUCK AUDIO WITH IFB DISTRIBUTION

Twenty-eight channels of audio, plus IFB content, are networked from a venue to one or more remote trucks over a fiber optic link between two Aviom MH10f Merger Hubs. Sixteen channels of returns, along with additional IFB content, are networked back to the venue on the same cables.

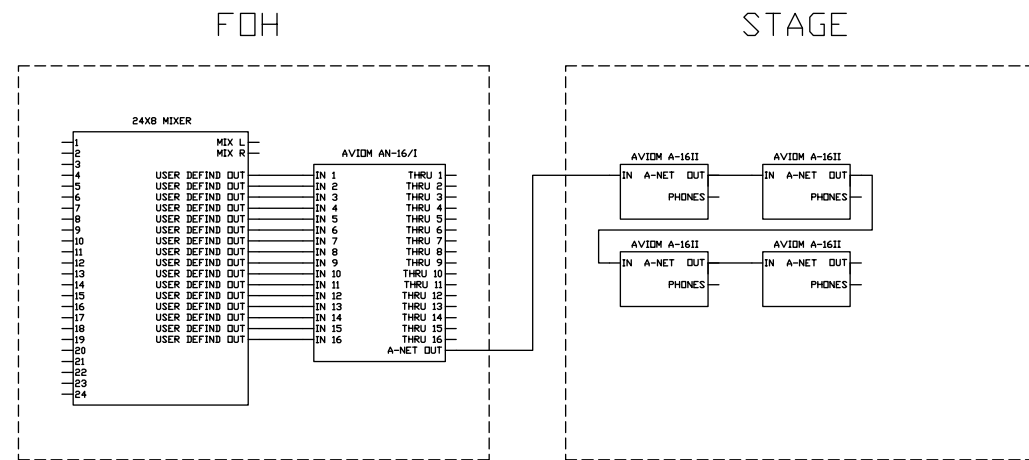
REMOTE TRUCK AUDIO/IFB DISTRO

SYSTEM LINE DWG

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A/V
2.5



BASIC MONITOR MIXING SYSTEM (SERIAL CONNECTIONS)

This basic Pro16™ Monitor Mixing System utilizes serial connections between devices, with power supplied at each device locally. Any 16 line-level signals from the console are used, typically a combination of inserts, direct outs, auxes, and groups. The Thru jacks on the AN-16/i can be used to patch those signals to other analog devices, such as DSP units. Any unlimited number of Personal Mixers can be daisy chained.

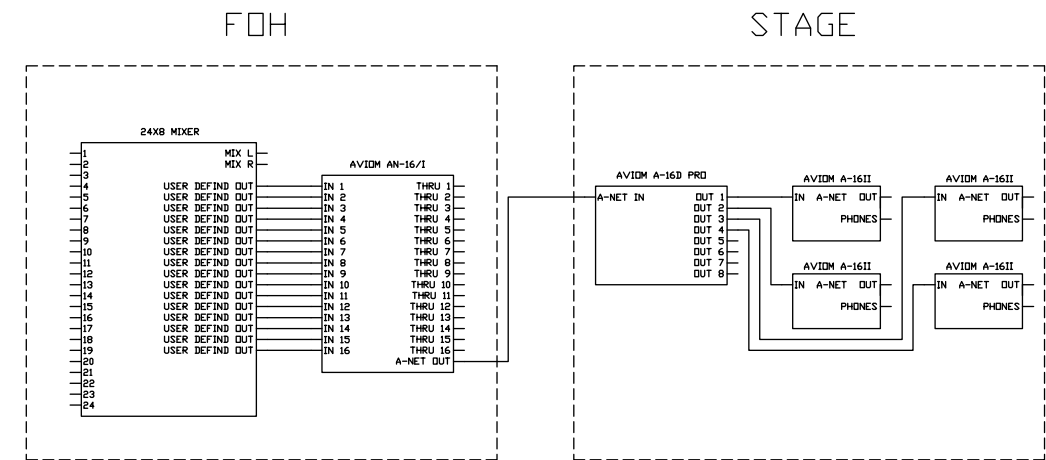
BASIC PMM SYSTEM

SYSTEM LINE DWG

A/V
1.0

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BASIC MONITOR MIXING SYSTEM (PARALLEL CONNECTIONS)

This basic Pro16™ Monitor Mixing System uses an A-16D Pro A-Net Distributor to provide audio and power to the individual Personal Mixers, eliminating the need for locally supplied power connections at the mixers. Up to 8 Personal Mixers can be connected to each A-Net Distributor in this manner. There is no limit to the number of Personal Mixers or Distributors in a system.

BASIC PMM W/ DISTRO

SYSTEM LINE DWG

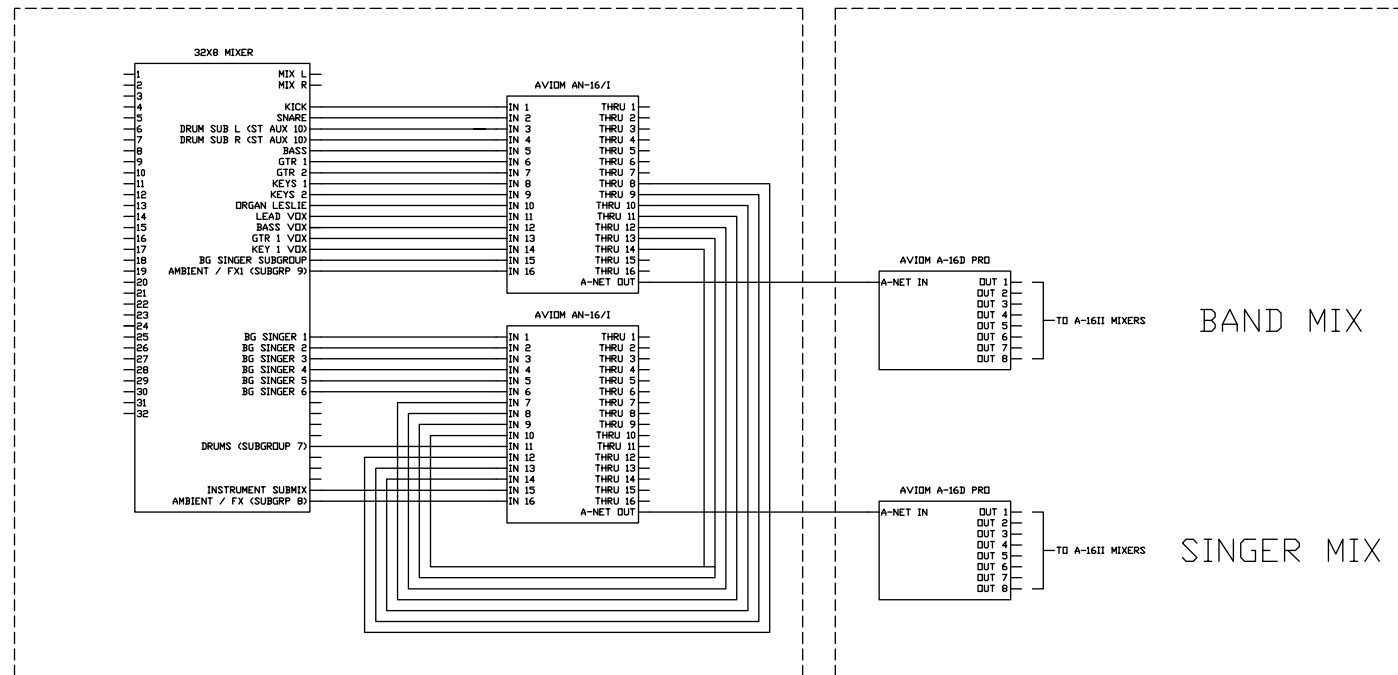
A/V
1.0

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FOH

STAGE



DUAL FEED MONITOR MIXING SYSTEM

With two AN-16/i Input Modules at the console, two sets of monitor feeds can be distributed to performers on stage. Channels common to both feeds, such as the lead vocals, are patched to both Input Modules, using the Thru jacks on the first to connect to the second. Using different combinations of submixes (for example drums versus singers) allows the monitor feeds to be tailored to the performers' needs.

32 CH PMM, CONJOINED MIXES

SYSTEM LINE DWG

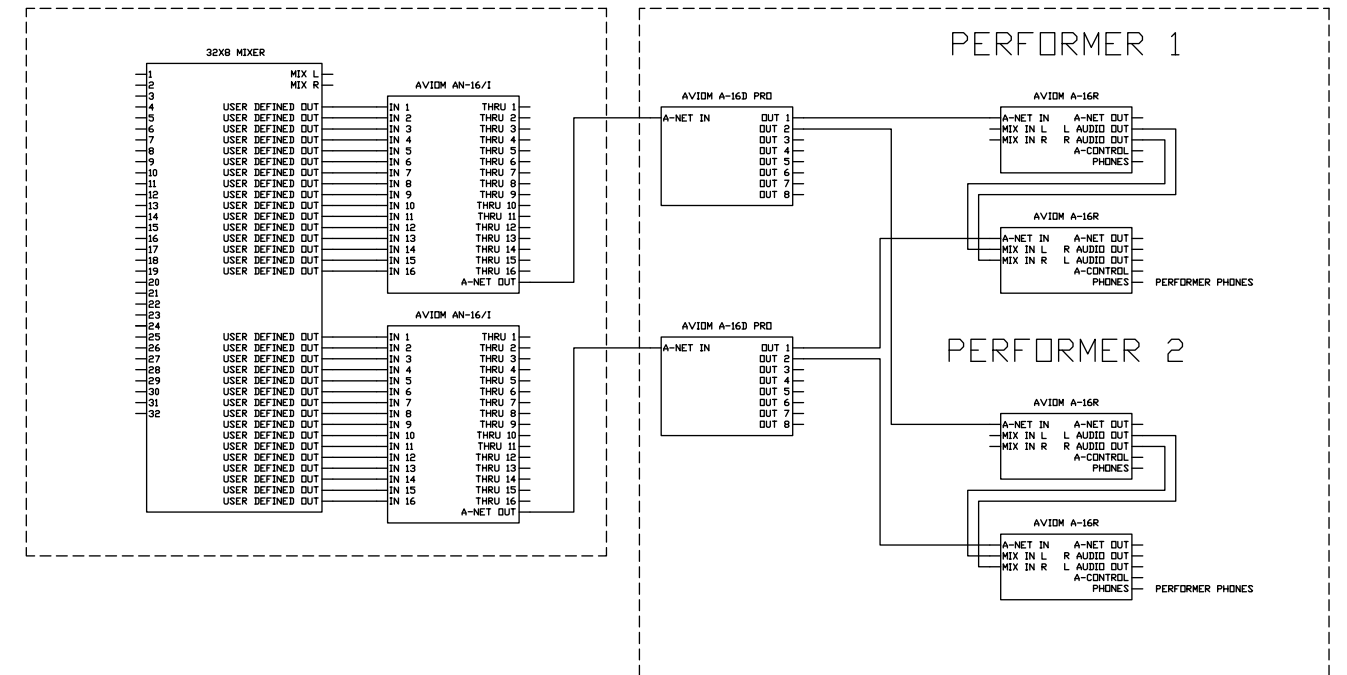
A/V
1.0

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FOH

STAGE



32-CHANNEL MONITOR MIXING SYSTEM

Utilizing the Mix In function on the A-16R allows performers to mix up to 32 channels. The audio outputs of one A-16R are connected to the Mix In of the second A-16R. The outputs of the second A-16R include a mix of all 32 channels. An A-16CS Control Surface can be added to each A-16R for remote control.

32 CH PMM @ EACH LOCATION

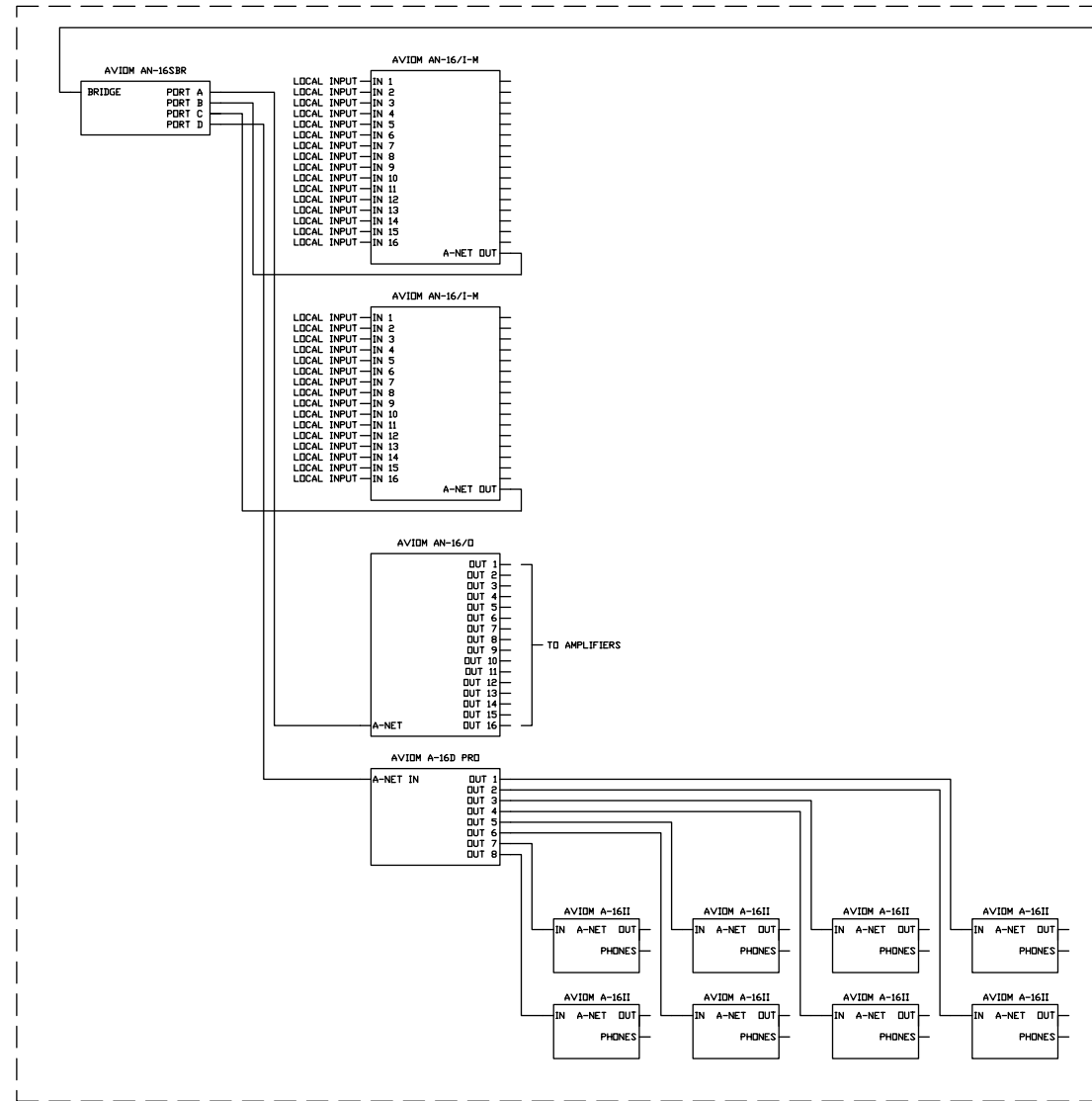
SYSTEM LINE DWG

A/V
1.0

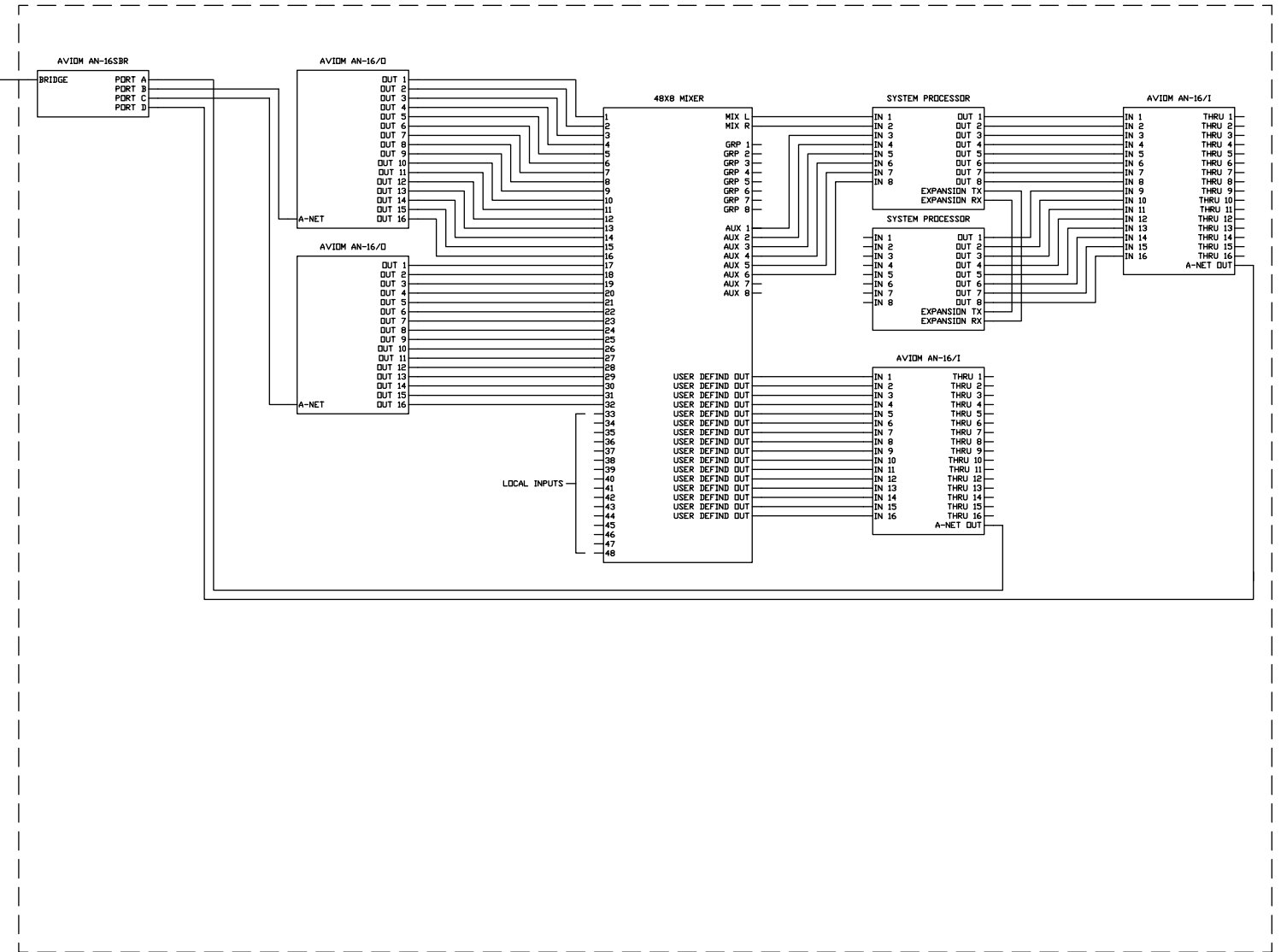
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West Chester, PA 19380-4254 USA

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EQUIPMENT AT STAGE



EQUIPMENT AT FOH



32X16 DIGITAL SNAKE WITH PERSONAL MONITOR SYSTEM

This system features a 32x16 digital snake, comprised of two AN-16/i-M Mic Input Modules on stage, connected to two AN-16/o Output Modules at FOH, with an AN-16/i Input Module at FOH for returns back to the stage. All signals are transported between the stage and the FOH position on a single Cat-5e cable via two AN-16SBR System Bridge modules. That same cable also carries signals to Aviom Personal Mixers on stage.

PRO16 SNAKE 32X16, PMM

SYSTEM LINE DWG

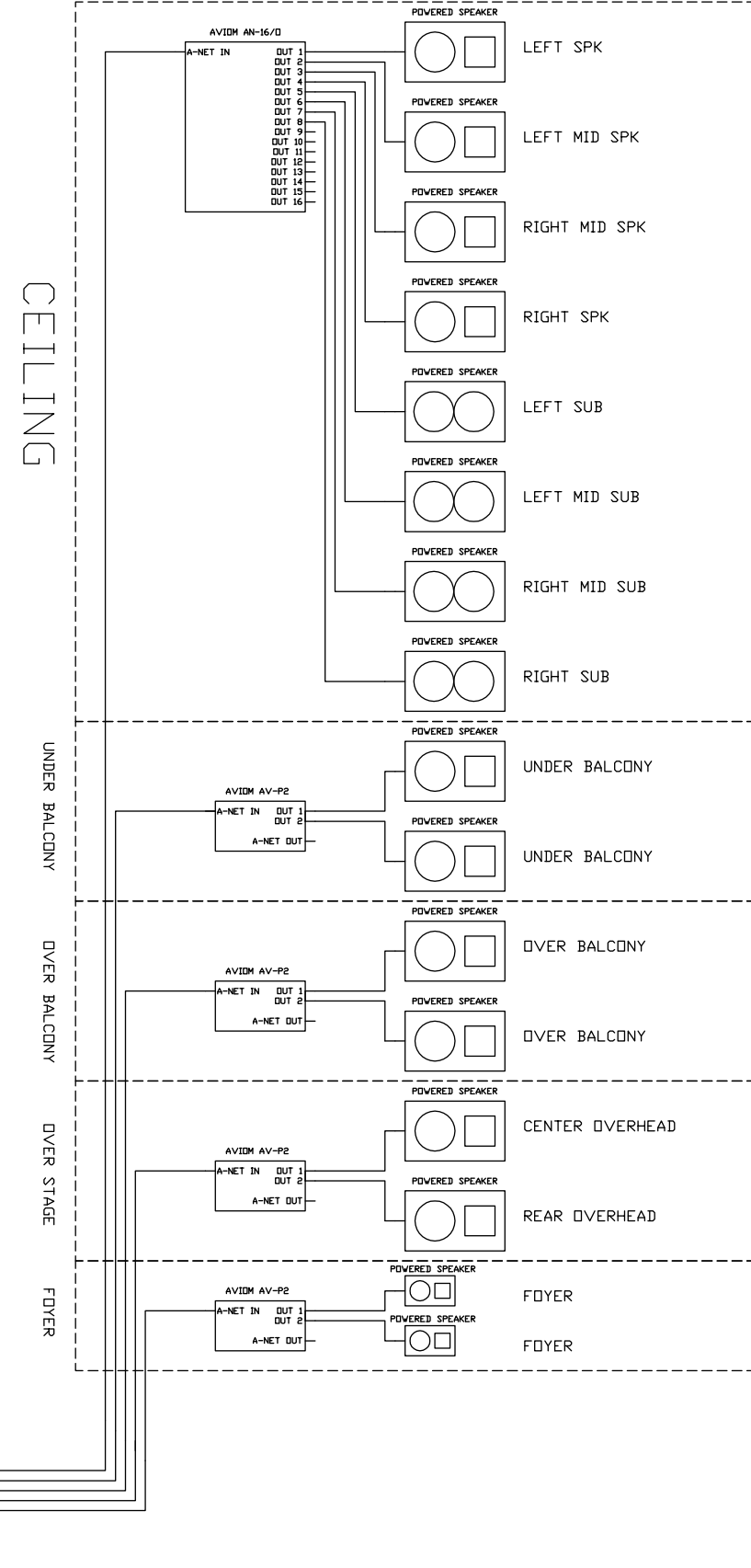
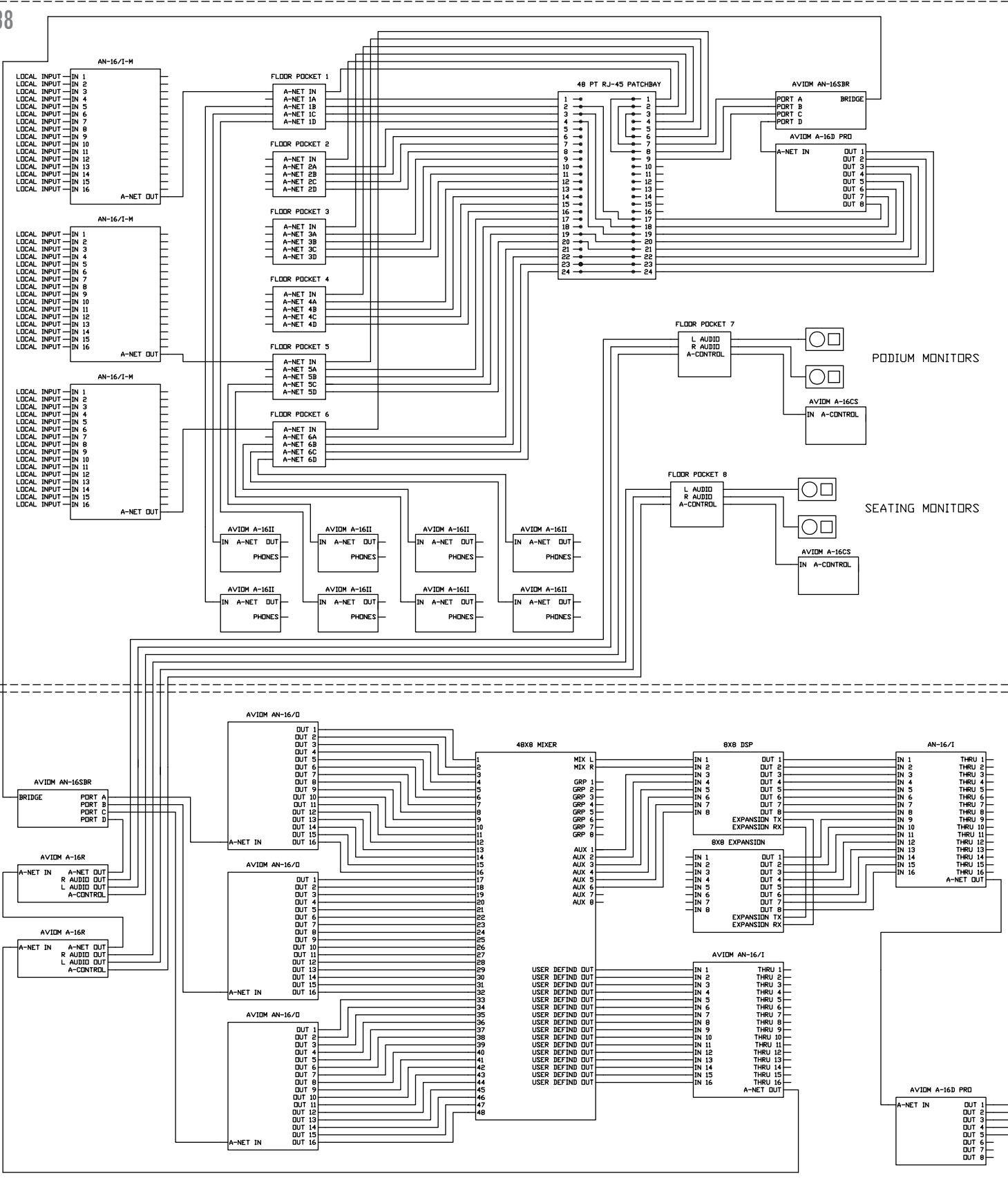
AVIOM Aviom, Inc.
1157 Phoenixville Pike, Suite 201
West Chester, PA 19380-4254 USA

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SCALE
N1S

Revision
2

A/V
1.3



48X0 DIGITAL SNAKE WITH PERSONAL MONITOR SYSTEM AND AUDIO DISTRIBUTION

The heart of this system is a 48x16 digital snake, with 48 inputs provided on stage via three Aviom AN-16/i-M Mic Input Modules and 16 channels of returns fed to an Aviom Pro16™ Monitor Mixing System, featuring a combination of A-16II and A-16R Personal Mixers. In addition, FOH returns are carried digitally from the console to output locations throughout the venue. Analog outputs are provided with a combination of AN-16/o and AV-P2 Output Modules. Standard floor pockets and an RJ45 patchbay allow for flexibility.

PRO16 48XPMM, DISTRO

SYSTEM LINE DWG

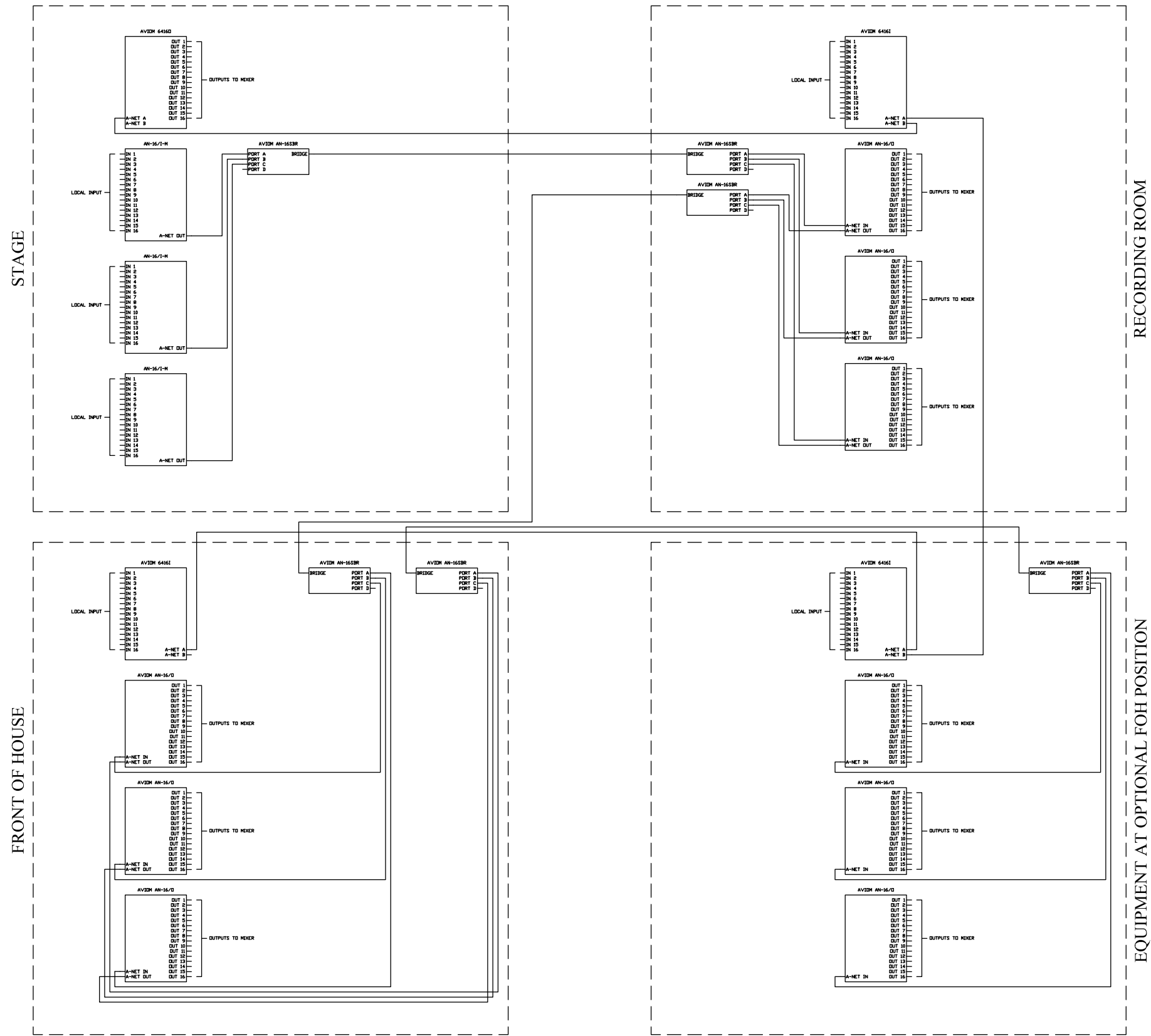
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SCALE
NTS

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2

A/V
1.4



48X0 DIGITAL SNAKE WITH DIGITAL SPLITS AND NETWORKED RETURNS

Forty-eight inputs on stage are provided through three AN-16/i-M Mic Input Modules. These signals are distributed to three locations, on a single cable to each room, where they are output by three AN-16/o Output Modules. Each of these output locations also includes a 64161 Input Module for returns. Sixteen channels of returns, comprised of audio from all three rooms, can be output on stage by the 64160 Output Module.

PRO16 SNAKE, PRO64 RETURNS

SYSTEM LINE DWG

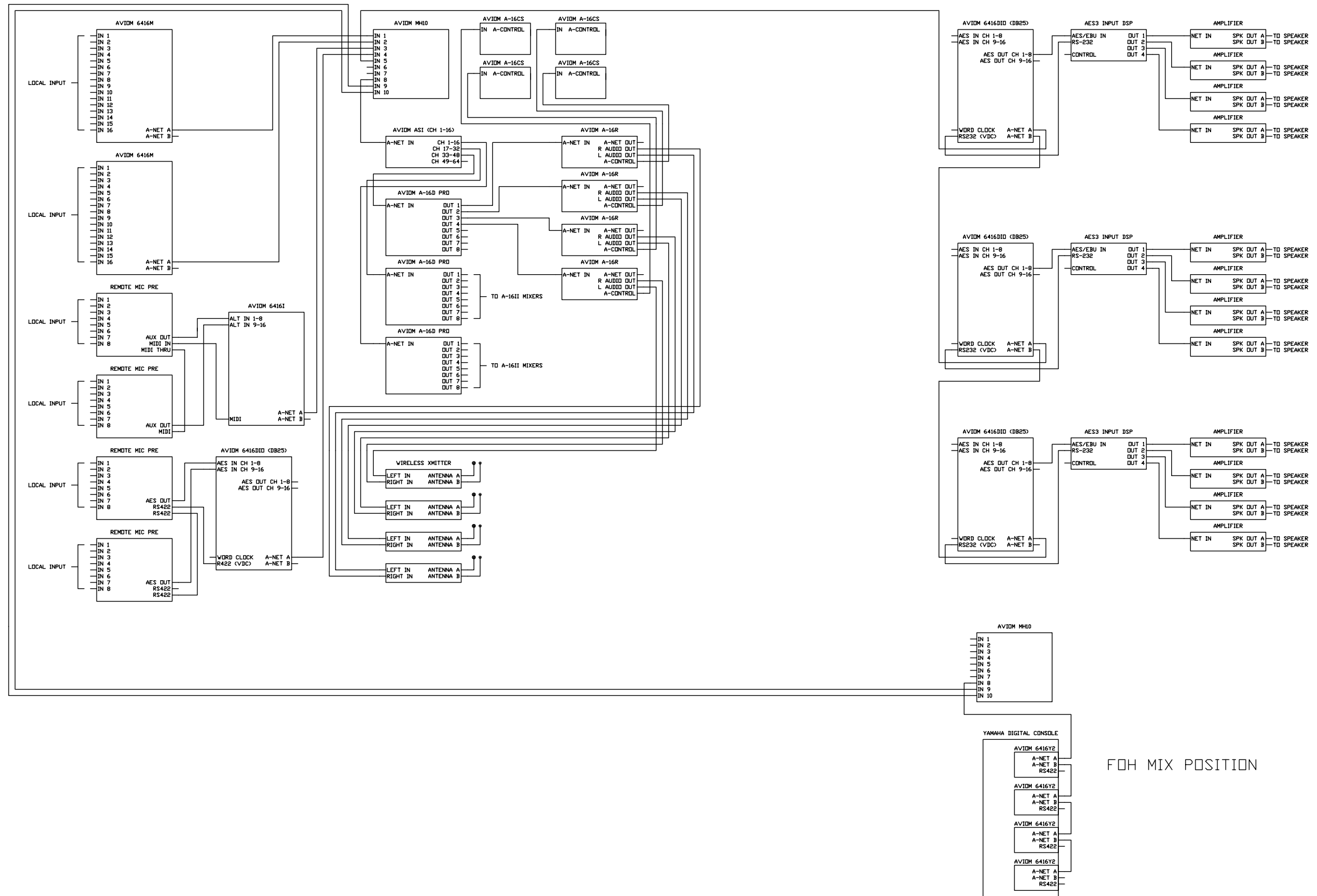
A/V
1.5

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SCALE
N1S

Revision
2



AUDIO NETWORK FOR LIVE PERFORMANCE, WITH PERSONAL MONITOR SYSTEM

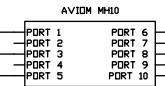
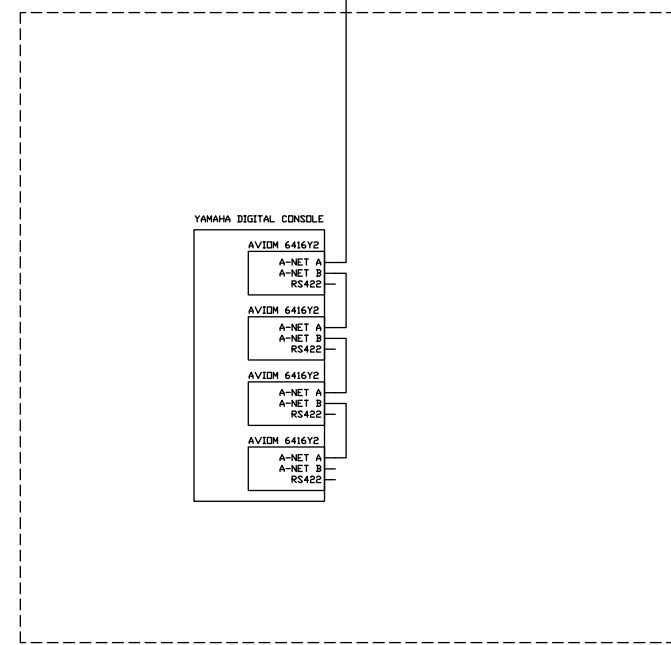
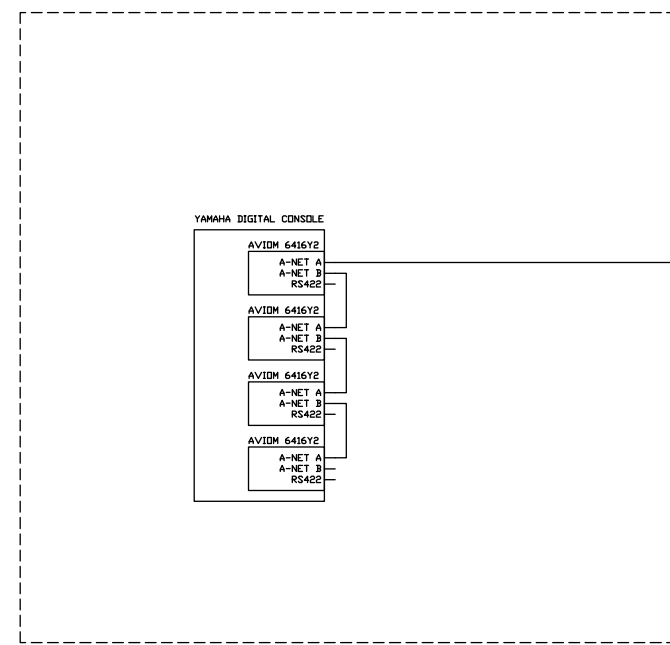
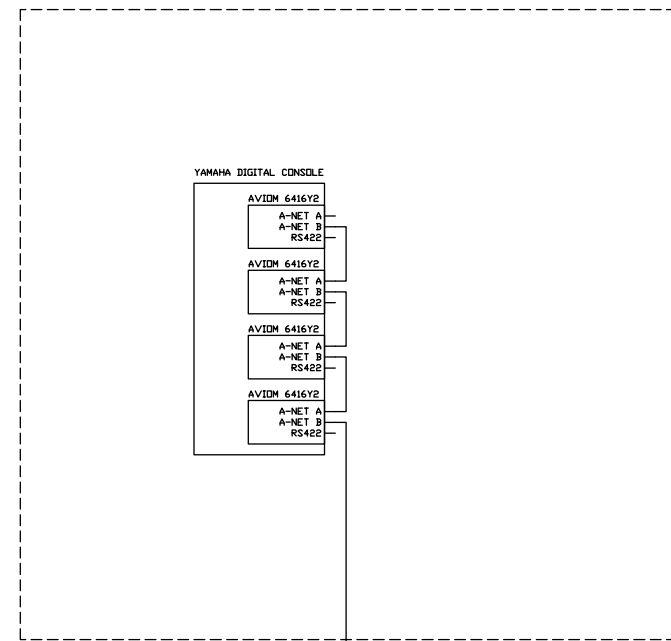
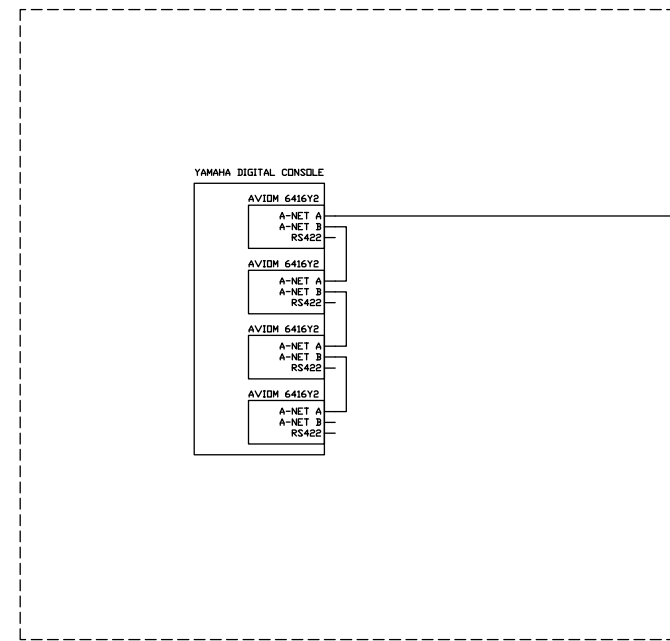
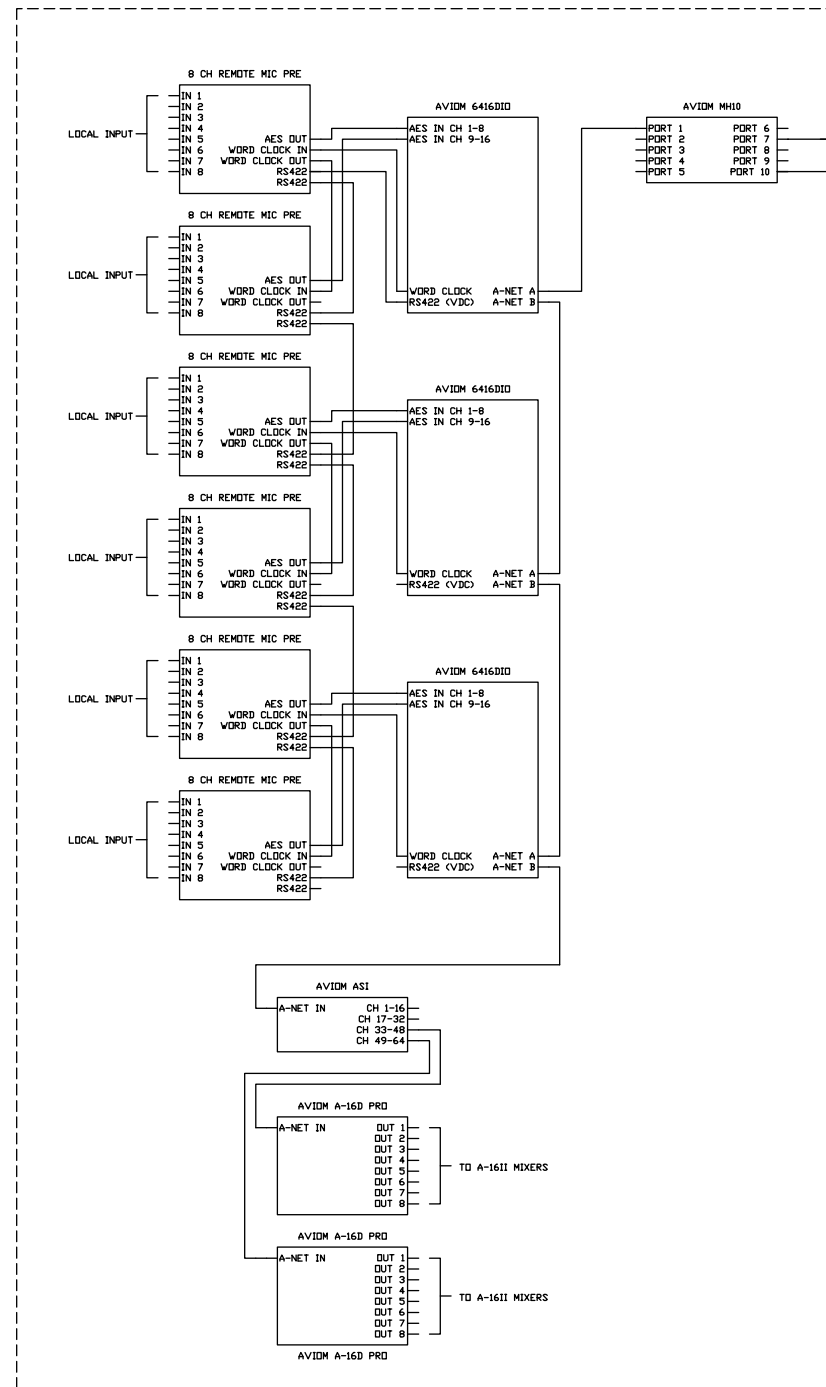
Up to 64 inputs on stage are provided through two 6416m Mic Input Modules, a 6416i Input Module, and a 6416dio Digital I/O Module. These signals are passed digitally to the Yamaha® digital console at FOH, and returns are distributed to the main cluster and delay towers where they are output digitally via 6416dio modules. In addition, three separate 16-channel monitor feeds are passed to Aviom Personal Mixers on stage through the ASI A-Net Systems Interface.

PRO64 OUTDOOR CONCERT		
SYSTEM LINE DWG		A/V
AVIOM		1.7
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STAGE

FOH POSITION

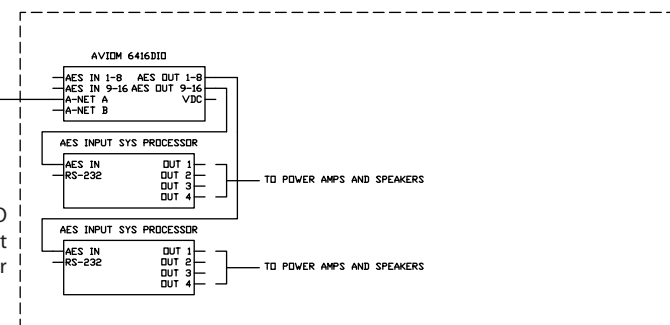
POST PRODUCTION



TO-ADDITIONAL ROOM


MONITOR POSITION

LIVE TV MIX - PRODUCTION



AMP ROOM

AUDIO NETWORK AND MONITOR SYSTEM FOR PERFORMANCE & BROADCAST
 Forty-eight channels of inputs on stage are provided via three 6416dio Digital I/O Modules connected to external remote control mic pres. These signals are output digitally at the four mix locations. Returns from FOH, as well as two 16-channel monitor feeds, are transported back to the stage on the same cables.

BROADCAST PERFORMANCE SYS		
SYSTEM LINE DWG		
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		A/V 1.8