SOUND REINFORCEMENT SYSTEMS

AUDIO & VIDEO SYMBOLS LEGEND

- One-Line Circuit Diagram (circuit pair implied)
- Parallel Connection
- Break Line (intermediate connections/components implied, but not shown; verify intermediate quantity)
- Screw-type Barrier strip connection
- Female XLR Connector
- Male XLR Connector
- 3-Conductor PHONE Jack with insulated bushing
- Female Multi-Pin Connector
- Male Multi-Pin Connector
- Male DT-12 Panel Connector
- Female Neutrik Speak-On Connector
- Male Neutrik Speak-On Connector
- Normally-Open Relay or Switch contact. Switch both sides of audio line.
- Normally-Closed Relay or Switch contact. Switch both sides of audio line.
- Shunt Resistor across audio circuit
- Shunt Resistor through Normally Closed Relay or Switch Contact.
- Rotary Potentiometer with resistance noted audio (log) taper unless noted otherwise.
- Resistor connected in both high and low sides of audio line.
- Resistor connected in high side of audio line only. 1/2 Watt, 5% unless noted otherwise, typical.
- Connection to sheet metal ground.
- Connection to low side of audio circuit.
- EQ — Equalizer or Processor as noted
- PWR — Amplifier. Internal designator denotes function:
  - PWR = Power Amplifier (shown)
  - L = Line Amplifier
  - C = Compressor/Limiter
  - B = Bridging Amplifier
  - V = Voltage Controlled Amplifier
  - P = Preamplifier
- Two-Way Loudspeaker with internal passive crossover, type as specified for each application.
- 8" — Loudspeaker, 8-Inch Coaxial, or size/type as noted on the drawings.
- 600/600 — Line-Matching or Bridging Transformer with impedance ratios indicated.
- A / 3 — Connection Label; Sheet on which connection is continued
- VC — Loudspeaker Volume Control
- RC-1 — Relay Coil (shown: Relay RC-1)
- Indicator, LED, unless noted otherwise
- Extension-type Cable
- Male XLR Receptacle (as shown on panel details)
- Female XLR Receptacle (as shown on panel details)
- Female Combo XLR/Phone Jack Receptacle (as shown on panel details)
- Portable Loudspeaker Speak-On Receptacle (as shown on panel details)
- Female Multi-Pin Audio Receptacle (as shown on panel details)
- Phoenix Connector
- BNC Connector
- Triax Connector
- SMPTE Fiber Panel Fixed Plug
- SMPTE Fiber Panel Fixed Socket
- Fiber ST Connector
- Cable End SMPTE Fiber Connector
- Cable End BNC Connector
- 75 Ohm BNC Terminator
- Device power plugged into unswitched AC Power. All other devices plugged into switched AC Power.
- HD-15 VGA Connector
- 1/8" Stereo Mini Jack
- 1/8" Stereo Mini Plug
- Neutrik Ethercon Connector
- Neutrik Ethercon Connector
- RJ-45 Connector
- Cable End RJ-45 Connector
- RJ-11 Connector
- Cable End RJ-11 Connector
- Color Video Camera
- Color Video Monitor or TV
- TV Camera (hand-held or tripod-mounted), shown for reference only for approximate location to coordinate with nearest camera connection panel (camera equipment by Owner).

CONDUIT/BOX/CABLE LEGEND

CONDUIT AND CABLE CONFIGURATIONS:

- Conduit.
- Conduit with vertical riser (up or down as noted).
- Conduit Stub into an accessible ceiling area, unless noted otherwise.
- Conduit continuing on another drawing as noted.
- Conduit home-run, destination as noted.
- Exposed cable not in conduit. All cables shall be neatly bundled and supported to prevent festooning. Install teflon jacketed cable where run in return-air plenums.
- Exposed cable continuing on another drawing as noted.
- Exposed cable home-run, route and destination as noted.

CONDUIT AND BOX NOTES:

1. All conduit minimum 3/4" diameter unless noted otherwise.
2. Steel conduit shall be used where conduit is noted to contain microphone ("Mic" or "M"- series) circuits. All other conduit may be either metallic or PVC, except where code or structural considerations govern.
3. Maximum of three 90-degree bends or 100 linear feet between pullboxes.
4. Mount all wall boxes to match electrical convenience outlets or 18"AFF (above finish floor), unless noted otherwise.
5. Electrical Contractor installing conduit network shall install pull strings in all conduit.
6. Technical System Contractor shall provide engraved panels and plates for all audio receptacles mounted on wall boxes or in recessed floor boxes.
7. Wall boxes exposed to public view shall be flush-mtd, except where conditions require approved surface-mounting. Conduit in public view shall be concealed, except where conditions require approved surface-mounting.
8. Where loudspeaker enclosures are connected to conduit, the Technical System Contractor shall provide the enclosures for installation by the Electrical Contractor.
9. All Electrical work shall be in accordance with the Division 16 Electrical Specifications.

OUTLET BOX DESIGNATIONS:

The following designators located within a wiring symbol denote the function of the outlet box:

A	Assorted functions at one location. I.E.: Mic and Line Level.
AC	AC Power
B	Stainless steel blank cover by contractor installing conduit system (future or temporary use).
C	Control. Mount to avoid conflict with room light On/Off switch, and at height as noted on drawings.
IC	Intercom
J	Junction. Blank cover by contractor installing conduit.
L	Line Level
M	Microphone Level
P	Projector (video)
PB	Pullbox. Blank cover by contractor installing conduit.
R	RF-Related (Antenna for Wireless Mic or Assistive Listening System)
S	Loudspeaker (LS) Level
SLC	Sequencing Load Center (for AC Power)
T	Transformer (for AC Power)
V	Loudspeaker Volume Control. Mount to avoid conflict with room light On/Off switch, and at height as noted on drawings.

BOXES, CABINETS, AND WIRING SYMBOLS:

- S — Package loudspeaker assembly, surface-mounted, type as specified for each application, by Technical System Contractor.
- 6 — Ceiling Loudspeaker Enclosure for 6-inch loudspeaker; flush-mounted in finished ceilings or surface-mounted at exposed ceiling structure, as noted, by Technical System Contractor.
- 4" Square box mounted horizontally at ceiling, as noted. Internal designator denotes function.
- Gang box flush-mounted in wall. Outlet box cover plate denoted by subscript indicating number of ganged openings (2g, 3g, etc.). No subscript indicates single-gang opening. Single-gang and 2-gang outlet boxes shall use a 4-inch square box with appropriate single or dual device cover to provide minimum 2-3/4" depth.
- Wall-mounted box/cabinet. Type, size, and mounting method as indicated on the drawings. Internal designator denotes box function.
- Wall-mounted box, single-gang, with duplex AC outlet, 120VAC, 20AMP. If not otherwise noted, home-run circuit in conduit (size as req'd) to nearest available electrical room panel board, as approved.
- Flush-mounted heavy-duty floor box with hinged lid having cable exit notches: Altman model FF-701-4-BLANK (Nominal size: Box 13.75"X9.75"X10.75"DEEP; LID 14.5"X11.25"X3/8"THICK), www.altmanlighting.com; or approximately equivalent Strand model 96207, www.strandlighting.com/us. Box orientation in floor shown on plan with cable notches toward user, and as approved prior to installation. Box & hinged cover furnished and installed by electrical contractor. Internal audio connection plate type/size as required, by Technical System Contractor. Electrical Contractor responsible for all coordination as required. Assure box & lid assembly installed flush with finished floor.
- Flush floor box, FSR-500P 6-inch deep model (10"X12"X6"D) with concrete pour pan and carpet-insert type cover. Verify box location in floor so that box and open cover clear operable partition (where applicable). Electrical Contractor shall provide floor box & cover, 20-AMP 120VAC duplex outlet & plate, and internal partitions. Technical System Contractor shall provide audio receptacles/plates.

GENERAL COORDINATION NOTES:

1. Work involving the furnishing & installation of sound & audio/video system equipment in these documents, shall be performed by the using agency's Technical System Contractor. Using agency will separately award such work to Technical System Contractor.
2. The project Electrical Contractor shall furnish and install the complete conduit & electrical infrastructure, to include: conduit, boxes, AC power circuits, insulated ground wires, transformer, sequencing load center, interface with building power, and as shown or noted on the drawings.
3. The Technical System Contractor shall furnish all sound & audio/video system equipment & materials (electronic components, equip. racks, loudspeakers, projectors, low-voltage audio & video signal & control circuit wiring, connectors, etc.), per the sound & audio/video system drawings & specifications.
4. The Technical System Contractor shall coordinate the sound & audio/video system installation work with other trades (ceiling; electrical; mechanical, etc.) involved with the project.
5. This sheet shall be used only to reference conduit & electrical infrastructure supporting the sound & audio/video systems, and to reference the sound & audio/video systems themselves. Refer to other project drawings (architectural, electrical, mechanical, etc.) for other building systems, as required to coordinate with the installation of the conduit & electrical infrastructure, and with the sound & audio/video systems.

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SV101D	Event Level - Area D
SV101E	Event Level - Area E
SV102A	Concourse Level - Area A
SV102B	Concourse Level - Area B
SV102C	Concourse Level - Area C
SV102D	Concourse Level - Area D
SV103	Catwalk Level - Speaker Plan
SV104	Catwalk Level - Intercom Plan & Future Video Projection
SV111A	Event Level Reflected Ceiling Plan - Area A
SV111D	Event Level Reflected Ceiling Plan - Area D
SV111E	Event Level Reflected Ceiling Plan - Area E
SV112A	Concourse Level Reflected Ceiling Plan - Area A
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SV112C	Concourse Level Reflected Ceiling Plan - Area C
SV112D	Concourse Level Reflected Ceiling Plan - Area D
SV112E	Concourse Level Reflected Ceiling Plan - Area E
SV301	Building Sections; Speaker Installation Notes
SV302	Auditorium Enlarged Sections
SV401	Arena Control Room Enlarged Plan & Details
SV402	Arena Mech. Rm. Plan; Rack Detail; AC Power Diagram
SV403	Conference Center AC Power Diagram
SV404	Auditorium Sound Booth Enlarged Plan & Details
SV405	Auditorium Section "B" & AC Power Diagram
SV002	Arena Front-End Audio Diagram
SV003	Arena Drive-End Audio Diagram; Intercom Audio Diagram
SV004	Arena Amp Mon.; Truth Table; Ground Scheme; Panel Details
SV005	Arena Panel & Plate Details
SV006	Camera & Broadcast Audio/Video Cable Diagram
SV007	Camera & Broadcast Panel & Rack Details
SV008	Auditorium Front-End Audio Diagram
SV009	Auditorium Drive-End, Amp Mon. & Intercom Audio Diagrams
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SV012	Arena Conceptual IPS Layout
SV013	Auditorium & Lobby Conceptual IPS Layout
SV014	IPS Logic/Control Wiring Schematic

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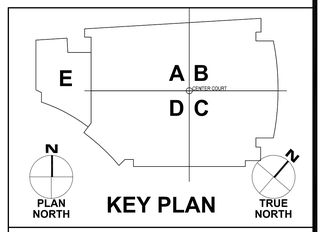

	DESCRIPTION		DESCRIPTION

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SHEET INDEX; SYMBOLS

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV001
CHECKED BY: IRW	SCALE: No Scale	

ADG 06289

SOUND REINFORCEMENT SYSTEMS

AUDIO & VIDEO SYMBOLS LEGEND

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SV013	Auditorium & Lobby Conceptual IPS Layout
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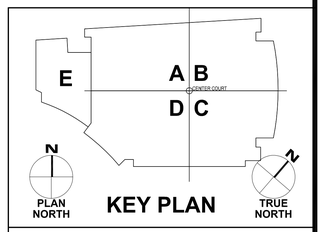

	DESCRIPTION		DESCRIPTION

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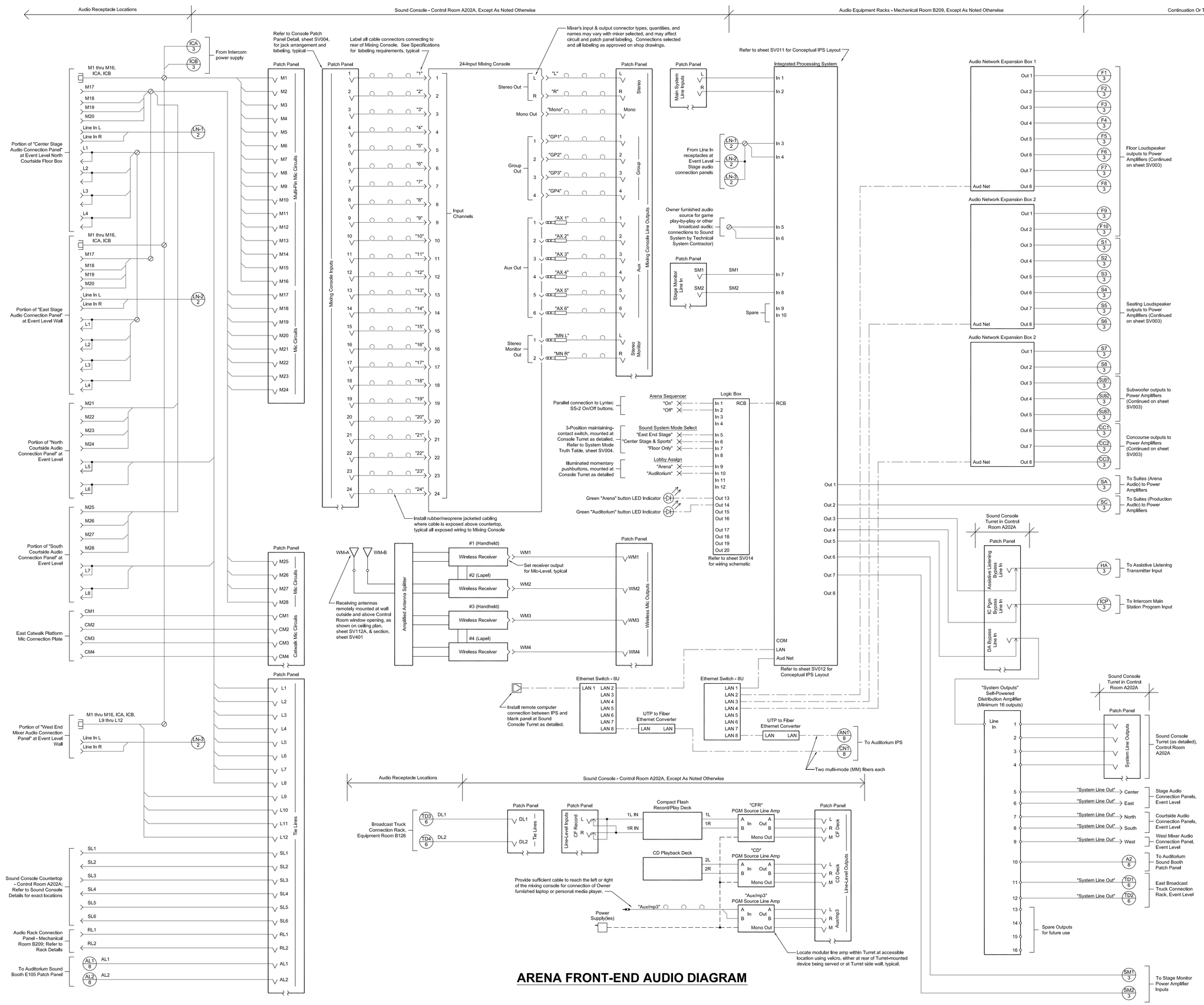
INDIANA COUNTY, INDIANA, PENNSYLVANIA

SHEET INDEX; SYMBOLS

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV001
CHECKED BY: IRW	SCALE: No Scale	

ADG 06289



ARENA FRONT-END AUDIO DIAGRAM

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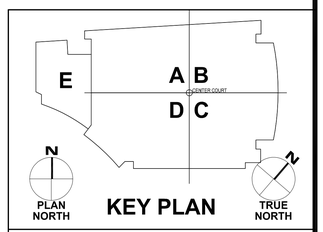

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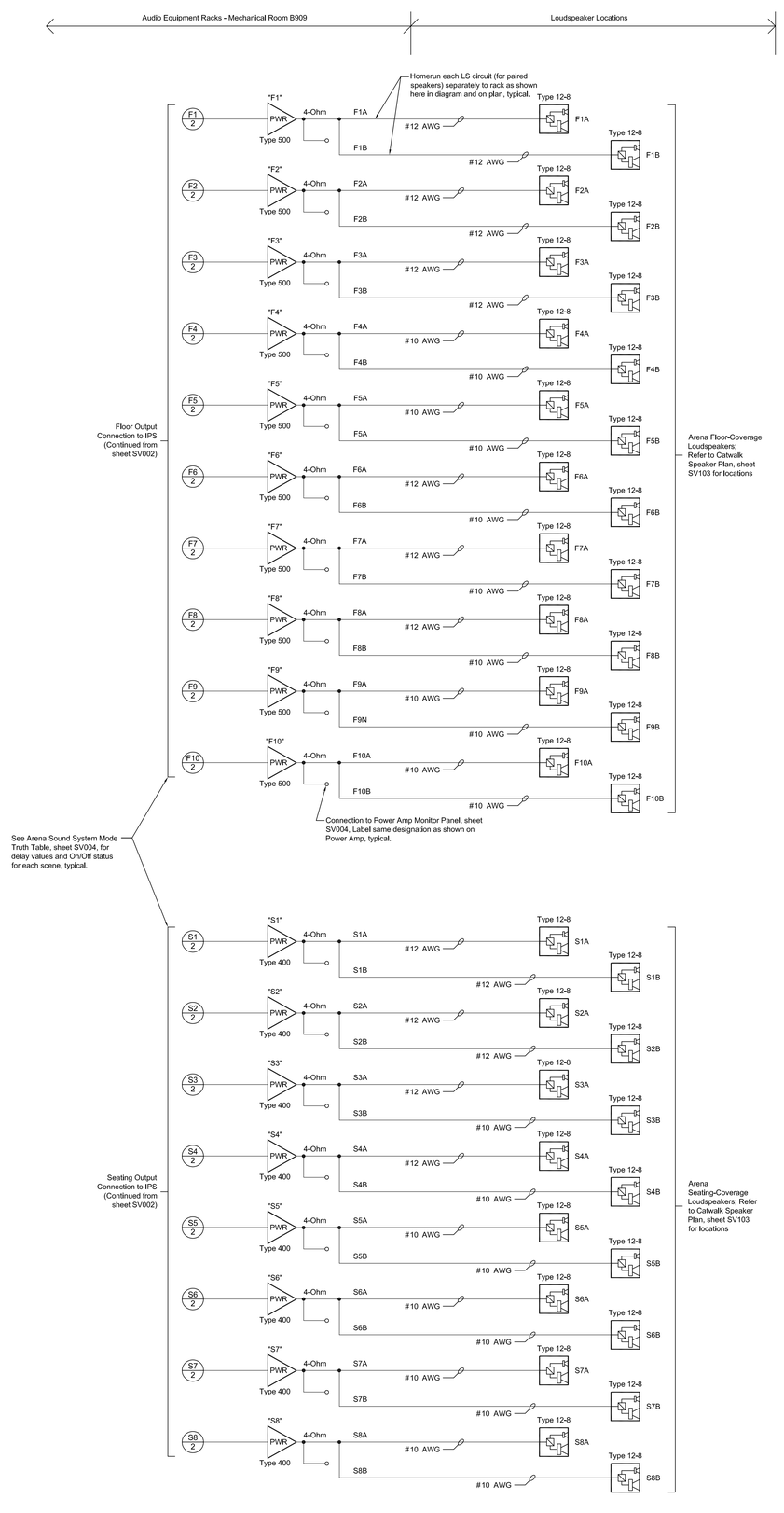
CONVOCATION CENTER
INDIANA COUNTY, INDIANA, PENNSYLVANIA

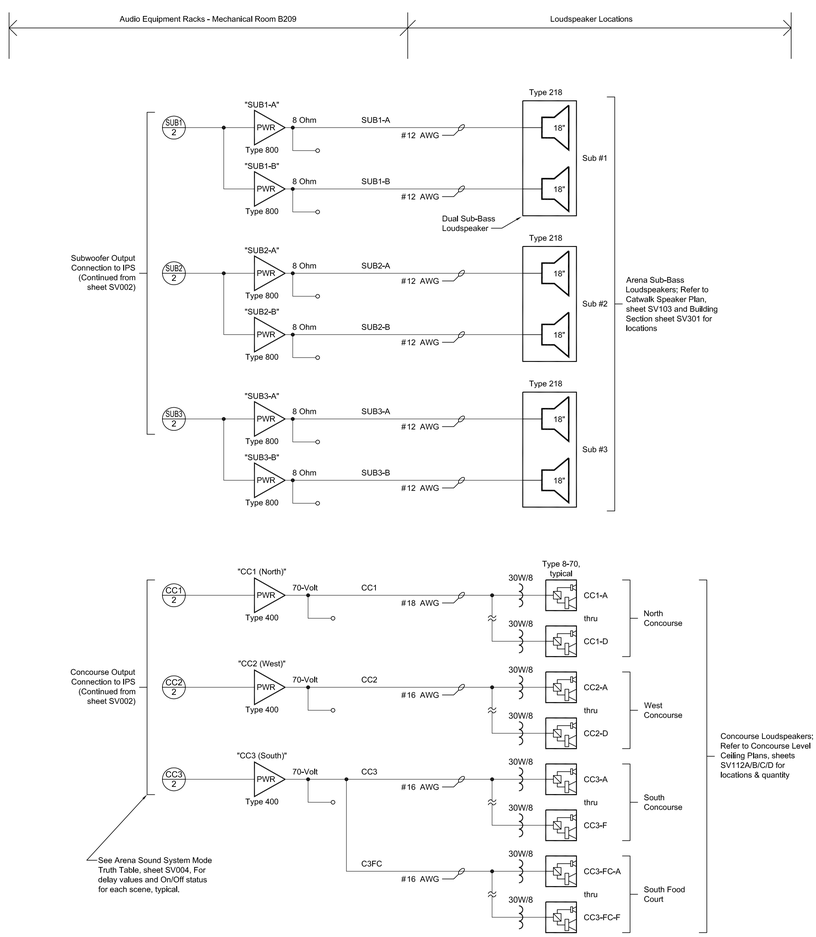
ARENA FRONT-END AUDIO DIAGRAM

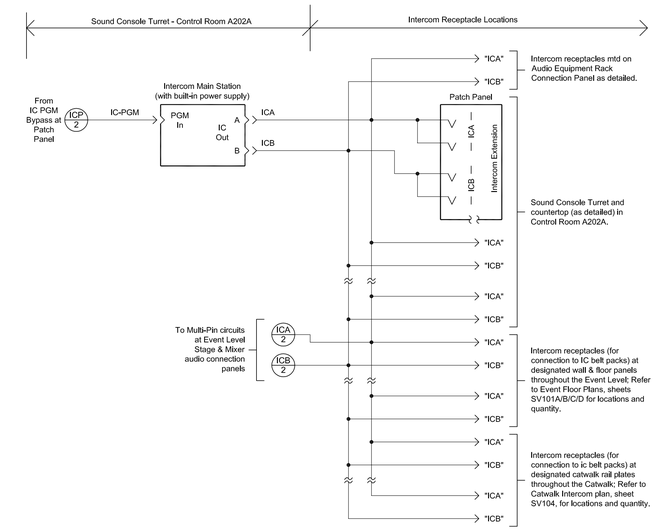
DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV002
CHECKED BY: IRW	SCALE No Scale	

ADG 06289

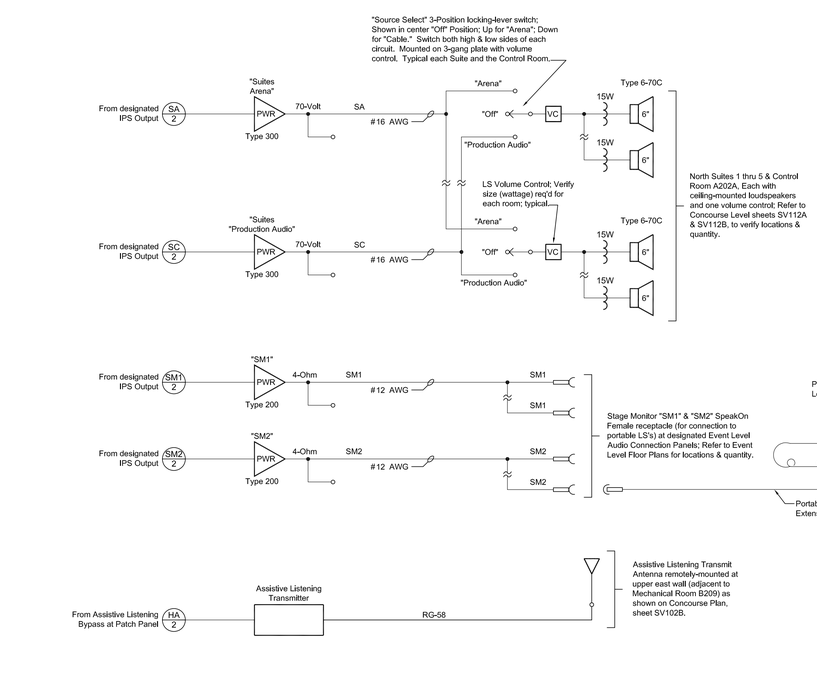


ARENA DRIVE-END AUDIO DIAGRAM





ARENA INTERCOM AUDIO DIAGRAM



ARENA DRIVE-END AUDIO DIAGRAM

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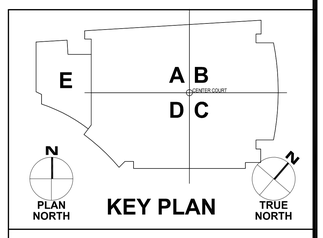
email: adg@adgkc.com



	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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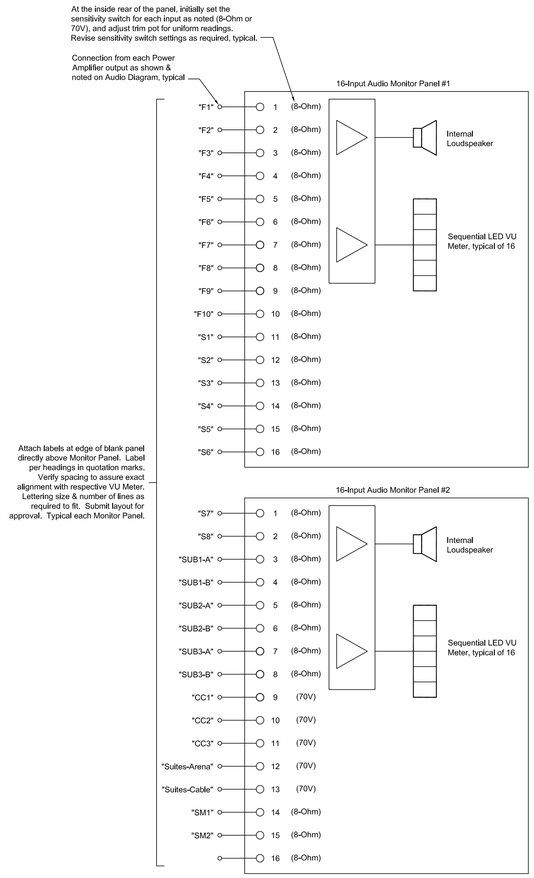
ARENA DRIVE-END AUDIO DIAGRAM; INTERCOM DIAGRAM

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV003
CHECKED BY: IRW	SCALE: No Scale	

ADG 06289



ARENA POWER AMP MONITOR PANEL AUDIO DIAGRAM

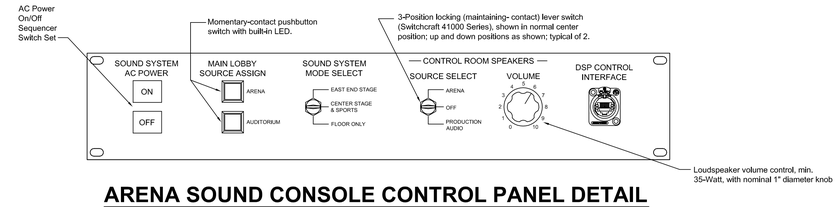
- Located in Audio Equipment Racks, Mechanical Room B209, Concourse Level, as detailed.

"Sound System Mode Select Switch" Positions

		"Center Stage & Sports" Scene #1 (Default - Switch Center Position)	"East Stage" Scene #2 (Switch Up Position)	"Floor Only" Scene #3 (Switch Down Position)
Floor-Coverage Loudspeakers	"F1"	15 ms	0 ms	0 ms
	"F2"	0 ms	0 ms	0 ms
	"F3"	0 ms	15 ms	0 ms
	"F4"	0 ms	25 ms	0 ms
	"F5"	15 ms	35 ms	0 ms
	"F6"	20 ms	20 ms	0 ms
	"F7"	15 ms	20 ms	0 ms
	"F8"	10 ms	30 ms	0 ms
	"F9"	10 ms	35 ms	0 ms
	"F10"	20 ms	40 ms	0 ms
Seating-Coverage Loudspeakers	"S1"	30 ms	0 ms	OFF
	"S2"	45 ms	35 ms	OFF
	"S3"	40 ms	35 ms	OFF
	"S4"	40 ms	40 ms	OFF
	"S5"	40 ms	45 ms	OFF
	"S6"	45 ms	50 ms	OFF
	"S7"	45 ms	55 ms	OFF
	"S8"	40 ms	50 ms	OFF
Sub-Bass Loudspeakers	"Sub #1"	ON	ON	OFF
	"Sub #2"	ON	ON	OFF
	"Sub #3"	ON	ON	OFF
Concourse Loudspeakers	"CC1"	60 ms	65 ms	OFF
	"CC2"	65 ms	75 ms	OFF
	"CC3"	50 ms	55 ms	OFF
Suites & Control Room Loudspeakers	"Suites (Arena)"	65 ms	75 ms	OFF

ARENA SOUND SYSTEM MODE TRUTH TABLE

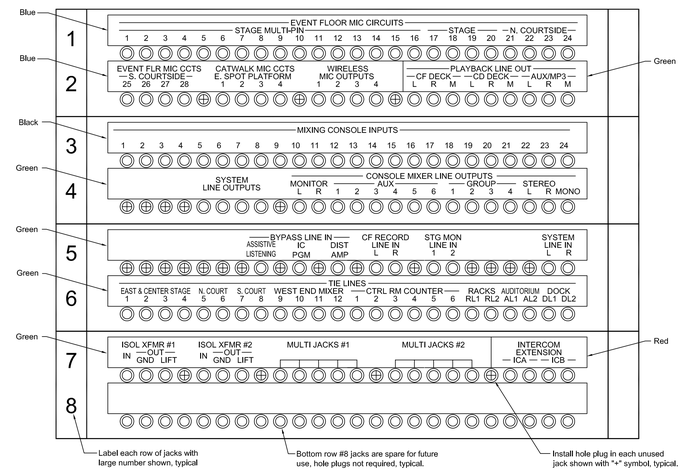
1. Logic Indicated:
   "ms" (Delay in milliseconds & Active).
   "ON" (Active).
   "OFF" (Inactive).
2. Refer to System Mode Select Switch at IPS Diagram, sheet SV002, and at Control Panel Detail, this sheet.
3. Settings shown are tentative; revise as directed during system commissioning.



ARENA SOUND CONSOLE CONTROL PANEL DETAIL

Approx 1/2 Full Size

1. Mounted in Sound Console Turret, Control Room A202A, per Sound Console Details.
2. Similar panel required at top of Arena Audio Equipment Rack No. 1, Mech. Room B209, per rack details, but with only Sound System AC Power, deleting all other controls & labelling.
3. Refer to General Panel & Plate Notes, sheet SV005.



ARENA SOUND CONSOLE PATCH PANEL LAYOUT DETAIL

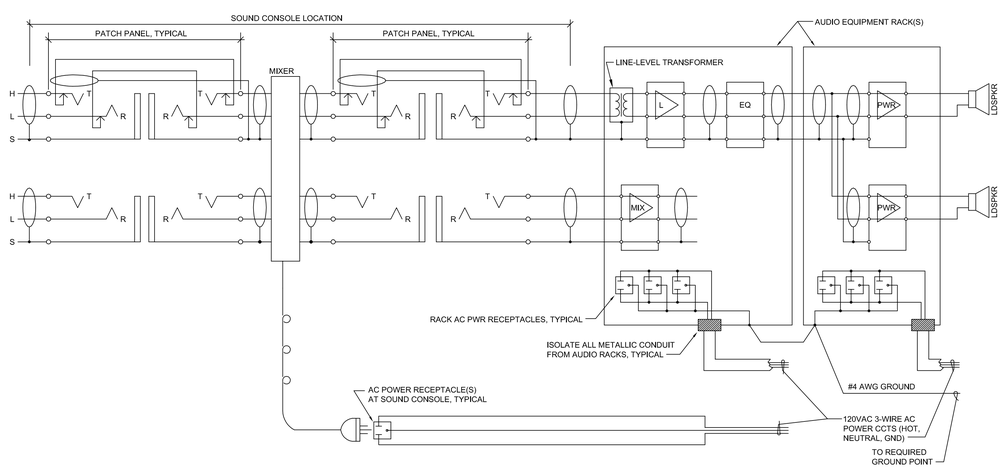
Approx 1/2 Full Size

Mounted in AV Control Room Turret, per Sound Console Turret Details.

PATCH PANEL NOTES:

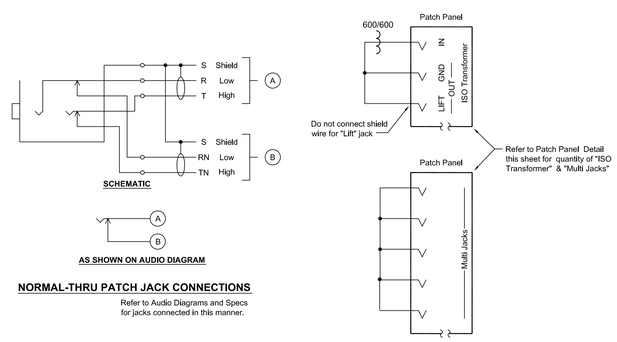
1. Install Patch Panels with the blank space at the top.
2. Engraved or metal-photo nameplates required. See Specifications for nameplate requirements.
3. Submit Shop Drawings for all artwork and labelling.
4. Install Hole Plugs in all unused Patch Panel jacks.
5. Refer to Audio Diagrams for Patch Panel jack wiring details.
6. Patch Panel layouts shown reflect inclusion of all bid items. Furnish panels with nomenclature for all bid items (including alternates) installed or not.
7. Patch Panel labels shall avoid abbreviations where space permits. Abbreviations shown on drawings are for reference only.
8. Color code Patch Panel nameplates as shown with white lettering. Colors shall follow these guidelines:

Mic-Level Circuits:	Blue
Line-Level Circuits:	Green
Intercom Circuits:	Red
Other:	Black



SOUND SYSTEM GROUNDING SCHEME - TYPICAL (PROJECT-WIDE)

1. This Scheme FOR CONCEPT ONLY.
2. Refer to the sound system's audio diagram(s) for exact equipment arrangements; and refer to the Sound System AC Power Diagram & other applicable specified AC Power items, for exact power requirements.
3. Isolate all equipment from conduit and building steel to assure grounding only via ground wire(s) shown.
4. Shown for standard power transformer. If isolation transformer furnished, revise grounding requirements accordingly and as approved.



PATCH PANEL SPECIAL JACK DETAILS

Mounted in Sound Console Turret, as detailed.

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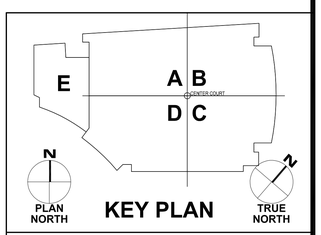

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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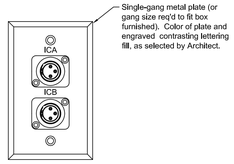
ARENA AMP MON; TRUTH TABLE; GND SCH; PNL DETAILS

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV004
CHECKED BY: IRW	SCALE No Scale	

ADG 06289

GENERAL PANEL & PLATE NOTES

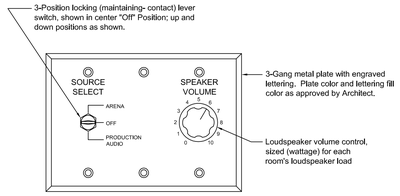
1. Panel and Plate Details shown are FOR CONCEPT ONLY. The Technical System Contractor shall field verify the size of all components and boxes prior to fabrication.
2. The Panel & Plate Details as shown are representative only, and do not show every panel & plate required for this project. The intent is to provide the Technical System Contractor with sufficient information to understand the requirements for panel & plate fabrication.
3. Shop Drawings required for all panels & plates reflecting exact equipment to be furnished regardless of alternates accepted or rejected.
4. Refer to the Specifications for additional panel and nameplate requirements.
5. All gang plates shall be stainless steel with engraved lettering, finish color as selected by Architect.



ARENA INTERCOM RECEPTACLE PLATE DETAIL - TYPICAL

Approx 1/2 Full Size

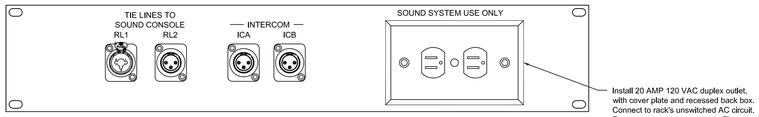
1. Mounted at Catwalk and all Arena plan locations requiring individual ICA & ICB receptacles.
2. Refer to General Panel & Plate Notes, this sheet.



SUITES VOLUME CONTROL PLATE DETAIL

Approx 1/2 Full Size

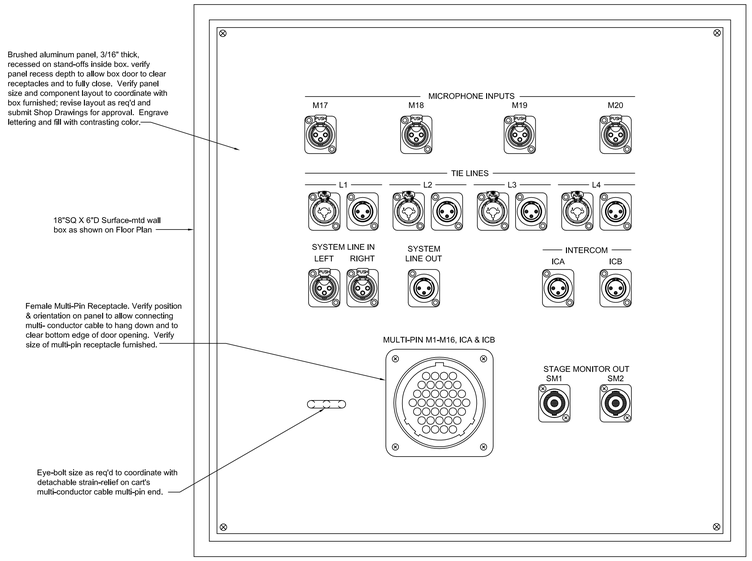
1. Typical for Suites at Concourse Level as shown on plans.
2. Refer to General Panel & Plate Notes, this sheet.



ARENA RACK CONNECTION PANEL DETAIL

Approx 1/2 Full Size

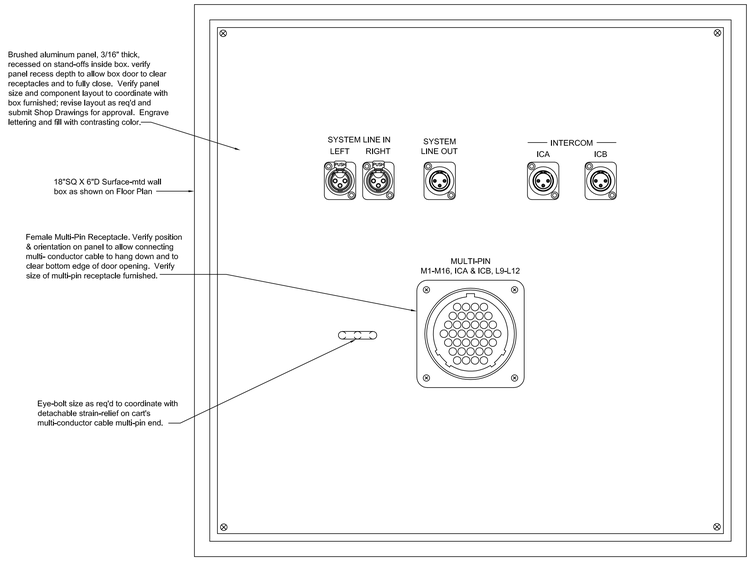
1. Mounted In Audio Equip. Racks, Mech. Room A209, as detailed.
2. Refer to General Panel & Plate Notes, this sheet.



ARENA EAST STAGE AUDIO CONNECTION PANEL DETAIL

Approx 1/2 Full Size

1. Shown for east-end stage wall as shown on Event Level Floor Plan.
2. Receptacle arrangement similar for center stage floor box panel (but re-configure to coordinate with floor box, as approved).
3. Refer to General Panel & Plate Notes, this sheet.



ARENA WEST-END MIXER AUDIO CONNECTION PANEL DETAIL

Approx 1/2 Full Size

- Refer to General Panel & Plate Notes, this sheet.

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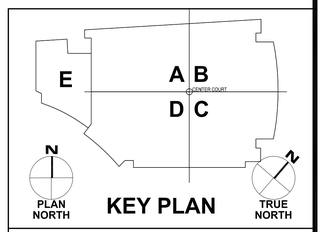

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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ARENA
PANEL & PLATE DETAILS

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GND/EDK	08/05/10	SV005
CHECKED BY: IRW	SCALE: No Scale	

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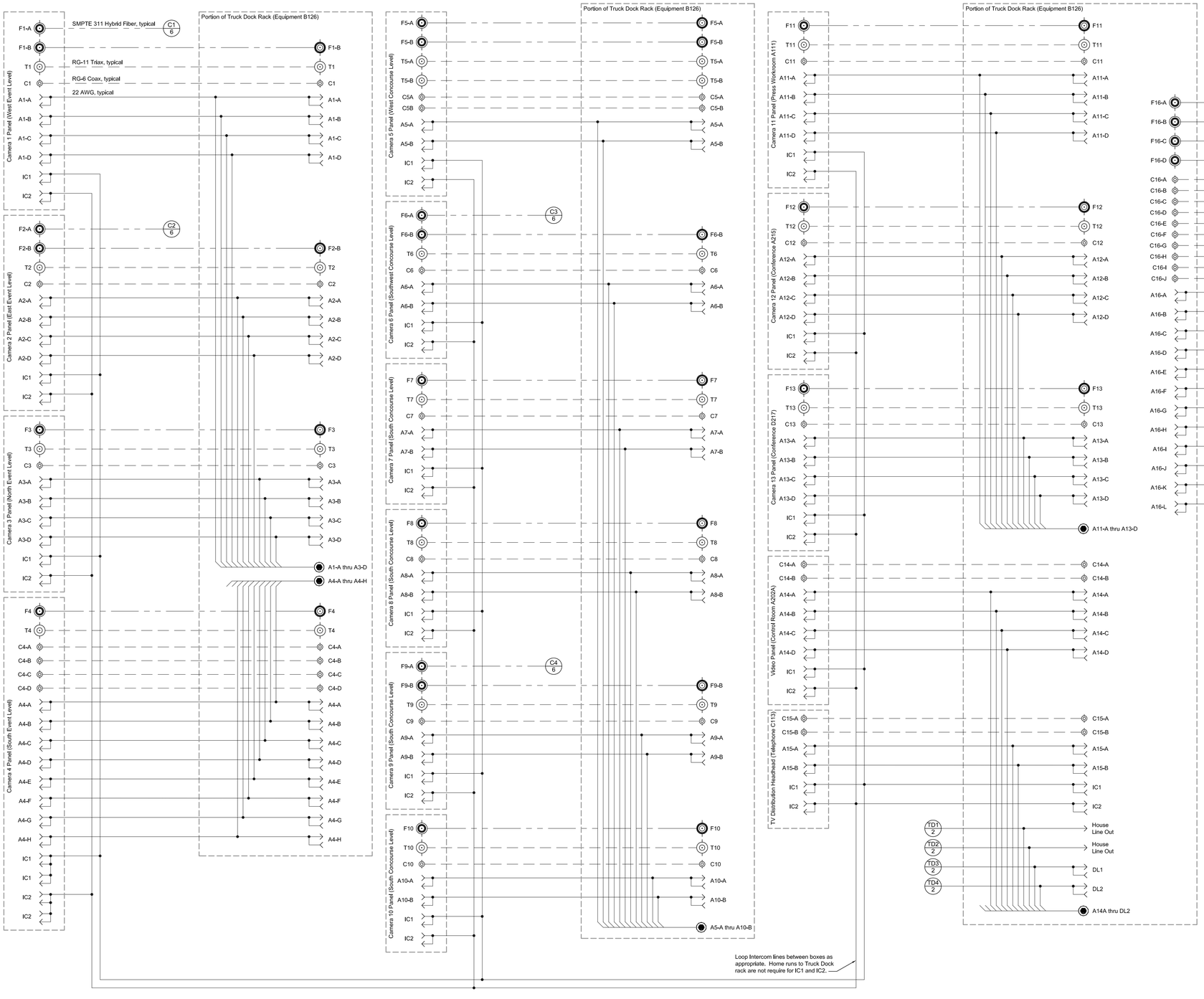

ARENA CAMERA & BROADCAST/PRODUCTION TRUCK DOCK AUDIO/VIDEO CABLE DIAGRAM

Linetype Legend

- Audio Video Network Signal
- Audio Signal
- Control Signal
- Video Signal
- Equipment Outline
- Alternate Outline

Abbreviation Schedule

AV - Audio Video Signal
Cont NET - Control Network Signal
COM - Control Signal (RS232, RS422, RS485)
I/O - I/O Versiports Control Signal
IR IN - Infrared Control Signal
IR/SERIAL - Infrared/Serial Control Signal
LAN - Local Area Network (A/V or IT)
Line - Line Audio Signal
Mic - Microphone Audio Signal
Relay - Isolated Relay Control Signal
RGBHV - RGBHV Video Signal
Stereo - Stereo Audio Signal
S Vid - S-Video Signal
Vid - Composite Video Signal
YPbPr - Component Video Signal

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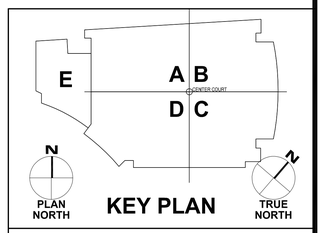

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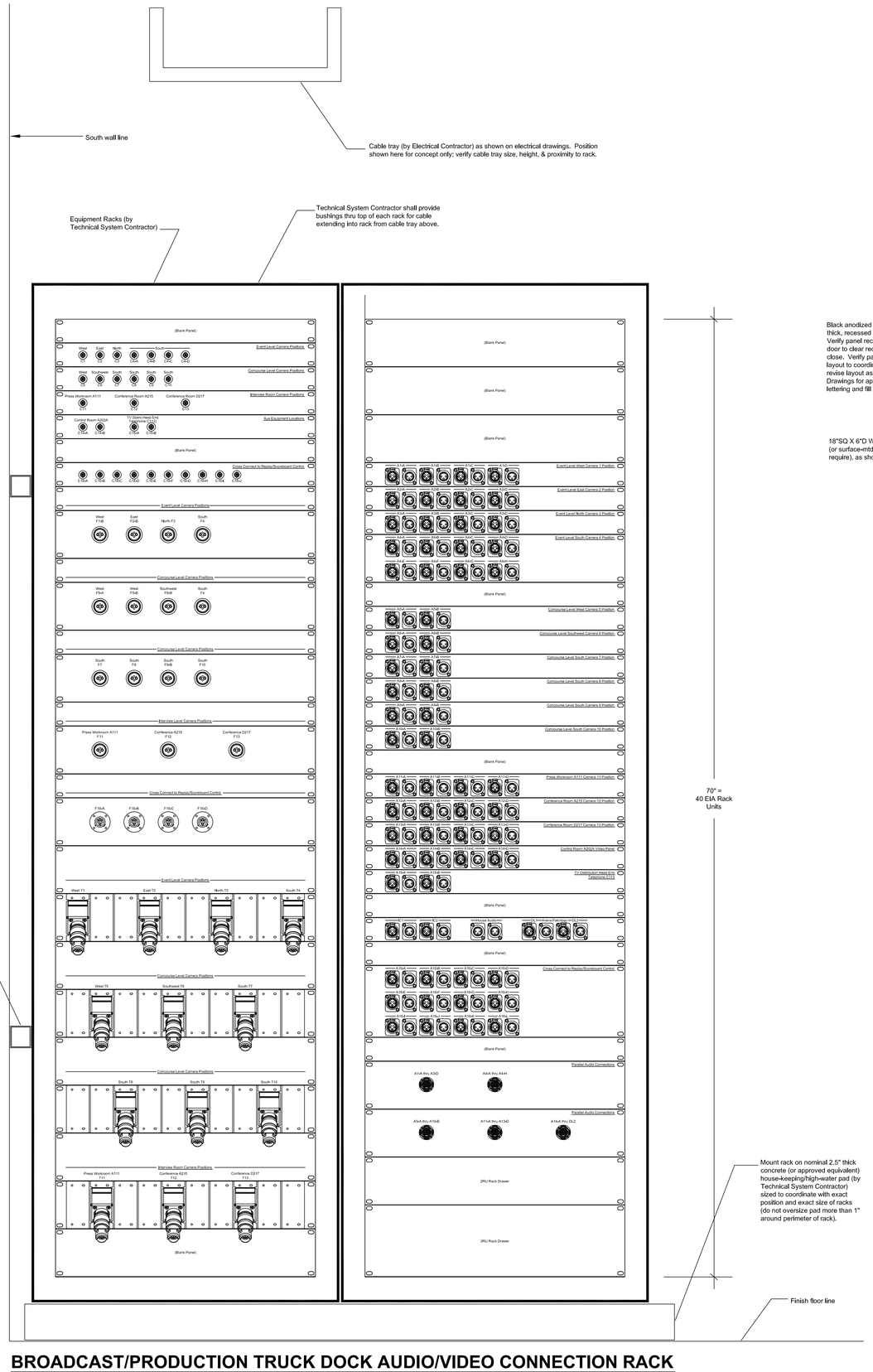
CAMERA & BROADCAST AUDIO/VIDEO CABLE DIAGRAM

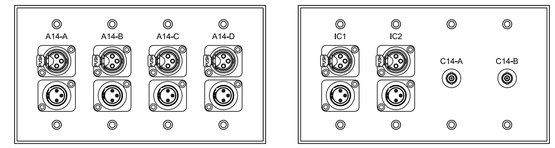
DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV006
CHECKED BY: IRW	SCALE: No Scale	

ADG 06289



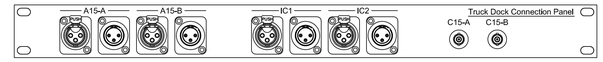
BROADCAST/PRODUCTION TRUCK DOCK AUDIO/VIDEO CONNECTION RACK FRONT ELEVATION DETAIL

Scale 3" = 1'-0" (Looking West)



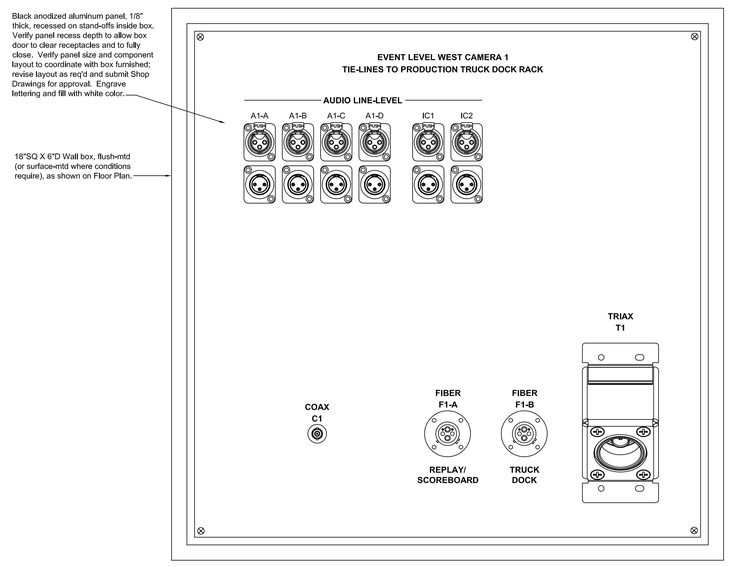
CONTROL ROOM A202A VIDEO CONNECTION PLATE DETAIL

Approx 1/2 Full Size



TV Distribution Head End (Telephone C113) Connection Panel

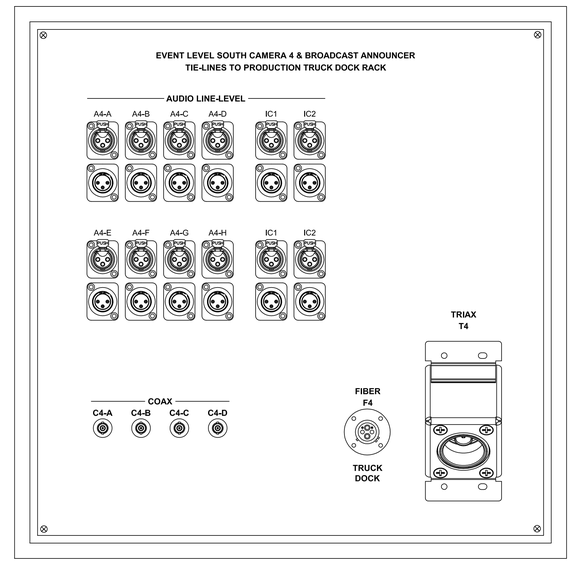
Approx 1/2 Full Size



ARENA CAMERA 1 (WEST) CONNECTION PANEL DETAIL

Approx 1/2 Full Size

1. Shown for Event Level West Camera Position; revise all numbers for each additional Camera Panel; refer to Audio/Video Cable Diagram, and to Event Level & Concourse Level Floor Plans.
2. If Alternate No. 2 (add SMPTE camera cable) is accepted by Owner, revise panel arrangement to accommodate added SMPTE connector. Refer to associated Alternate No. 2 note.
3. Refer to General Panel & Plate Notes, this sheet.



ARENA CAMERA 4 (SOUTH) CONNECTION PANEL DETAIL

Approx 1/2 Full Size

GENERAL PANEL & PLATE NOTES

1. Panel and Plate Details shown are FOR CONCEPT ONLY. The Technical System Contractor shall field verify the size of all components and boxes prior to fabrication.
2. The Panel & Plate Details as shown are representative only, and do not show every panel & plate required for this project. The intent is to provide the Technical System Contractor with sufficient information to understand the requirements for panel & plate fabrication.
3. Shop Drawings required for all panels & plates reflecting exact equipment to be furnished regardless of alternates accepted or rejected.
4. Refer to the Specifications for additional panel and nameplate requirements.
5. All gang plates shall be stainless steel or anodized aluminum with engraved lettering, finish color as selected by Architect.
6. Where room names and numbers are shown on plates, coordinate with Owner so that names reflect final room names and numbers.

EQUIPMENT RACK NOTES:

1. End of rack located against south wall of equipment Room B126 (adjacent to East Broadcast Truck Dock Cable Access Hatch), as shown on Event Level Floor Plan, sheet SV101B.
2. BP = Blank Rack Panel.
   VP = Vent Rack Panel Perforated).
3. Rack layout is FOR CONCEPT ONLY to illustrate design intent. The Technical System Contractor shall verify layout for equipment furnished and submit Shop Drawings.
4. Layout shown is for the convenience of the bidding contractor. If there are differences between this layout and that shown on the Audio Diagrams, the Audio Diagrams shall take precedence.
5. If Alternate No. 2 (add SMPTE camera cable) is accepted by Owner, add rack connection panels and one rack (resulting in a row of two 70" racks). Refer to associated Alternate No. 2 note at cable diagram, this sheet.

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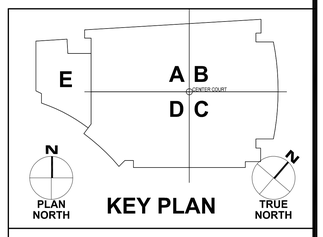

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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CAMERA & BROADCAST PANEL & RACK DETAILS

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GND/EDK	08/05/10	SV007
CHECKED BY: IRW	SCALE No Scale	

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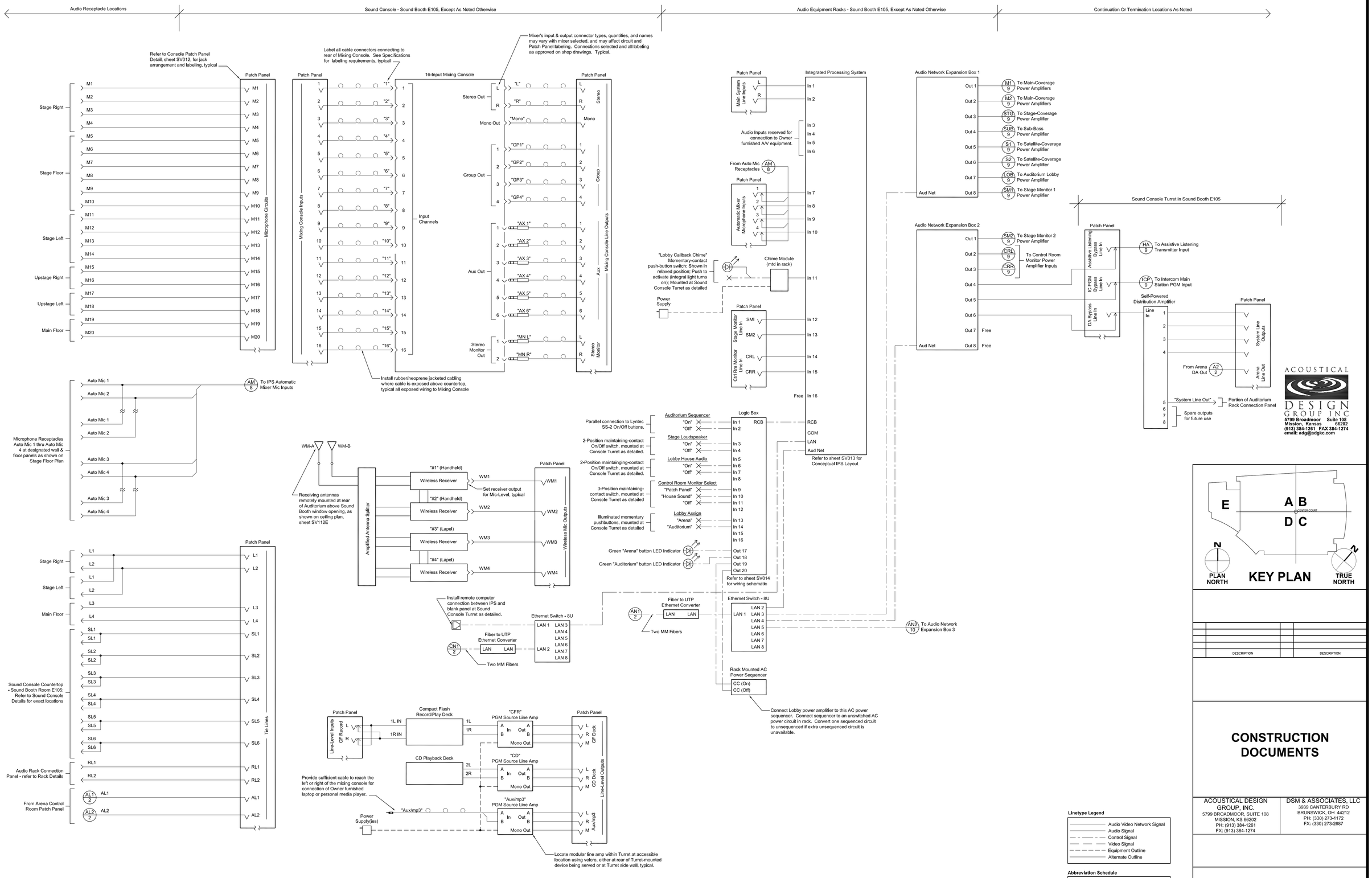

AUDITORIUM FRONT-END AUDIO DIAGRAM

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	DESCRIPTION		DESCRIPTION

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Linetype Legend

- Audio Video Network Signal
- Audio Signal
- Control Signal
- Video Signal
- Equipment Outline
- Alternate Outline

Abbreviation Schedule

AV - Audio Video Signal
Cont.NET - Control Network Signal
COM - Control Signal (RS232, RS422, RS485)
I/O - I/O Versiports Control Signal
IR IN - Infrared Control Signal
IR/SERIAL - Infrared/Serial Control Signal
LAN - Local Area Network (A/V or IT)
Line - Line Audio Signal
Mic - Microphone Audio Signal
Relay - Isolated Relay Control Signal
RGBHV - RGBHV Video Signal
Stereo - Stereo Audio Signal
S Vid - S-Video Signal
Vid - Composite Video Signal
YPbPr - Component Video Signal

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AUDITORIUM FRONT-END AUDIO DIAGRAM

DRAWN BY:	DATE	DRAWING NO.
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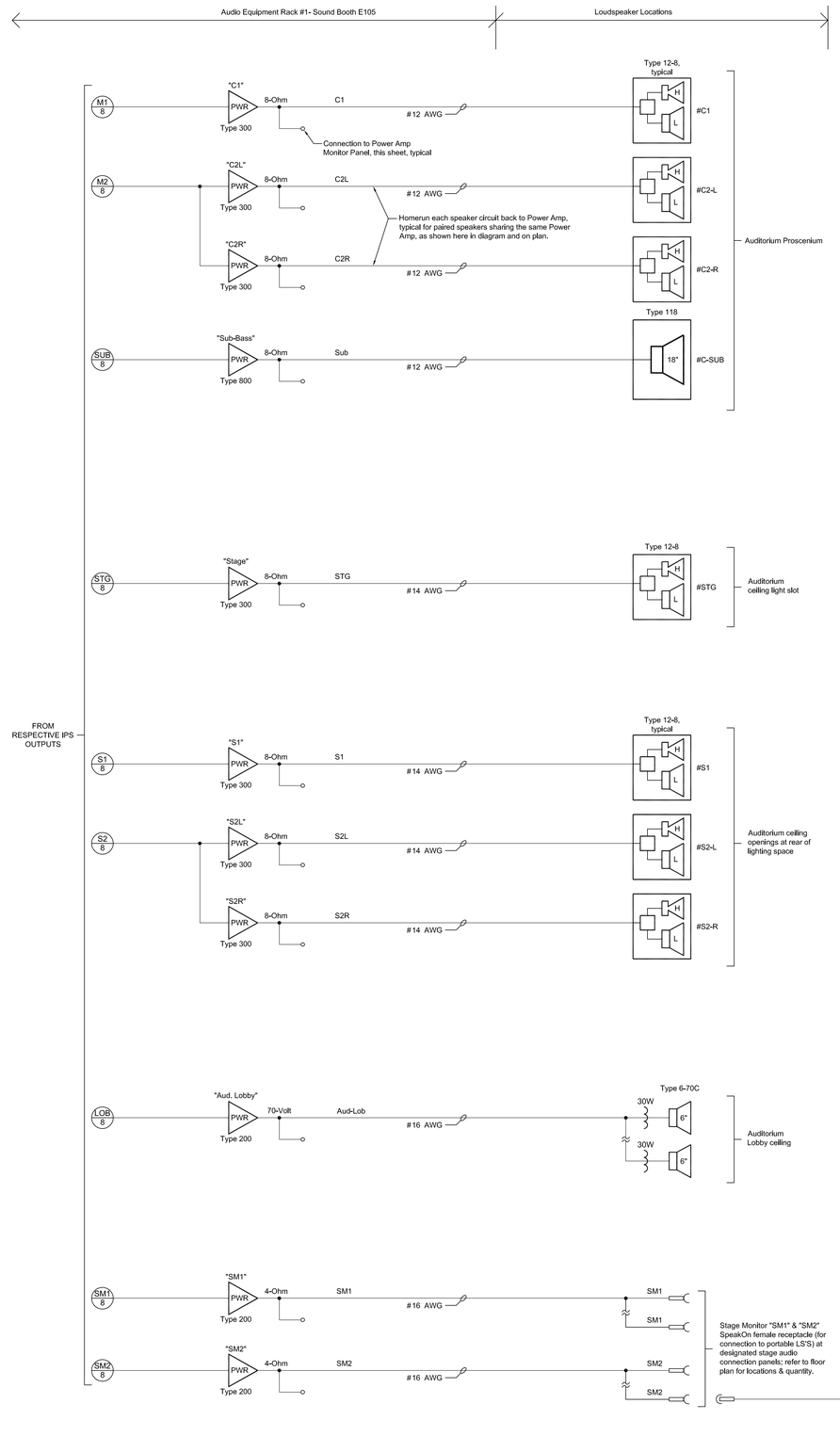
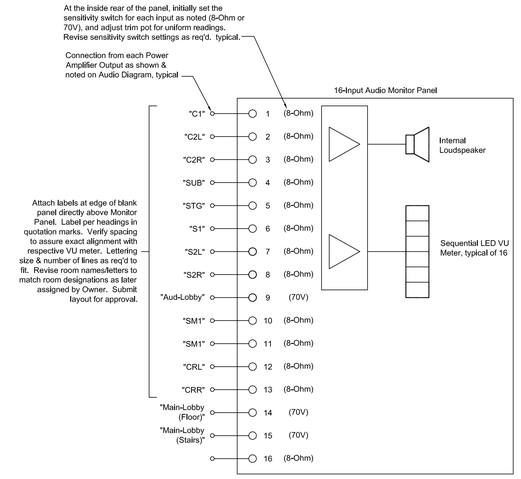
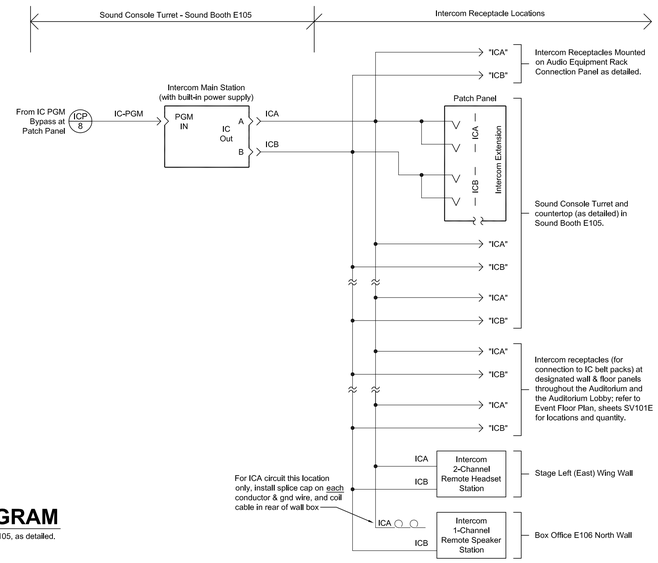


AUDITORIUM DRIVE-END AUDIO DIAGRAM

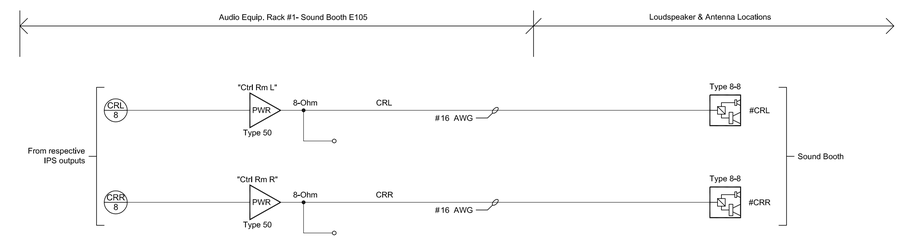


AUDITORIUM POWER AMP MONITOR PANEL AUDIO DIAGRAM

- Located in Rack #1 in Sound Booth E105, as detailed.



AUDITORIUM INTERCOM AUDIO DIAGRAM



Linetype Legend

- Audio Video Network Signal
- Audio Signal
- Control Signal
- Video Signal
- Equipment Outline
- Alternate Outline

Abbreviation Schedule

AV - Audio Video Signal
Cont NET - Control Network Signal
COM - Control Signal (RS232, RS422, RS485)
I/O - I/O Versiports Control Signal
IR IN - Infrared Control Signal
IR/SERIAL - Infrared/Serial Control Signal
LAN - Local Area Network (A/V or IT)
Line - Line Audio Signal
Mic - Microphone Audio Signal
Relay - Isolated Relay Control Signal
RGBHV - RGBHV Video Signal
Stereo - Stereo Audio Signal
S Vid - S-Video Signal
Vid - Composite Video Signal
YPbPr - Component Video Signal

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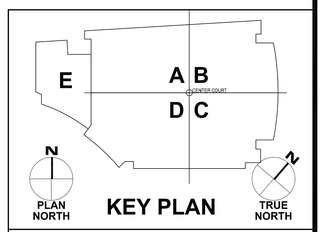

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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AUDITORIUM DRIVE-END AUDIO DIAGRAM

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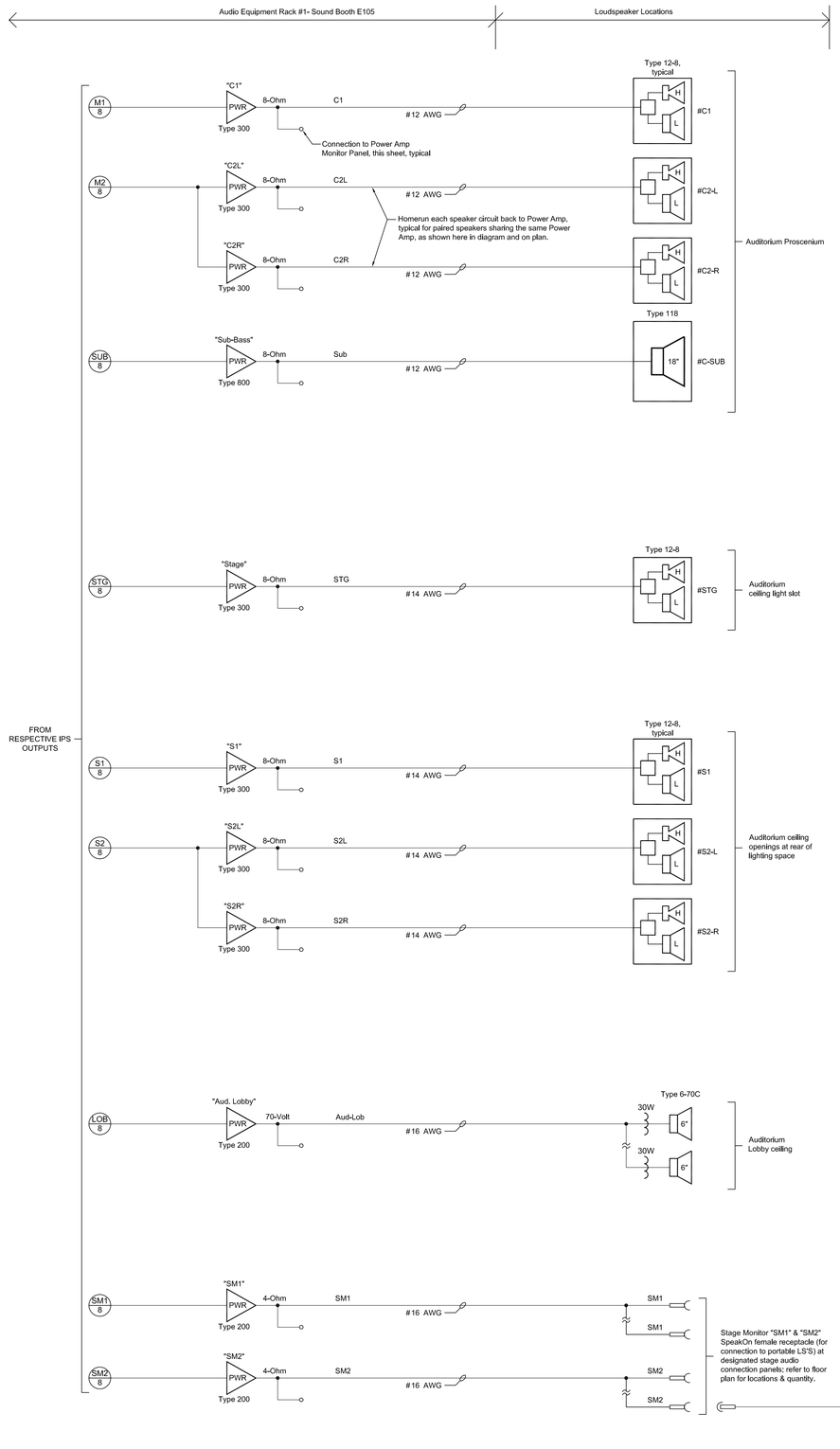
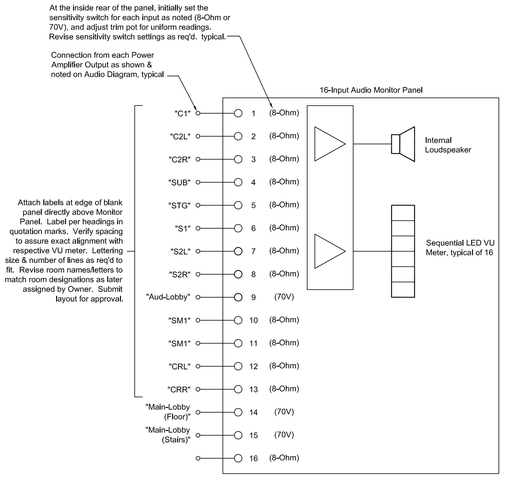
GND/EDK	08/05/10	SV009
CHECKED BY: IRW	SCALE 1.5" = 1'-0"	

ADG 06289

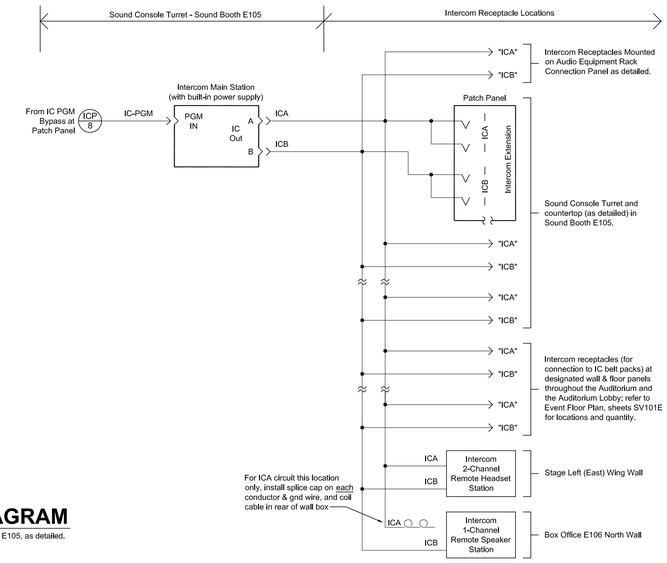


AUDITORIUM DRIVE-END AUDIO DIAGRAM

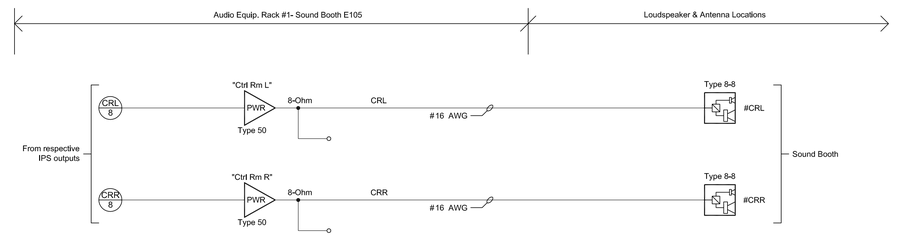


AUDITORIUM POWER AMP MONITOR PANEL AUDIO DIAGRAM

- Located in Rack #1 in Sound Booth E105, as detailed.



AUDITORIUM INTERCOM AUDIO DIAGRAM



Linetype Legend

- Audio Video Network Signal
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Abbreviation Schedule

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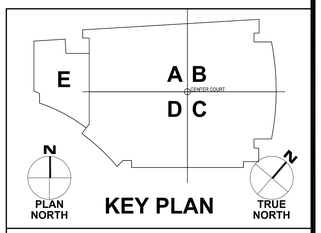

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MAIN LOBBY
AUDIO DIAGRAM

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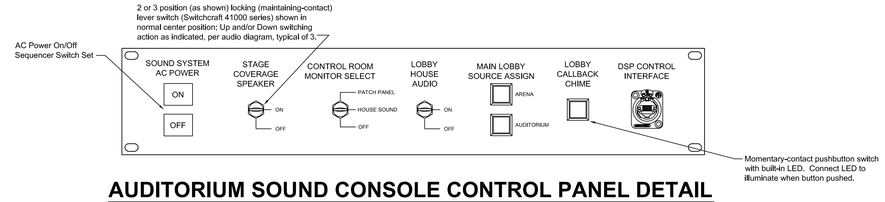
GND/EDK	08/05/10	SV010
CHECKED BY: IRW	SCALE: No Scale	

ADG 06289

GENERAL PANEL & PLATE NOTES

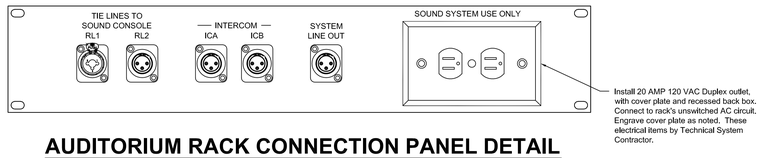
1. Panel and Plate Details shown are FOR CONCEPT ONLY. The Technical System Contractor shall field verify the size of all components and boxes prior to fabrication.
2. The Panel & Plate Details as shown are representative only, and do not show every panel & plate required for this project. The intent is to provide the Technical System Contractor with sufficient information to understand the requirements for panel & plate fabrication.
3. Shop Drawings required for all panels & plates reflecting exact equipment to be furnished regardless of alternates accepted or rejected.
4. Refer to the Specifications for additional panel and nameplate requirements.
5. All gang plates shall be stainless steel with engraved lettering, finish color as selected by Architect.



AUDITORIUM SOUND CONSOLE CONTROL PANEL DETAIL

APPROX 1/2 FULL SIZE

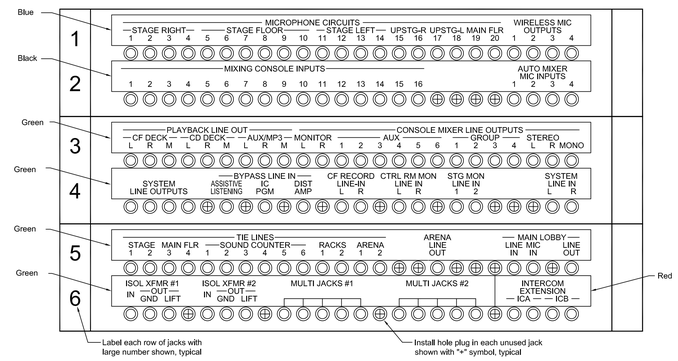
1. Mounted in Sound Console Turret, Sound Booth E105, per Sound Console details.
2. Refer to General Panel & Plate Notes, this sheet.

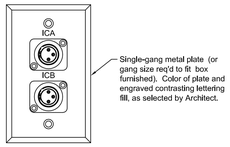


AUDITORIUM RACK CONNECTION PANEL DETAIL

Approx 1/2 Full Size

1. Mounted in Audio Equipment Rack #2 (Turret) as detailed.
2. Refer to General Panel & Plate Notes, this sheet.





AUDITORIUM INTERCOM RECEPTACLE PLATE DETAIL - TYPICAL

Approx 1/2 Full Size

1. Mounted at all plan locations requiring individual ICA & ICB receptacles.
2. Refer to General Panel & Plate Notes, this sheet.

AUDITORIUM PATCH PANEL LAYOUT DETAIL

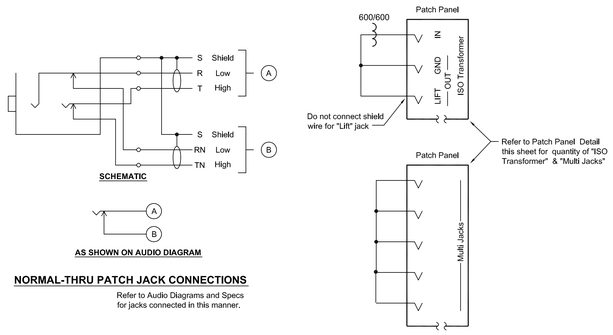
Approx 1/2 Full Size

Mounted in Sound Console Turret in Sound Booth, as detailed.

PATCH PANEL NOTES:

1. Install Patch Panels with the blank space at the top.
2. Engraved or metal-photo nameplates required. See Specifications for nameplate requirements.
3. Submit Shop Drawings for all artwork and labeling.
4. Install Hole Plugs in all unused Patch Panel jacks.
5. Refer to Audio Diagrams for Patch Panel jack wiring details.
6. Patch Panel layouts shown reflect inclusion of all bid items. Furnish panels with nomenclature for all bid items (including alternates) installed or not.
7. Patch Panel labels shall avoid abbreviations where space permits. Abbreviations shown on drawings are for reference only.
8. Color code Patch Panel nameplates as shown with white lettering. Colors shall follow these guidelines:

Mic-Level Circuits:	Blue
Line-Level Circuits:	Green
Intercom Circuits:	Red
Other:	Black

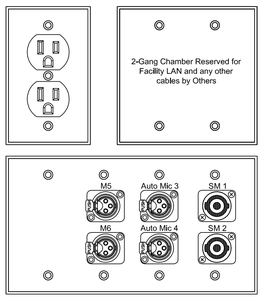


NORMAL-THRU PATCH JACK CONNECTIONS

Refer to Audio Diagrams and Specs for jacks connected in this manner.

PATCH PANEL SPECIAL JACK DETAILS

Mounted in Sound Console Turret, as detailed.

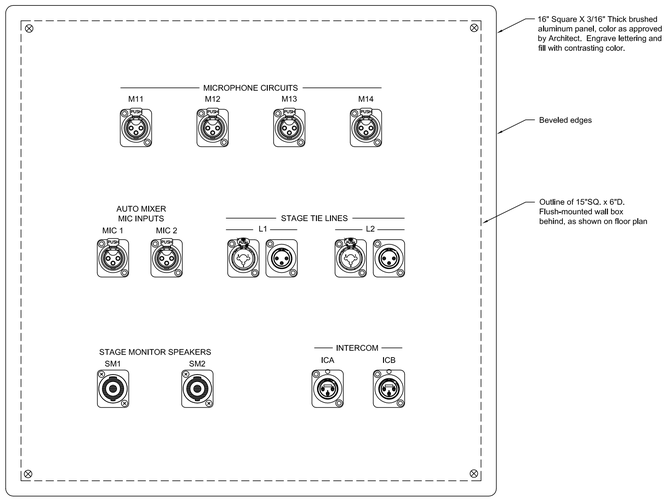


AUDITORIUM FLOOR BOX PLATE DETAIL

Approx 1/2 Full Size

1.) Detail shown for Stage Right Floor Box, modify as needed for other floor boxes.

2.) Refer to General Panel & Plate Notes, this sheet.



AUDITORIUM STAGE LEFT WALL PANEL DETAIL

Approx 1/2 Full Size

1. Panel is shown for Stage Left Wall, per floor plan.
2. Panel similar for Stage Right, but revise panel size to fit (without over-hang) surface-mounted box at railing, and revise circuit numbers per audio diagram or floor plan.
3. Refer to General Panel & Plate Notes, this sheet.

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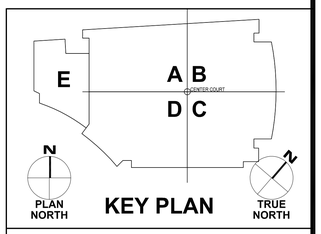

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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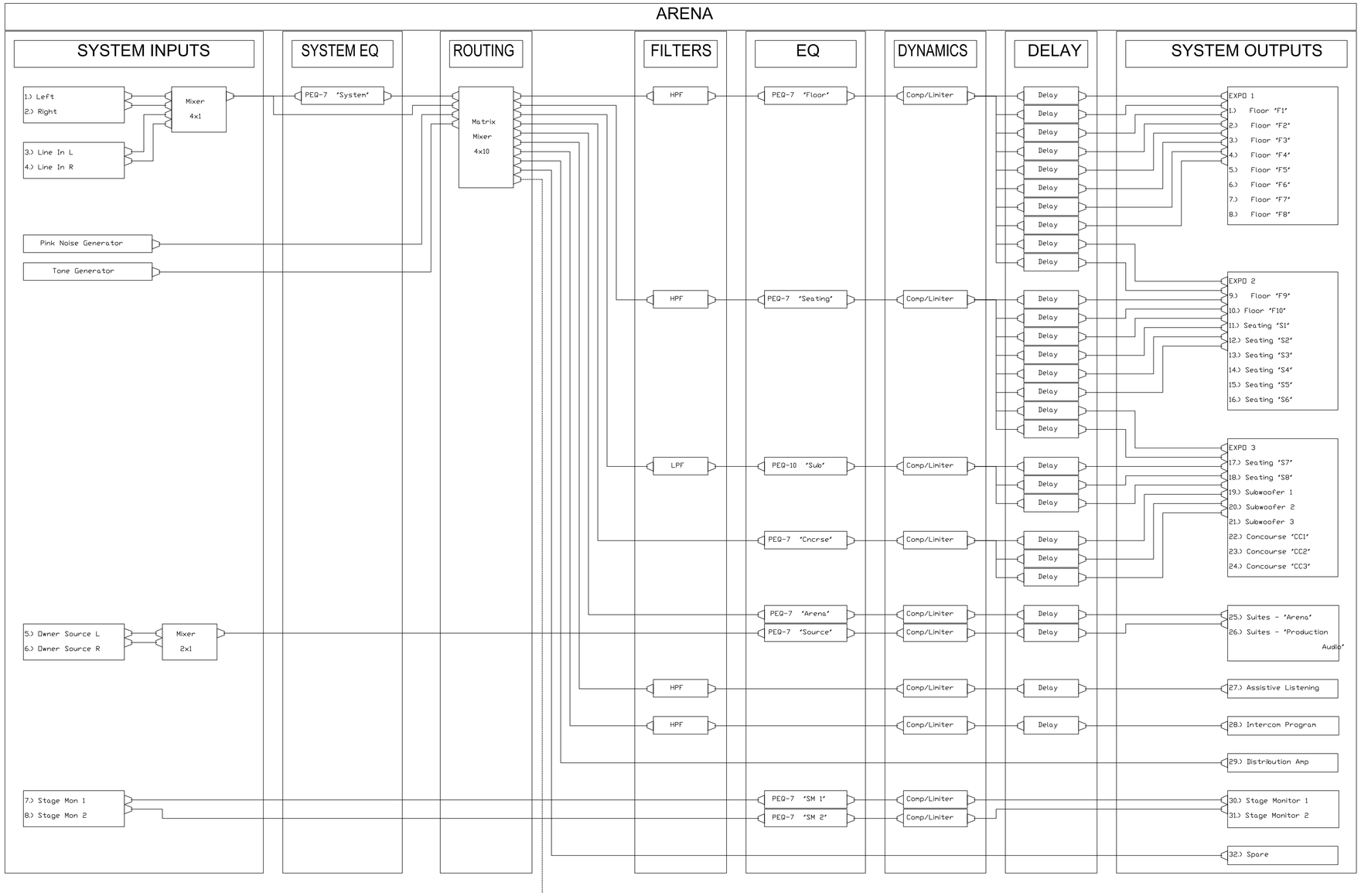
AUDITORIUM & LOBBY PANEL & PLATE DETAILS

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV011
CHECKED BY: IRW	SCALE No Scale	

ADG 06289



ARENA CONCEPTUAL IPS LAYOUT

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5799 Broadmoor Suite 108
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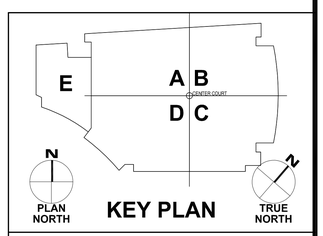

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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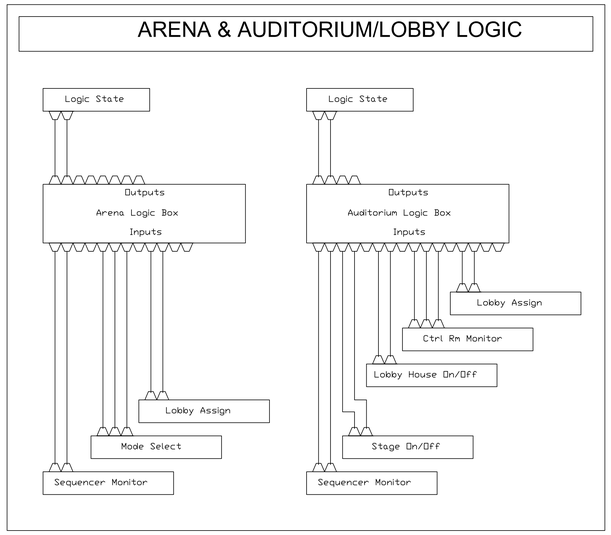
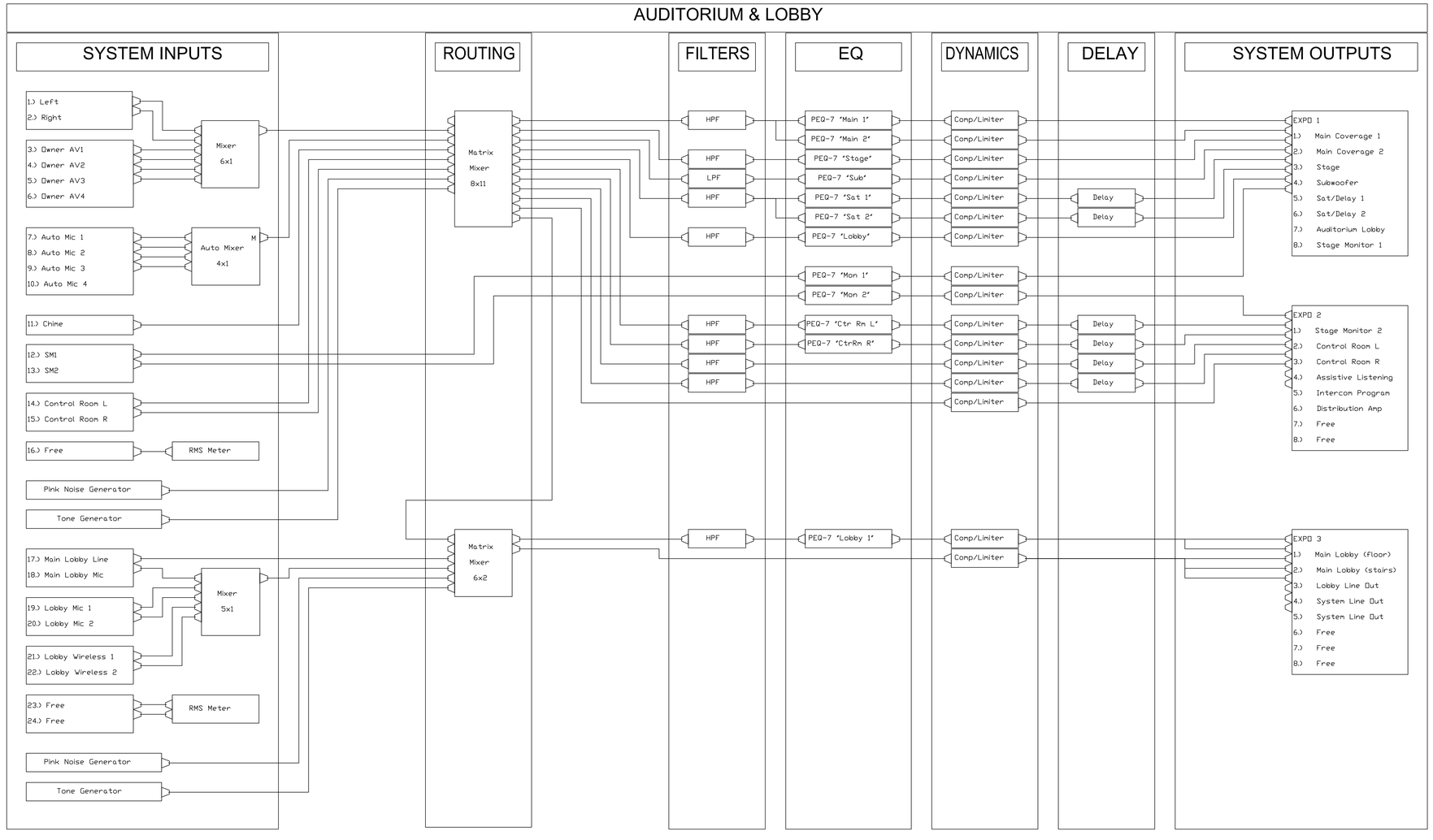
ARENA CONCEPTUAL IPS LAYOUT

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV012
CHECKED BY: IRW	SCALE No Scale	

ADG 06289





AUDITORIUM & LOBBY CONCEPTUAL IPS LAYOUT

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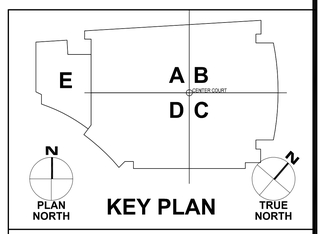

	DESCRIPTION		DESCRIPTION

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AUDITORIUM & LOBBY
CONCEPTUAL IPS LAYOUT

DRAWN BY:	DATE	DRAWING NO.
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CHECKED BY: IRW	SCALE No Scale	

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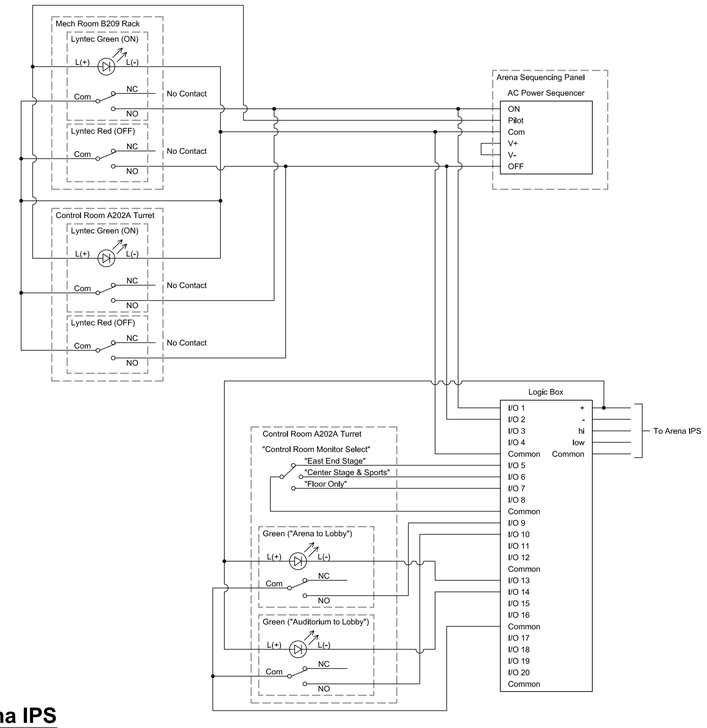
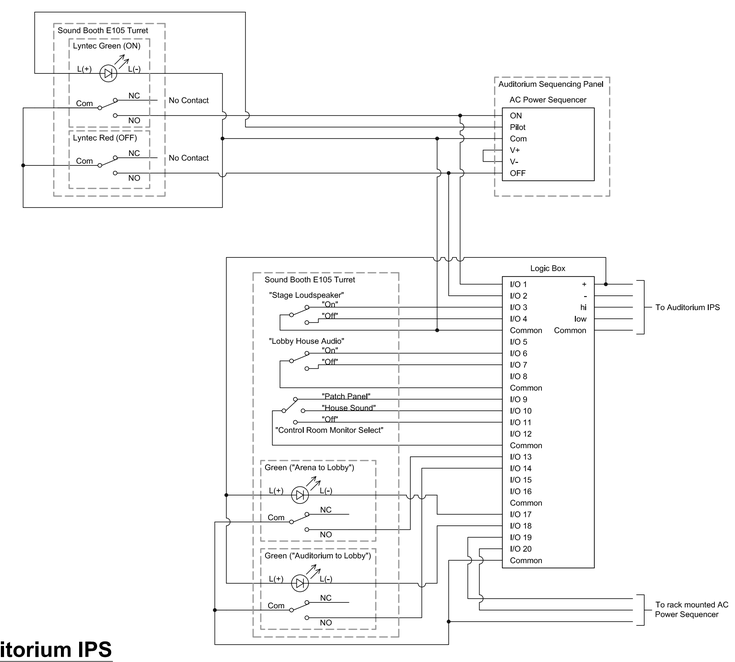
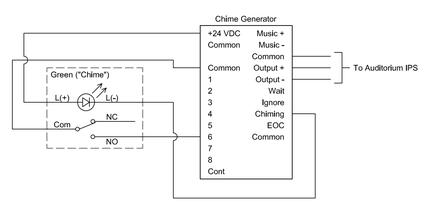


Arena IPS



Auditorium IPS



Auditorium Chime

IPS LOGIC/CONTROL WIRING SCHEMATIC

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Mission, Kansas 66202
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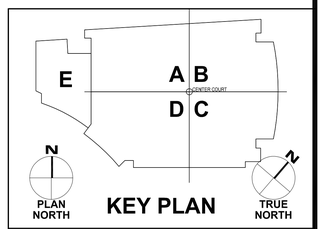
email: adg@adgkc.com



	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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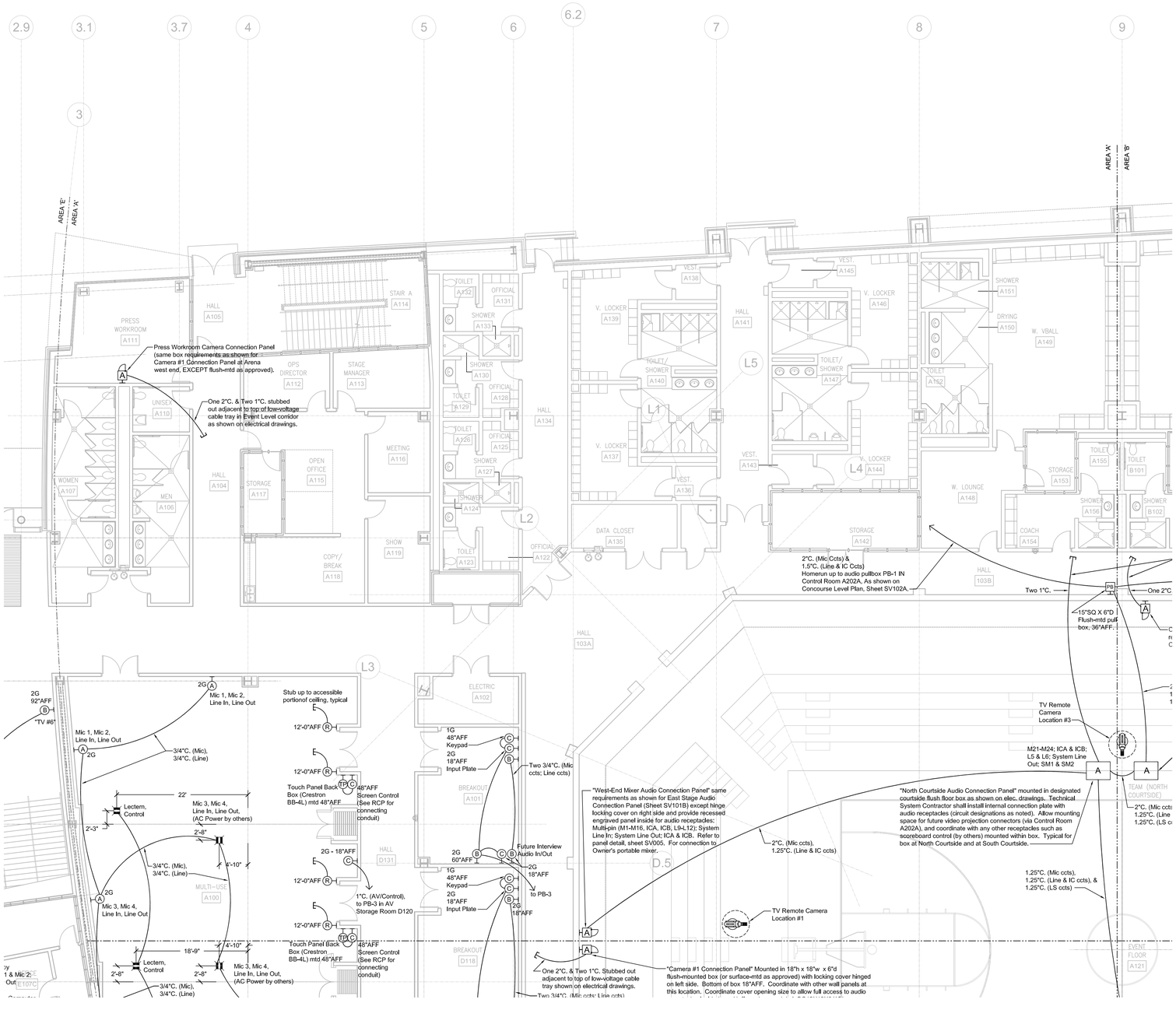
IPS LOGIC/CONTROL WIRING SCHEMATIC

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV014
CHECKED BY: IRW	SCALE: No Scale	

ADG 06289



1 EVENT LEVEL - AREA A
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

1. Work involving the furnishing & installation of sound & audio/video system equipment in these documents, shall be performed by the using agency's Technical System Contractor. Using agency will separately award such work to Technical System Contractor.
2. The project Electrical Contractor shall furnish and install the complete conduit & electrical infrastructure, to include: conduit, boxes, AC power circuits, insulated ground wires, transformer, sequencing load center, interface with building power, and as shown or noted on the drawings.
3. The Technical System Contractor shall furnish all sound & audio/video system equipment & materials (electronic components, equip, racks, loudspeakers, projectors, low-voltage audio & video signal & control circuit wiring, connectors, etc.), per the sound & audio/video system drawings & specifications.
4. The Technical System Contractor shall coordinate the sound & audio/video system installation work with other trades (ceiling; electrical; mechanical, etc.) involved with the project.
5. This sheet shall be used only to reference conduit & electrical infrastructure supporting the sound & audio/video systems, and to reference the sound & audio/video systems themselves. Refer to other project drawings (architectural, electrical, mechanical, etc.) for other building systems, as required to coordinate with the installation of the conduit & electrical infrastructure, and with the sound & audio/video systems.

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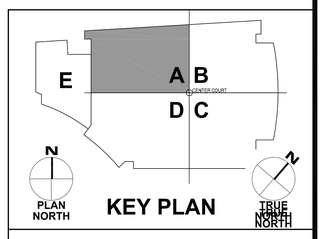

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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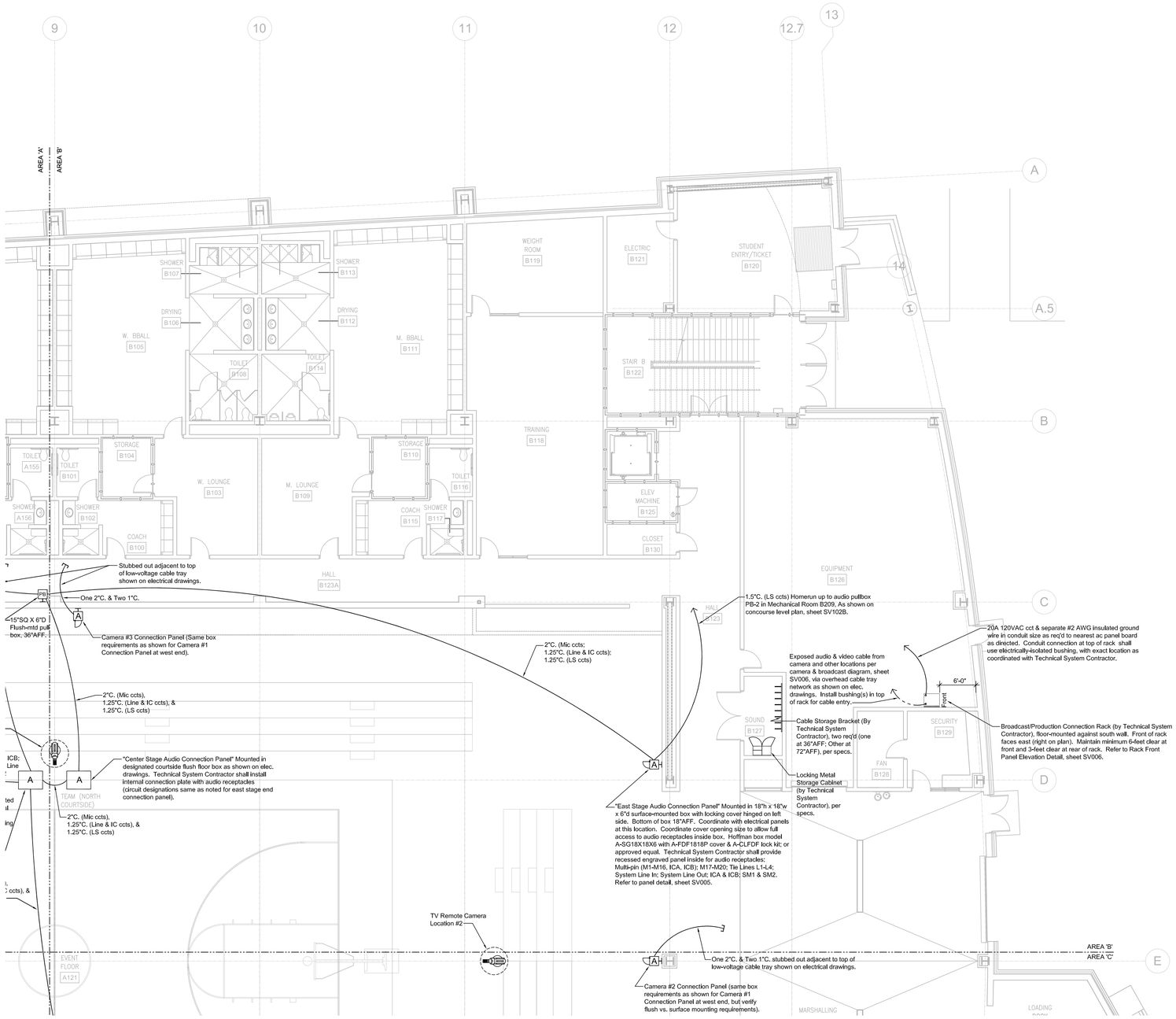
EVENT LEVEL - AREA A

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV101A
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 EVENT LEVEL - AREA B
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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2. The project Electrical Contractor shall furnish and install the complete conduit & electrical infrastructure, to include: conduit, boxes, AC power circuits, insulated ground wires, transformer, sequencing load center, interface with building power, and as shown or noted on the drawings.
3. The Technical System Contractor shall furnish all sound & audio/video system equipment & materials (electronic components, equip, racks, loudspeakers, projectors, low-voltage audio & video signal & control circuit wiring, connectors, etc.), per the sound & audio/video system drawings & specifications.
4. The Technical System Contractor shall coordinate the sound & audio/video system installation work with other trades (ceiling; electrical; mechanical, etc.) involved with the project.
5. This sheet shall be used only to reference conduit & electrical infrastructure supporting the sound & audio/video systems, and to reference the sound & audio/video systems themselves. Refer to other project drawings (architectural, electrical, mechanical, etc.) for other building systems, as required to coordinate with the installation of the conduit & electrical infrastructure, and with the sound & audio/video systems.

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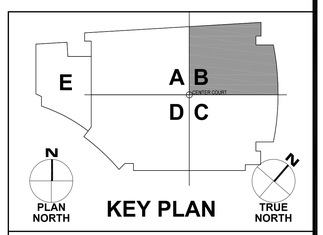

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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5799 BROADMOOR, SUITE 108
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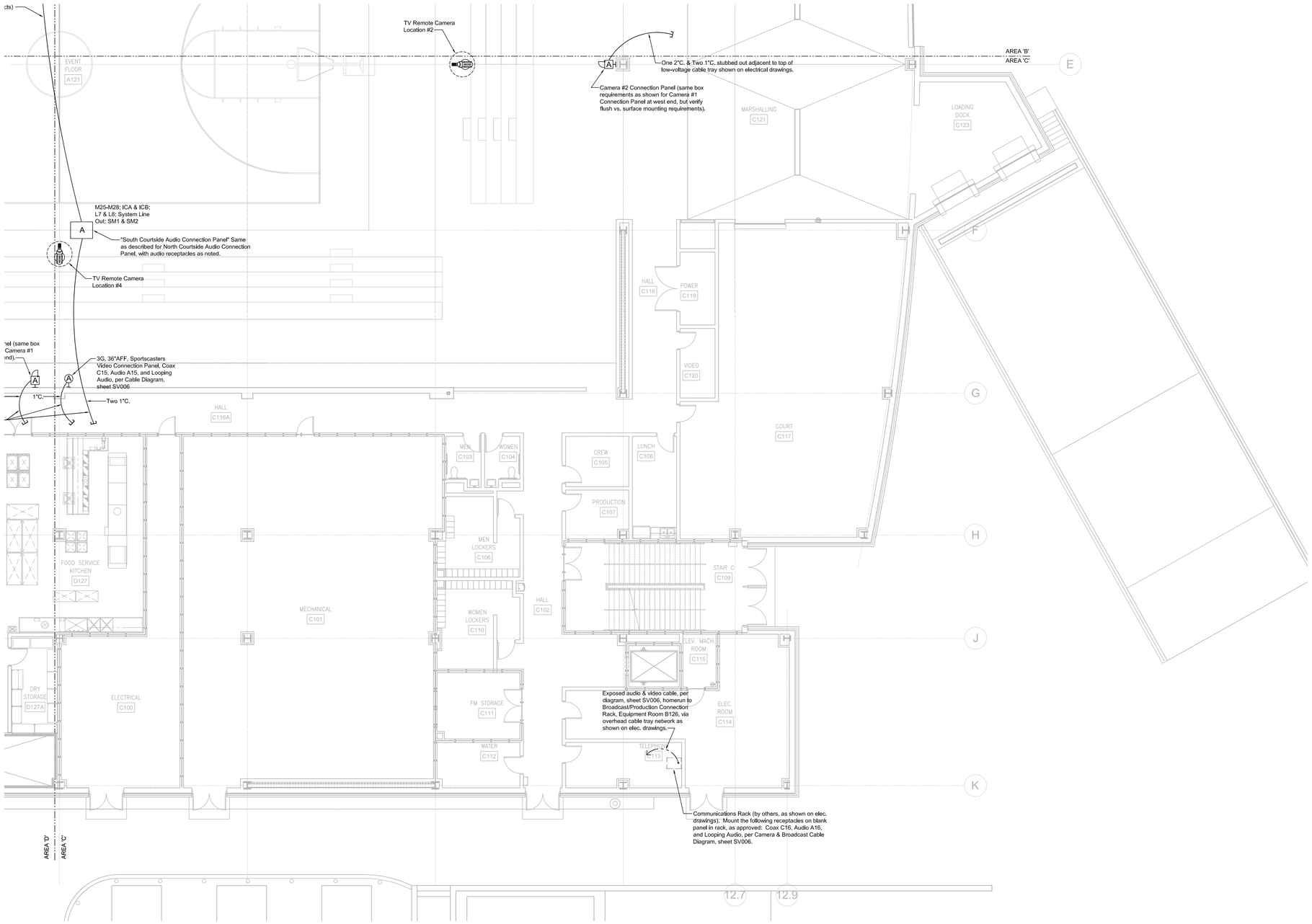
EVENT LEVEL - AREA B

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV101B
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 EVENT LEVEL - AREA C
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

1. Work involving the furnishing & installation of sound & audio/video system equipment in these documents, shall be performed by the using agency's Technical System Contractor. Using agency will separately award such work to Technical System Contractor.
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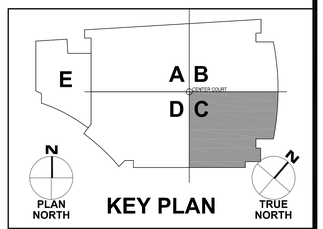

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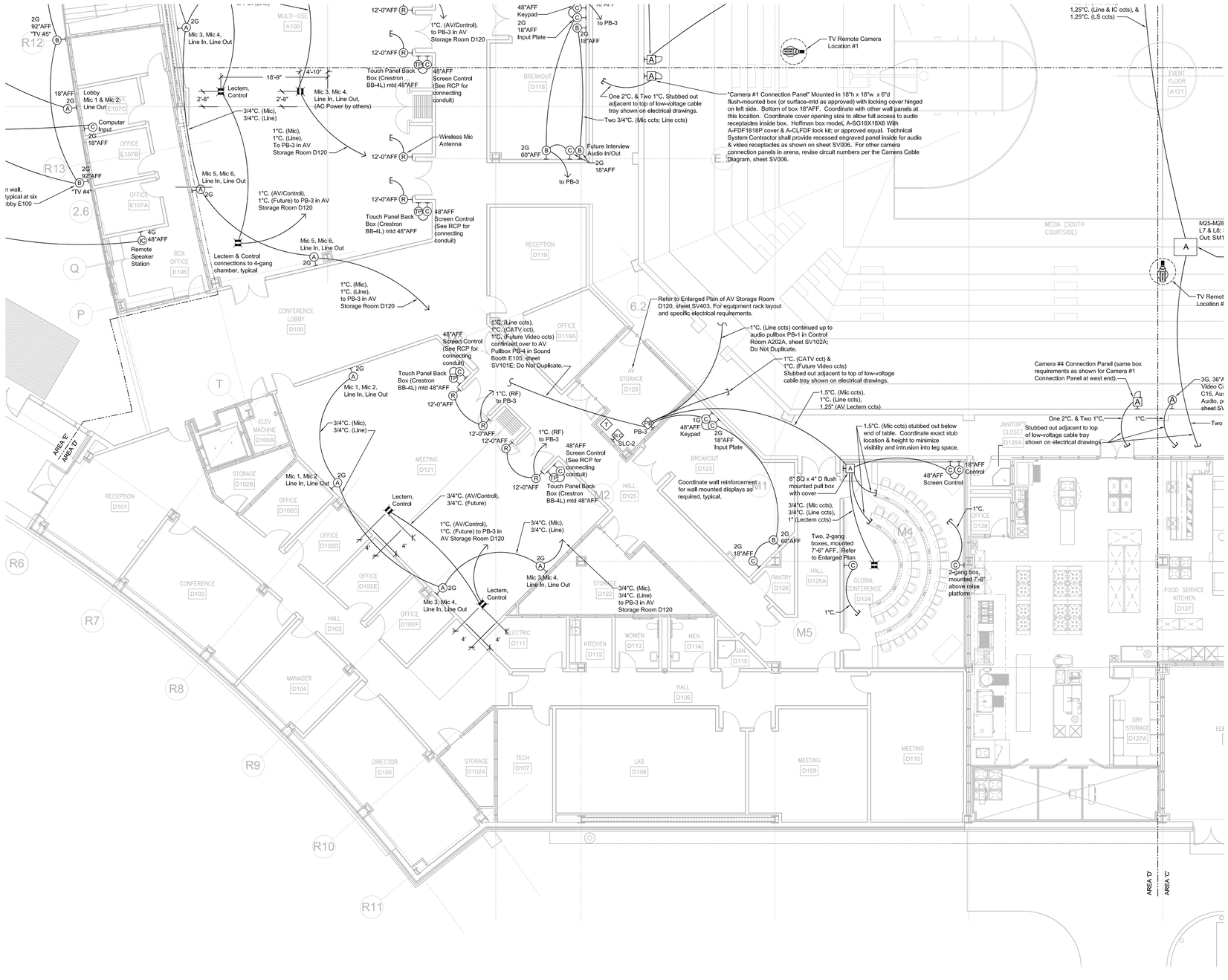
EVENT LEVEL - AREA C

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV101C
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 EVENT LEVEL - AREA D
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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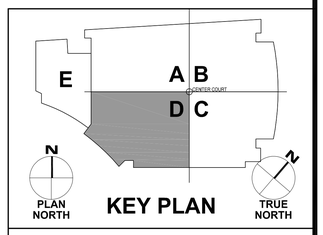

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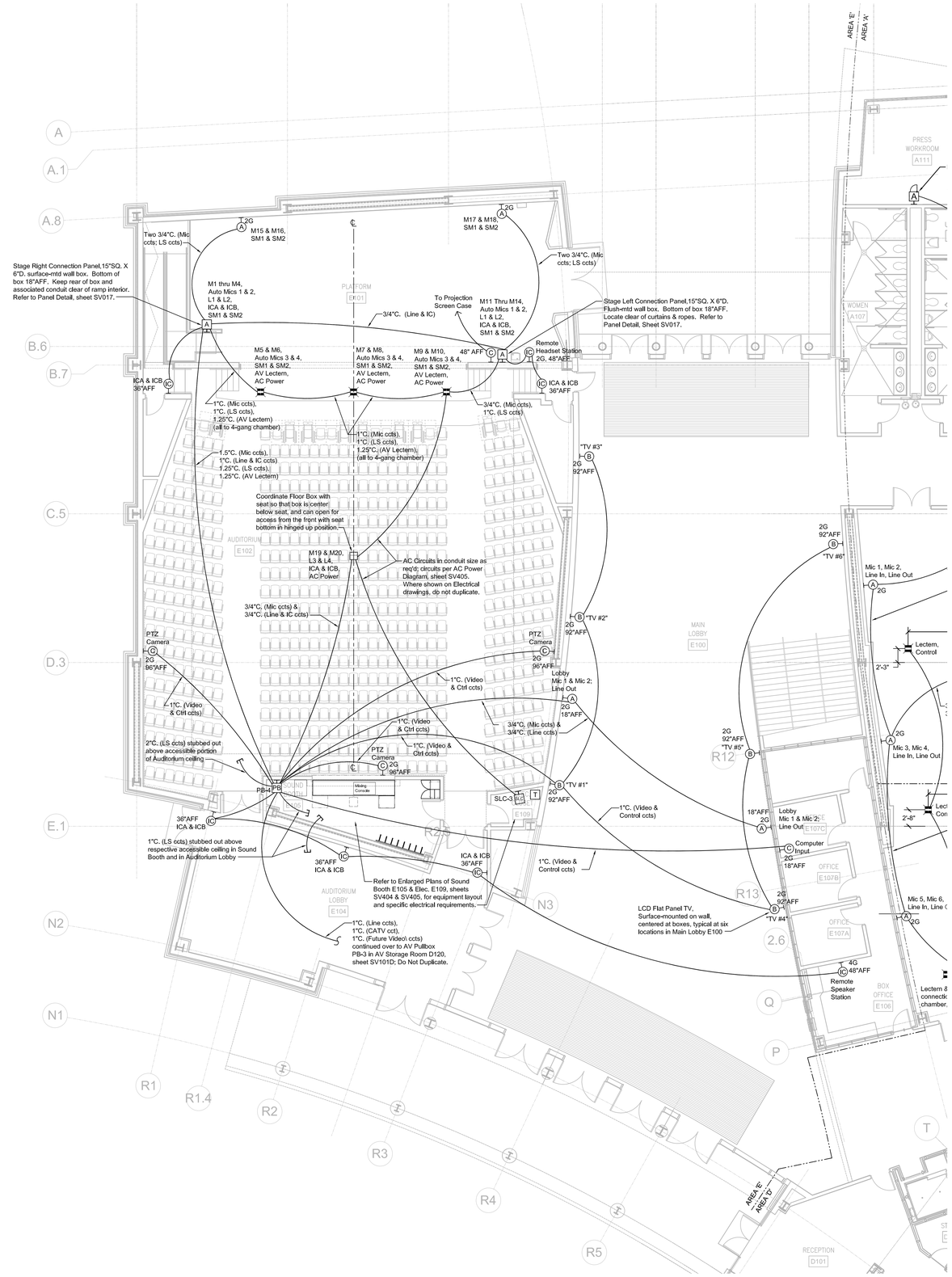
EVENT LEVEL - AREA D

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV101D
CHECKED BY: IRW	SCALE 1/8" - 1'-0"	

ADG 06289



1 EVENT LEVEL - AREA E
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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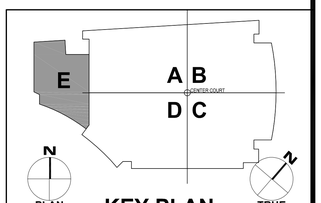

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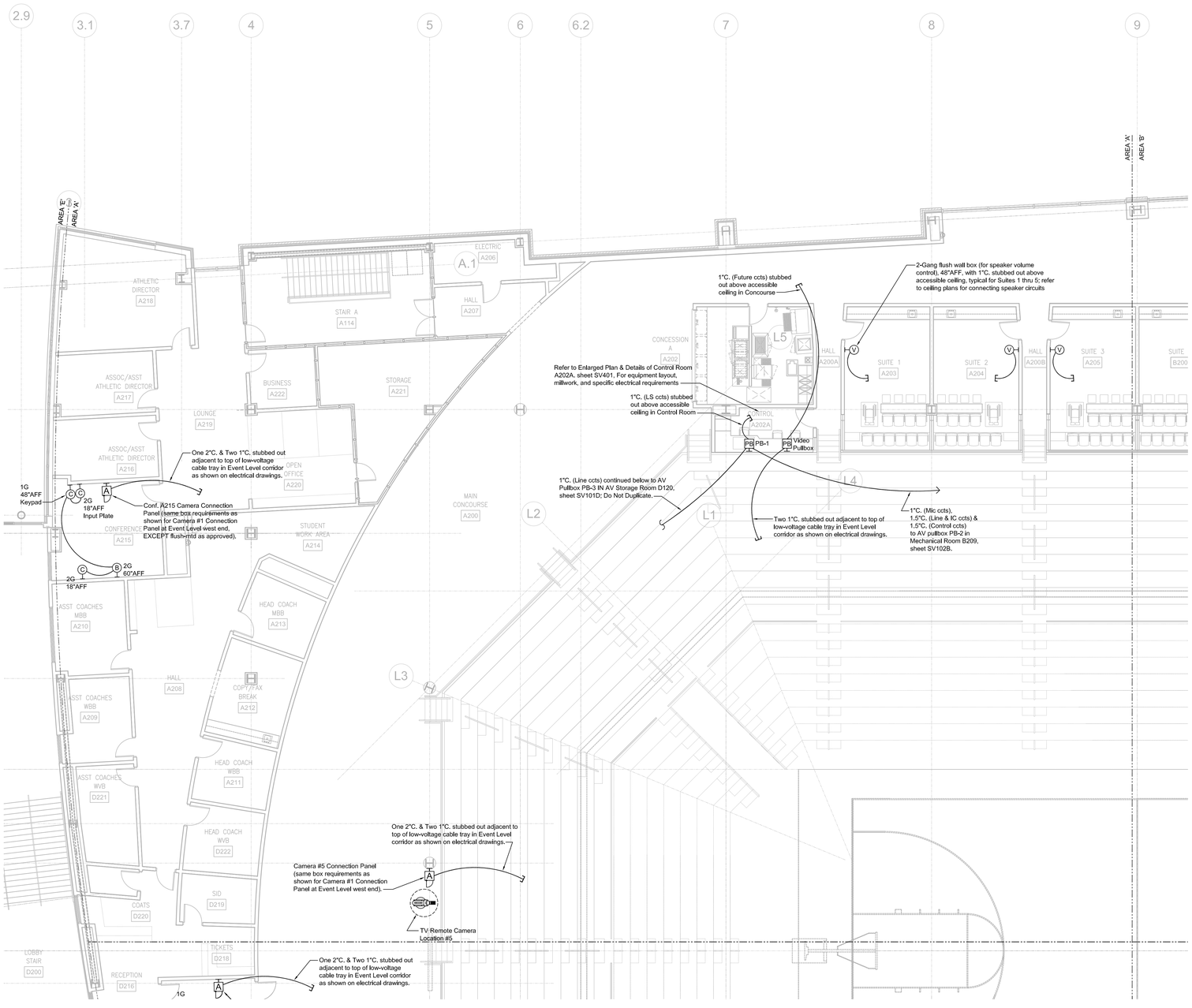
EVENT LEVEL AREA E

DRAWN BY: GND/EDK	DATE 08/05/10	DRAWING NO. SV101E
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 CONCOURSE LEVEL - AREA A
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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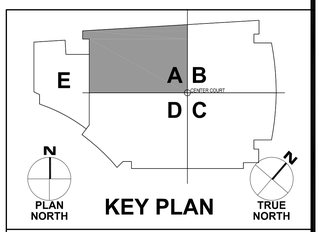

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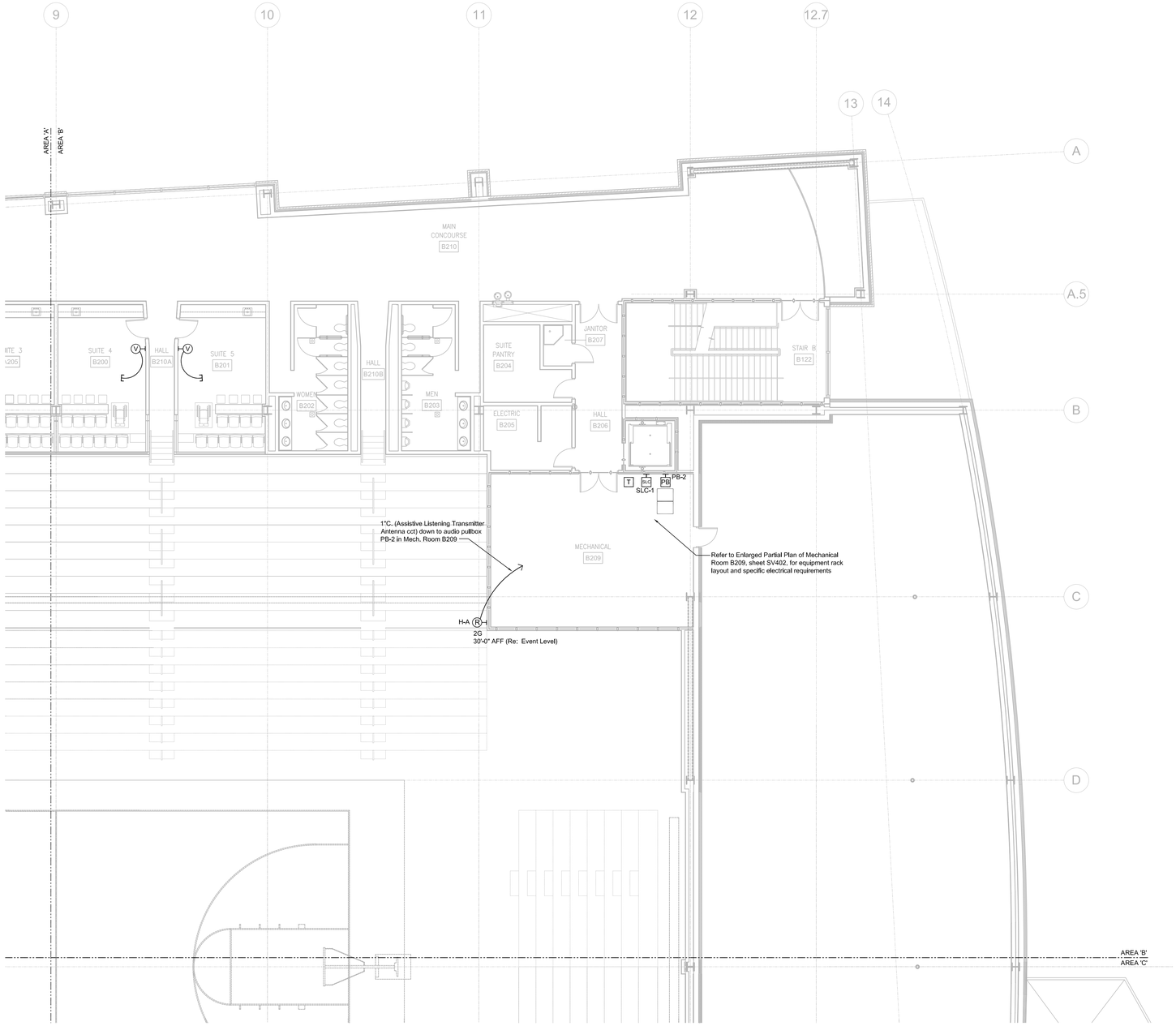
CONCOURSE LEVEL - AREA A

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV102A
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 CONCOURSE LEVEL - AREA B
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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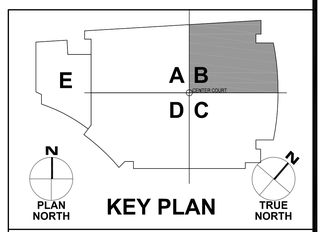

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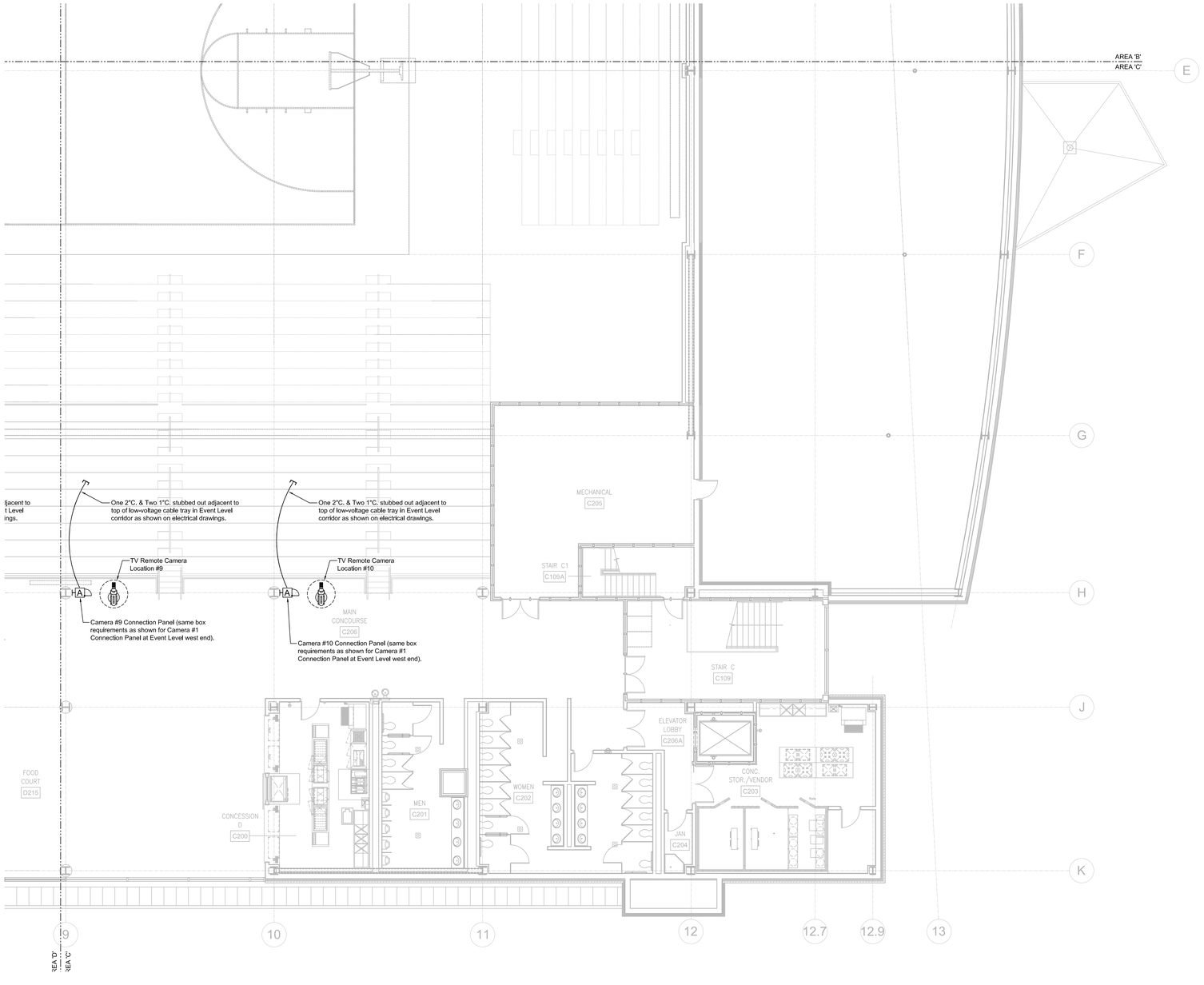
CONCOURSE LEVEL - AREA B

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV102B
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 CONCOURSE LEVEL - AREA C
1/8" = 1'-0"

N
PLAN NORTH

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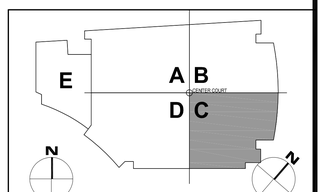

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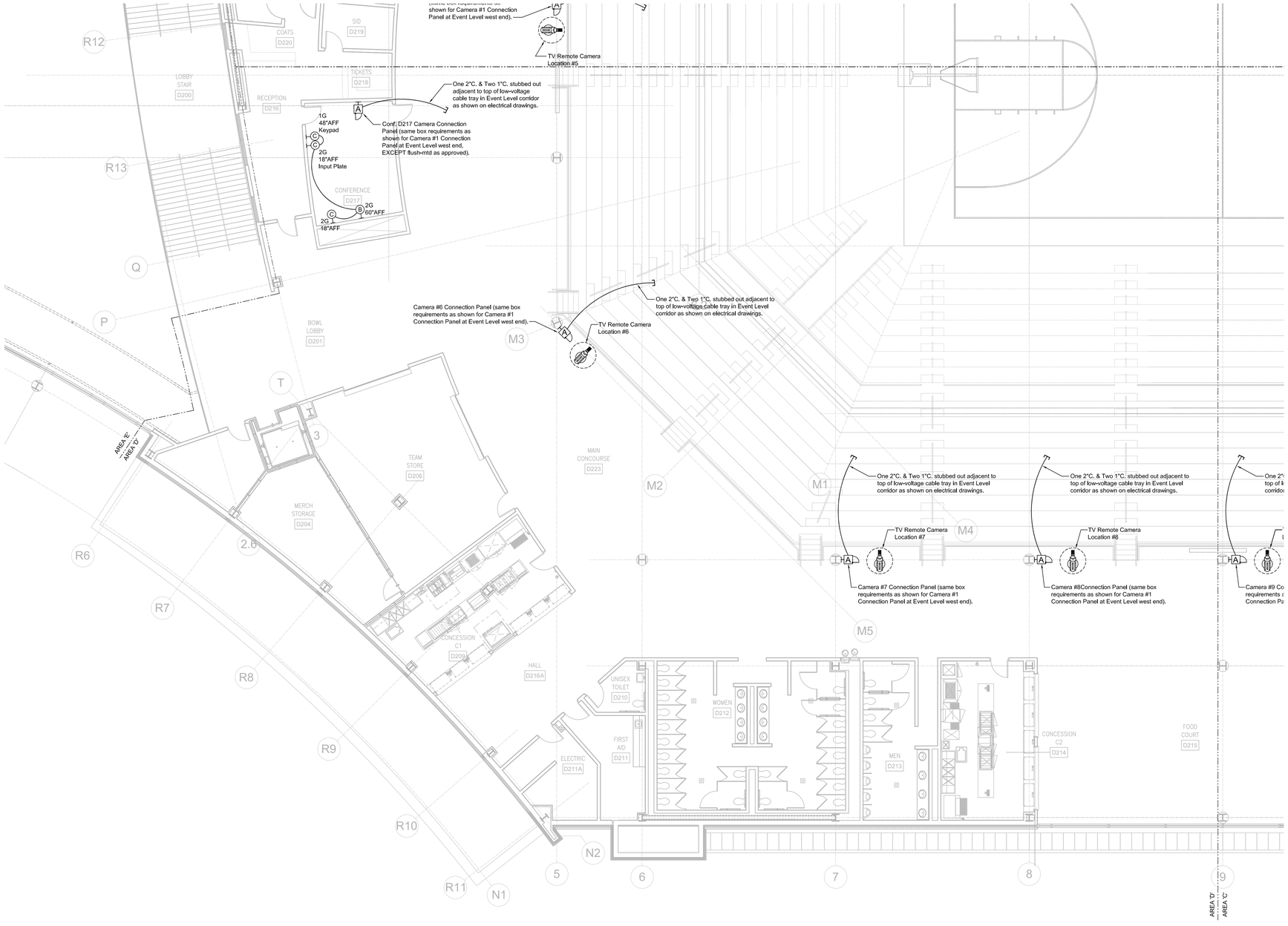
CONCOURSE LEVEL - AREA C

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV102C
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 CONCOURSE LEVEL - AREA D
1/8" = 1'-0"

N
PLAN NORTH

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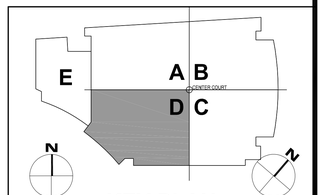

KEY PLAN

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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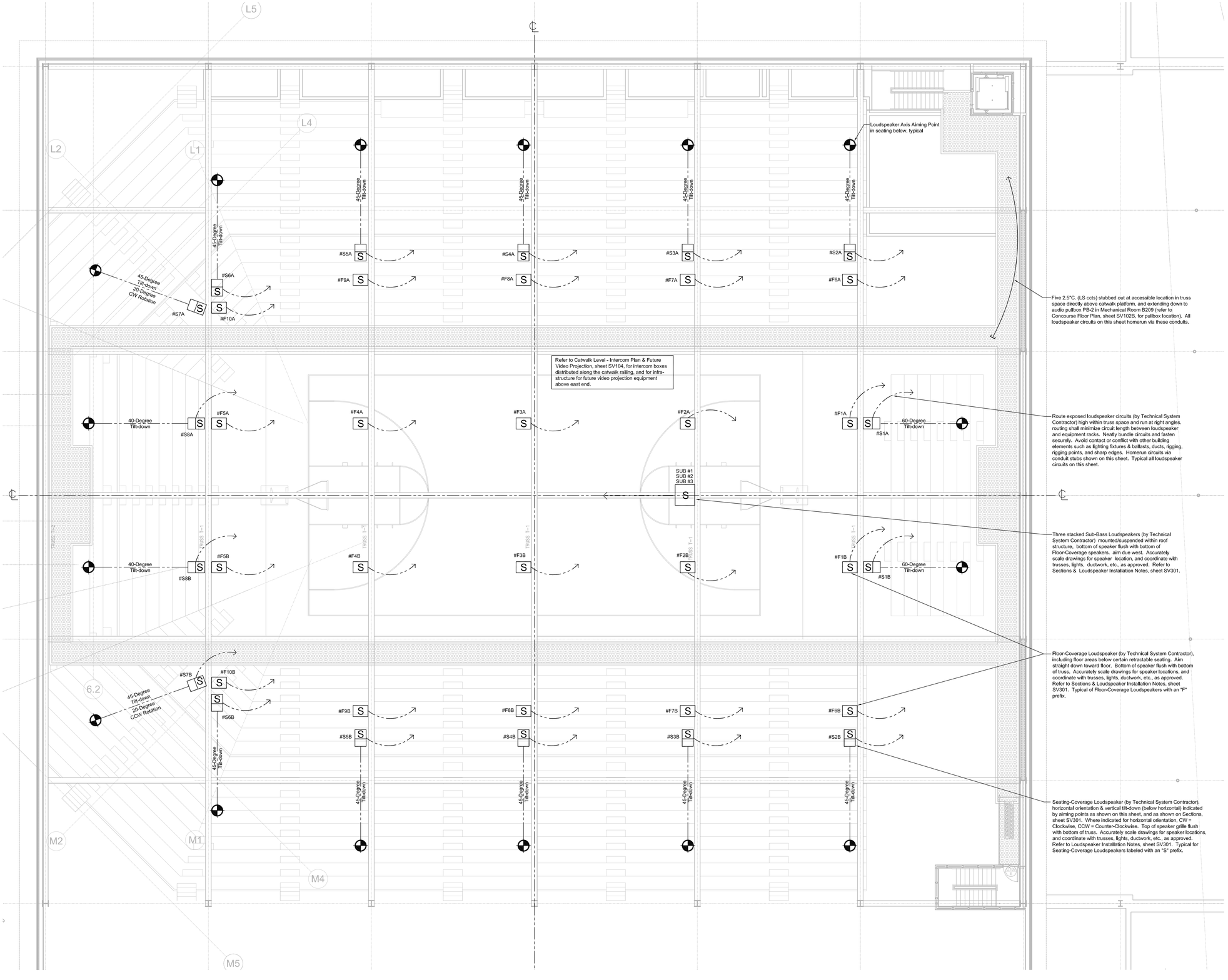
CONCOURSE LEVEL - AREA D

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV102D
CHECKED BY: IRW	SCALE 1/8" - 1'-0"	

ADG 06289



1 CATWALK LEVEL - SPEAKER PLAN
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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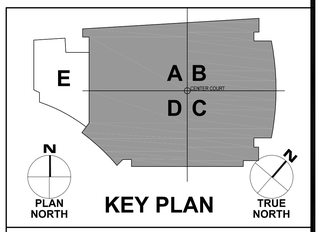

	DESCRIPTION		DESCRIPTION

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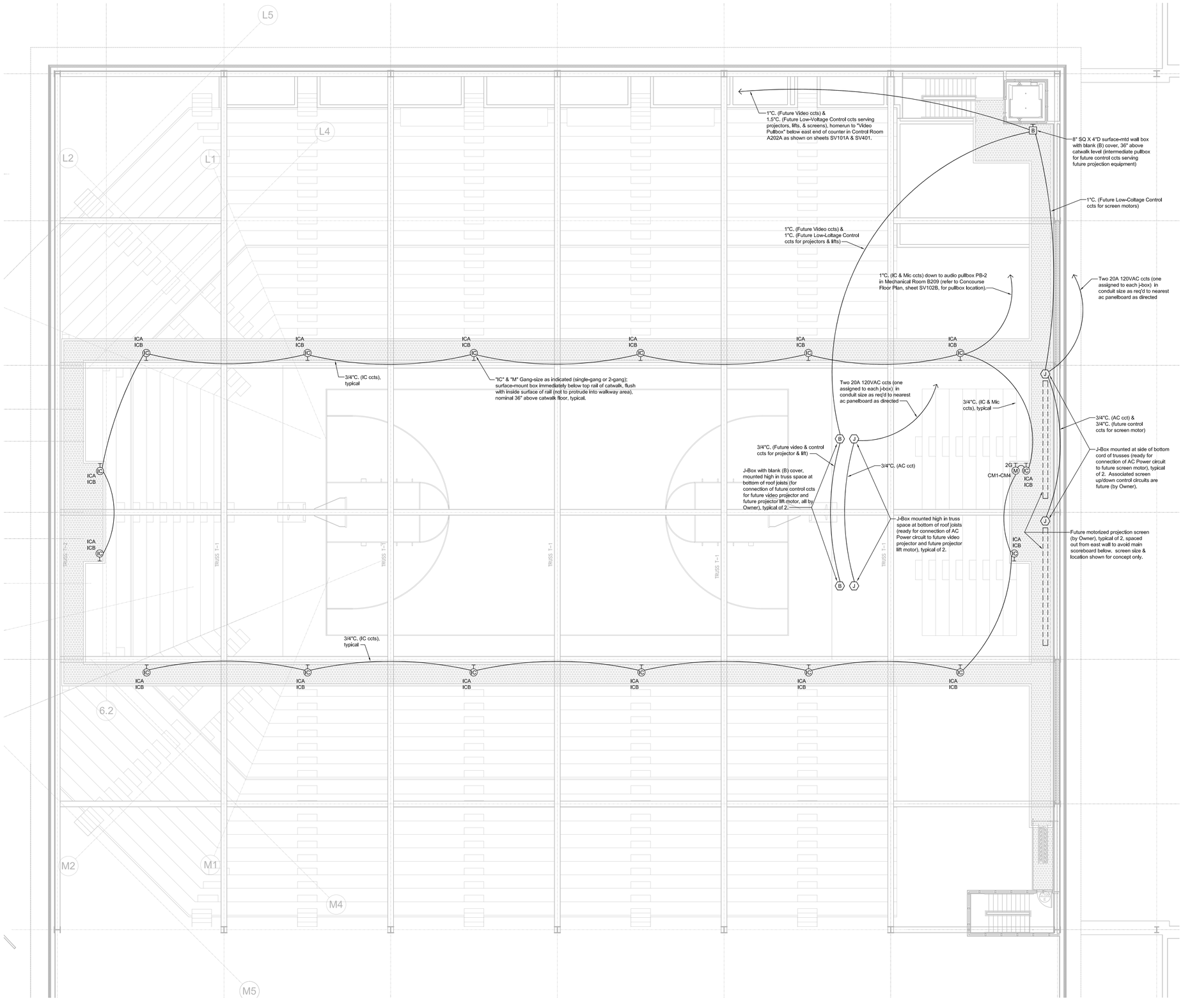
CATWALK LEVEL SPEAKER PLAN

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV103
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 CATWALK LEVEL - INTERCOM PLAN & FUTURE VIDEO PROJECTION
1/8" = 1'-0"

N
PLAN NORTH

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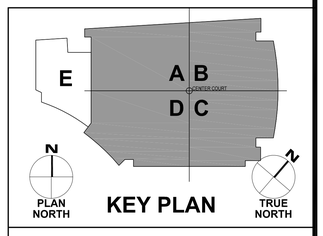
email: adg@adgkc.com



	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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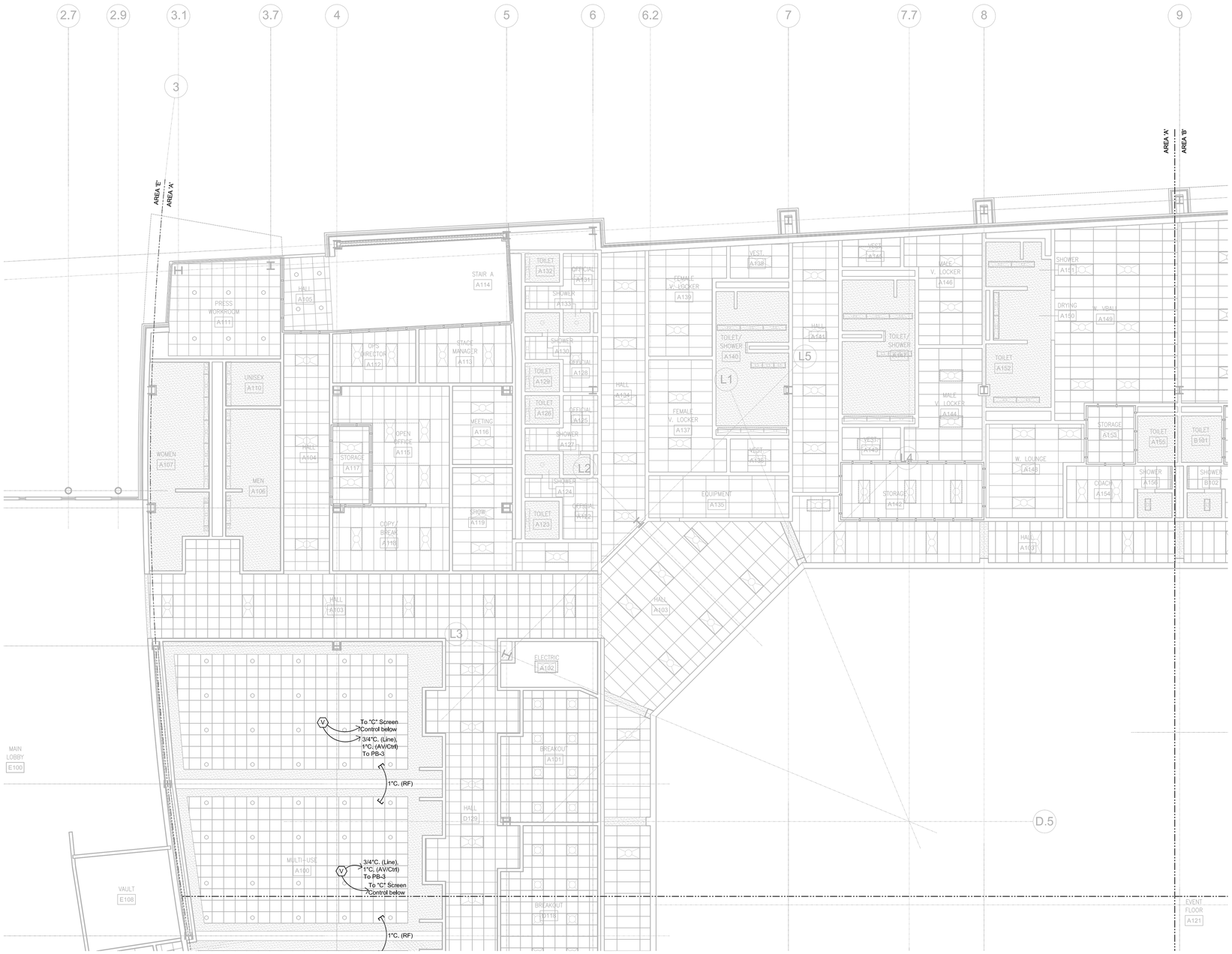
CATWALK LEVEL - INTERCOM PLAN & FUTURE VIDEO PROJ.

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV104
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 EVENT LEVEL REFLECTED CEILING PLAN - AREA A

1/8" = 1'-0"

N

PLAN NORTH

GENERAL COORDINATION NOTES:

1. Work involving the furnishing & installation of sound & audio/video system equipment in these documents, shall be performed by the using agency's Technical System Contractor. Using agency will separately award such work to Technical System Contractor.
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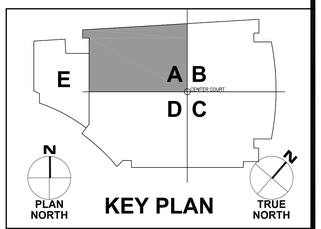

KEY PLAN

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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EVENT LEVEL REFLECTED CEILING PLAN - AREA A

DRAWN BY:	DATE:	DRAWING NO.
GND/EDK	08/05/10	SV111A
CHECKED BY: IRW	SCALE: 1/8" = 1'-0"	

ADG 06289

1 EVENT LEVEL REFLECTED CEILING PLAN - AREA D
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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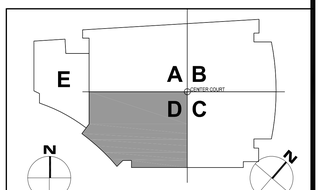

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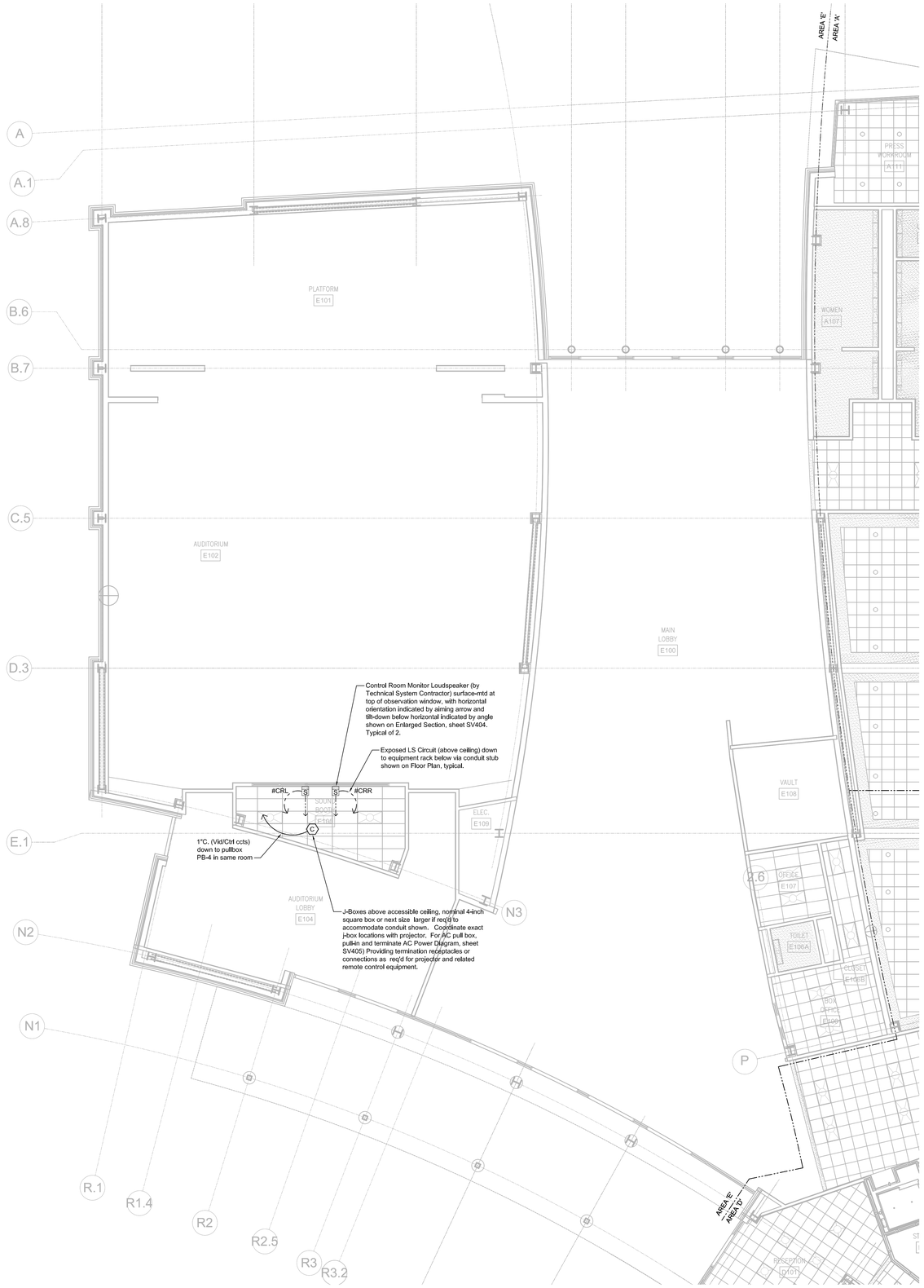
EVENT LEVEL REFLECTED CEILING PLAN - AREA D

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV111D
CHECKED BY: IRW	SCALE: 1/8" - 1'-0"	

ADG 06289



1 EVENT LEVEL REFLECTED CEILING PLAN - AREA E
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

1. Work involving the furnishing & installation of sound & audio/video system equipment in these documents, shall be performed by the using agency's Technical System Contractor. Using agency will separately award such work to Technical System Contractor.
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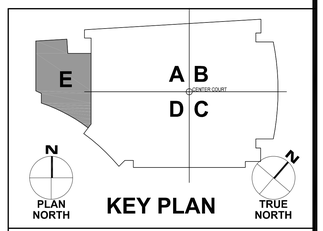

	DESCRIPTION		DESCRIPTION

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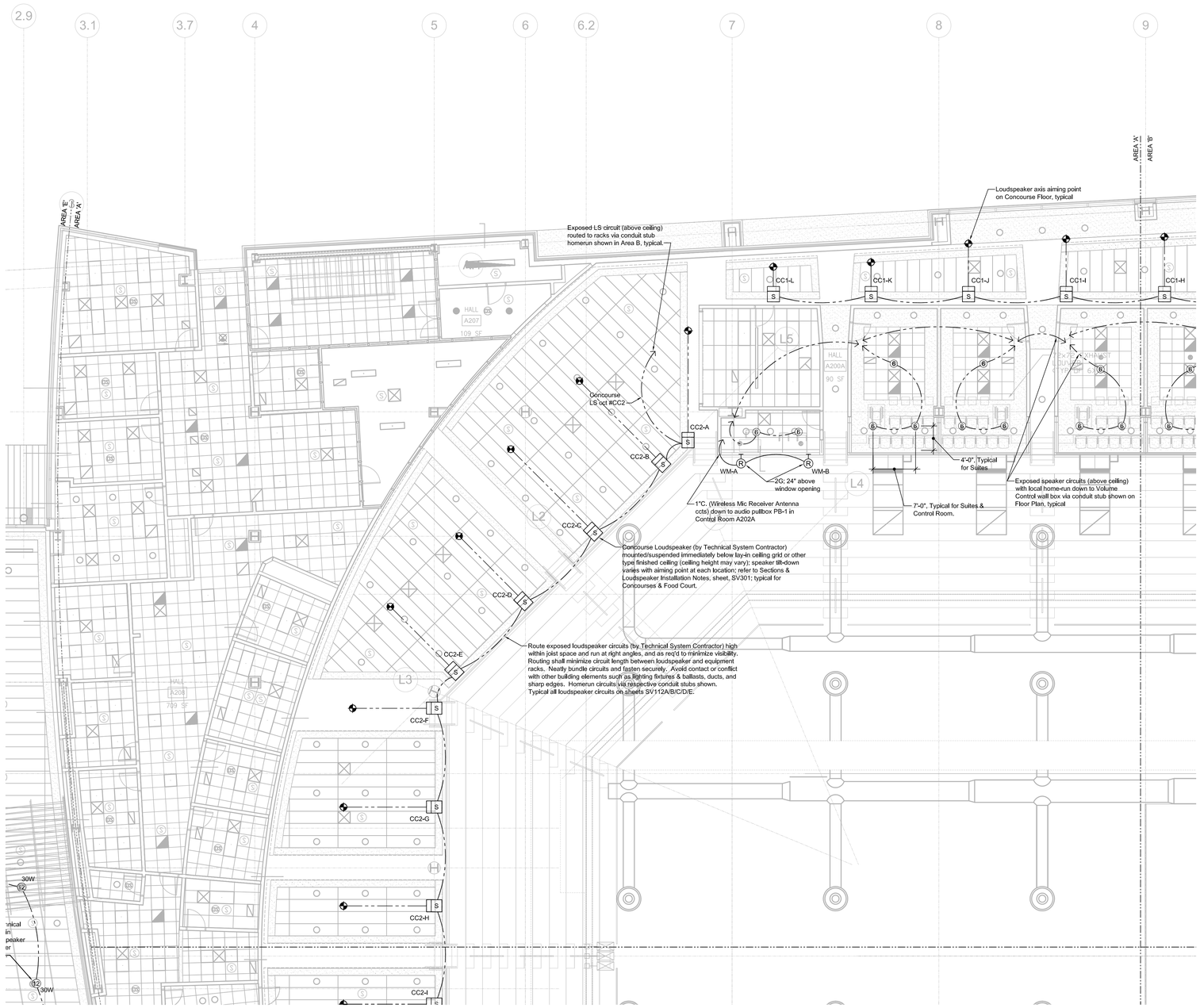
EVENT LEVEL REFLECTED CEILING PLAN - AREA E

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV111E
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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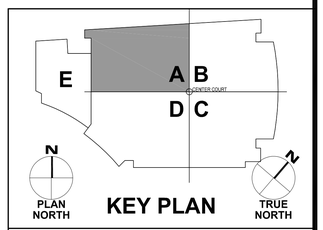

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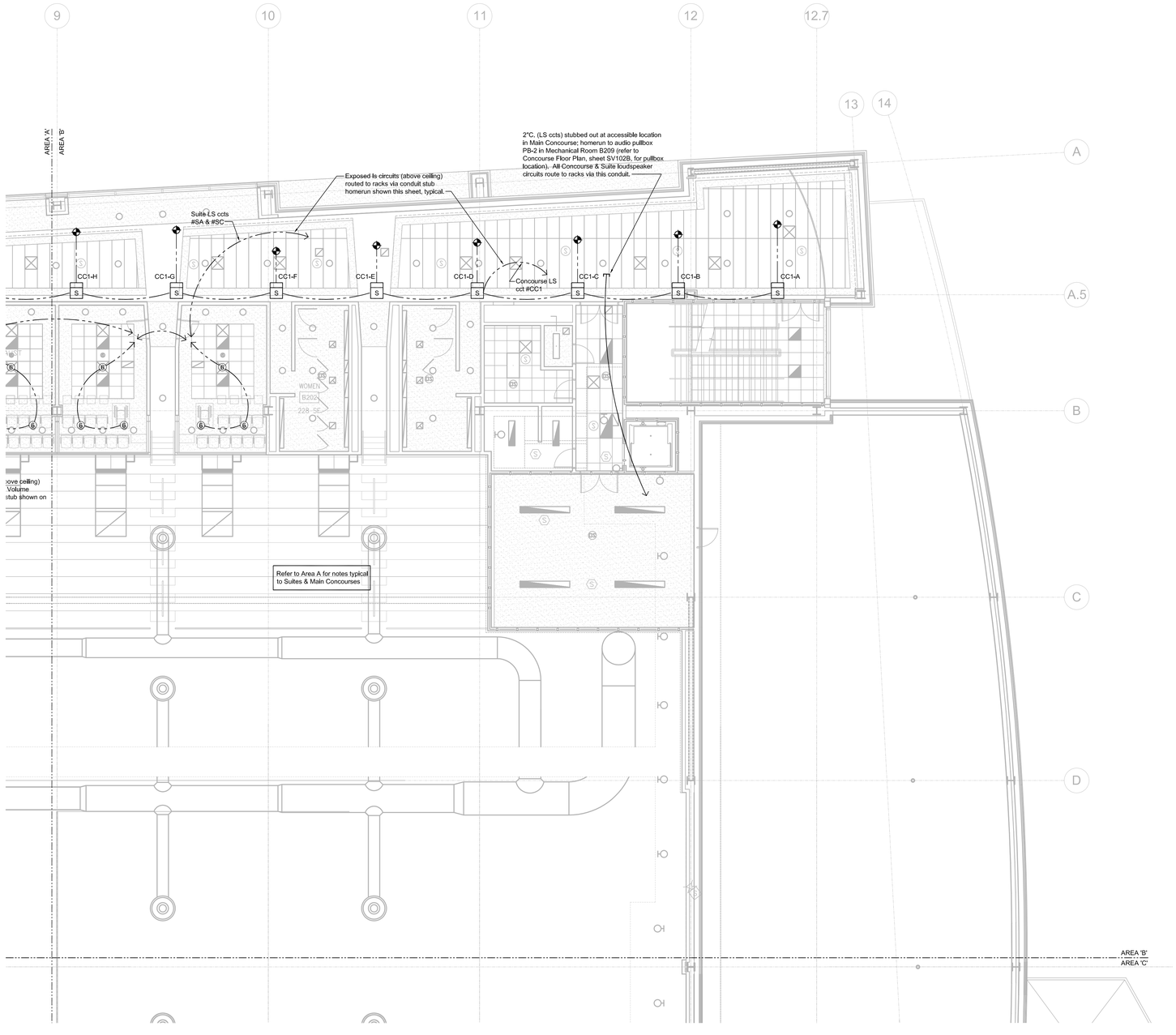
CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA A

DRAWN BY: GND/EDK	DATE 08/05/10	DRAWING NO. SV112A
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

1. Work involving the furnishing & installation of sound & audio/video system equipment in these documents, shall be performed by the using agency's Technical System Contractor. Using agency will separately award such work to Technical System Contractor.
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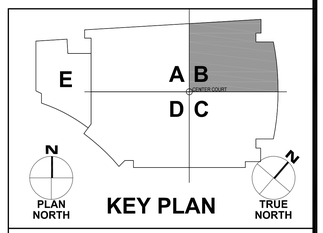

	DESCRIPTION		DESCRIPTION

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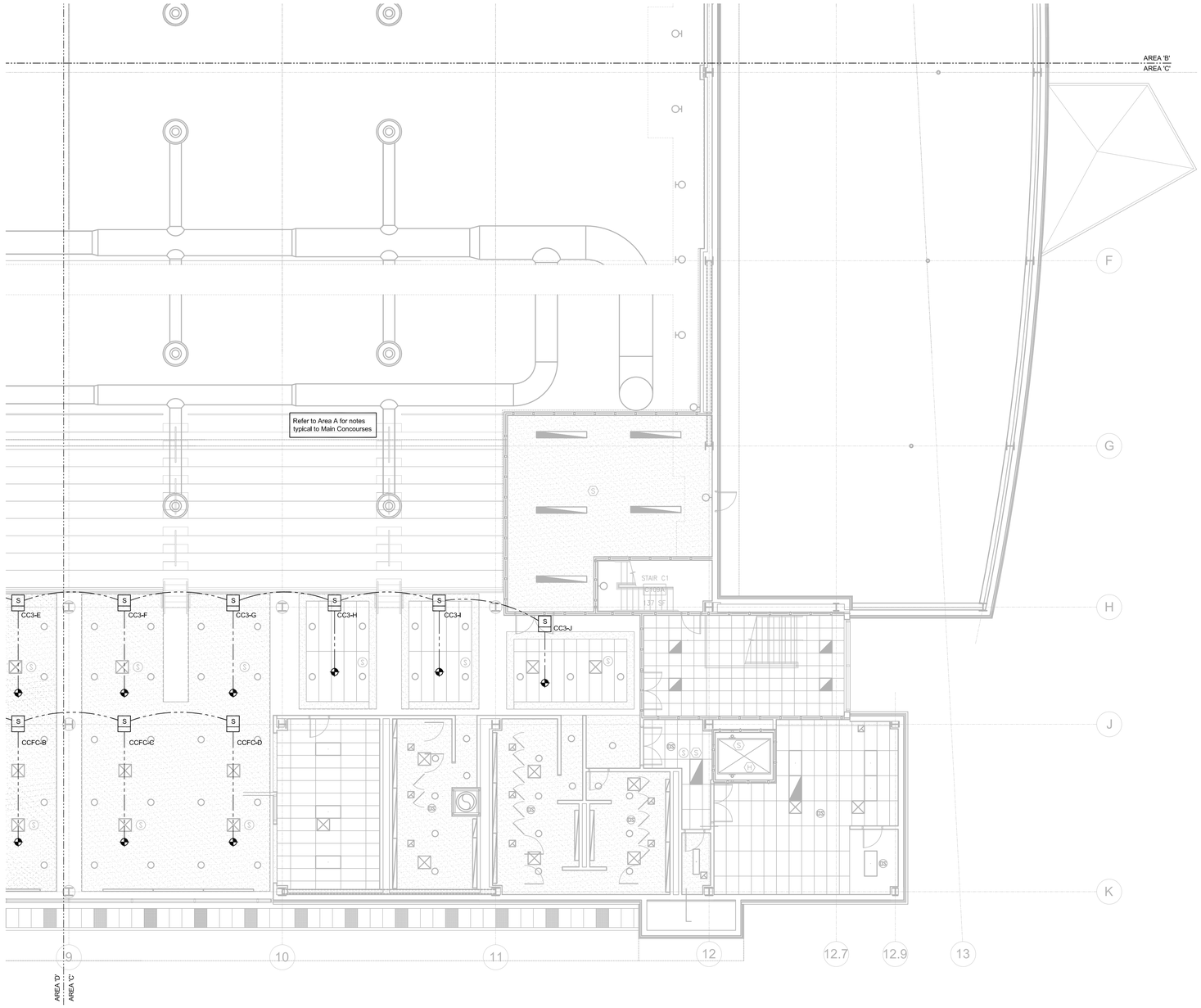
CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA B

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV112B
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA C
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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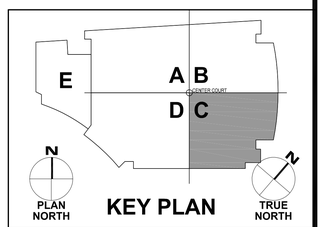

	DESCRIPTION		DESCRIPTION

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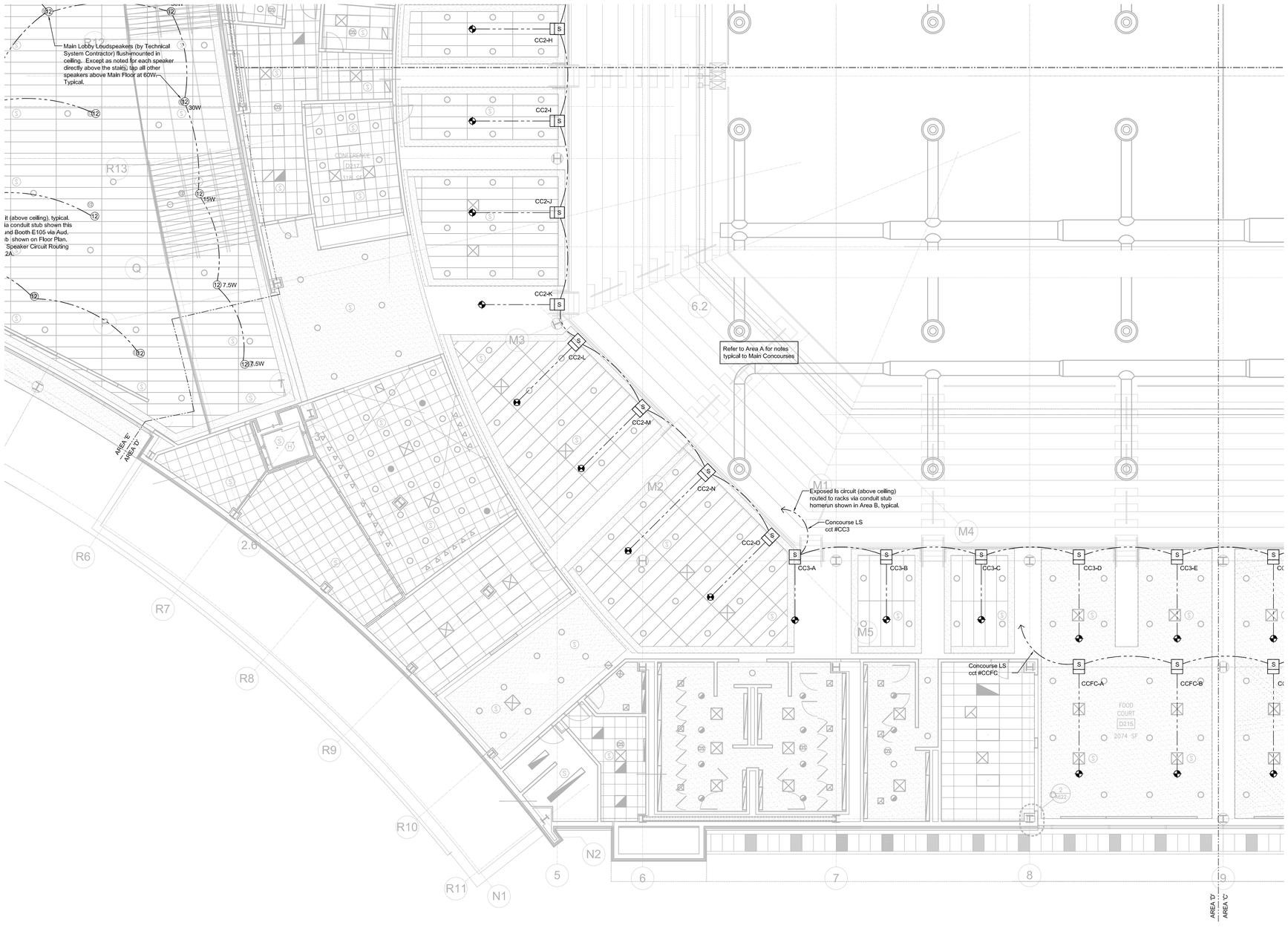
CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA C

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV112C
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



1 CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA D
1/8" = 1'-0"

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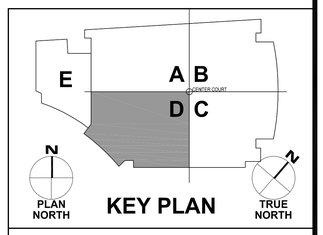

	DESCRIPTION		DESCRIPTION

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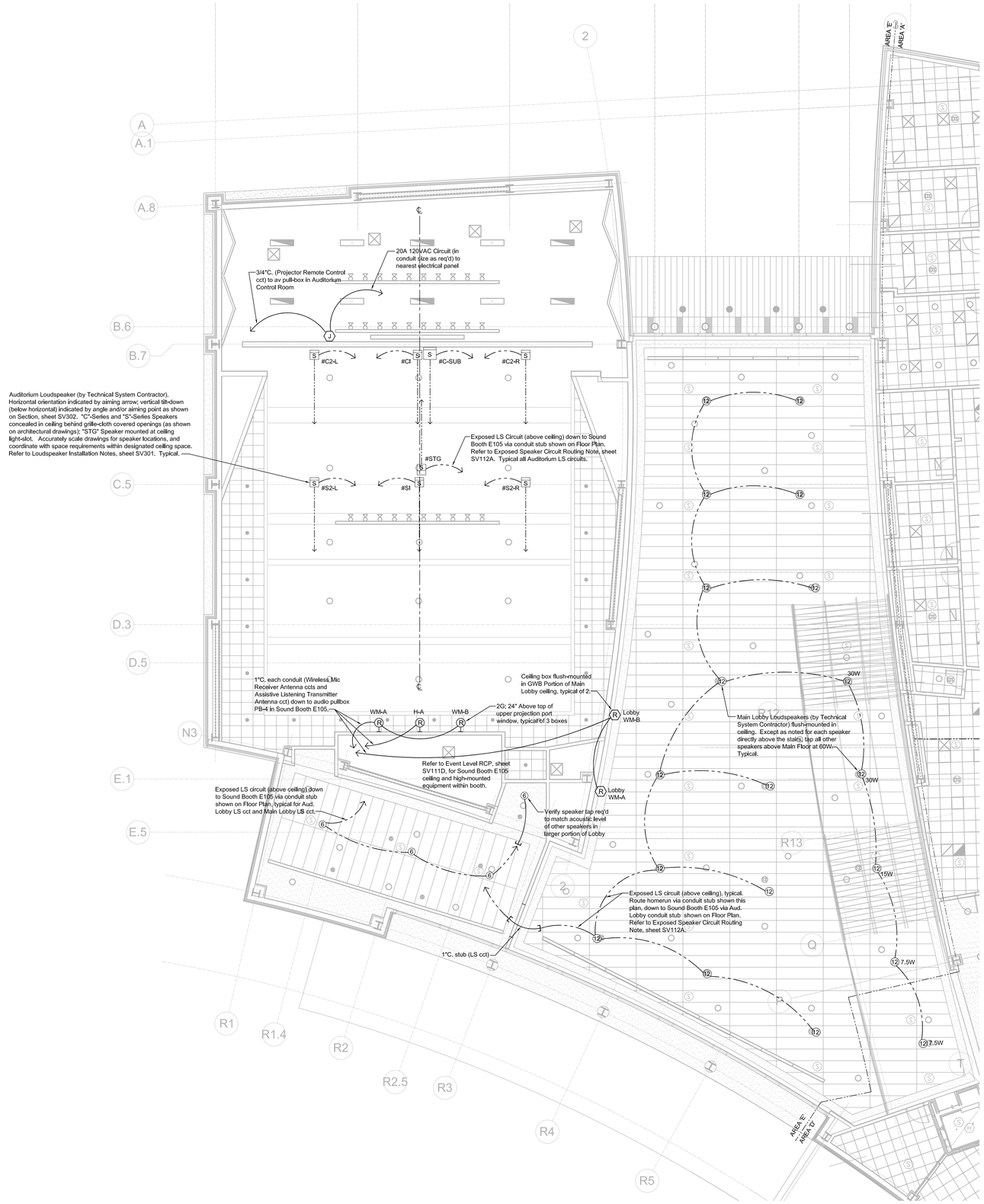
CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA D

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV112D
CHECKED BY: IRW	SCALE 1/8" - 1'-0"	

ADG 06289



1 CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA E
1/8" = 1'-0"

N
PLAN NORTH

GENERAL COORDINATION NOTES:

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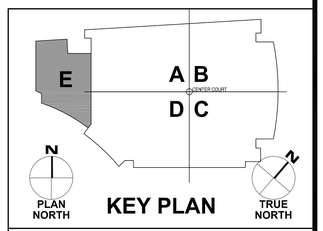

DESCRIPTION	DESCRIPTION

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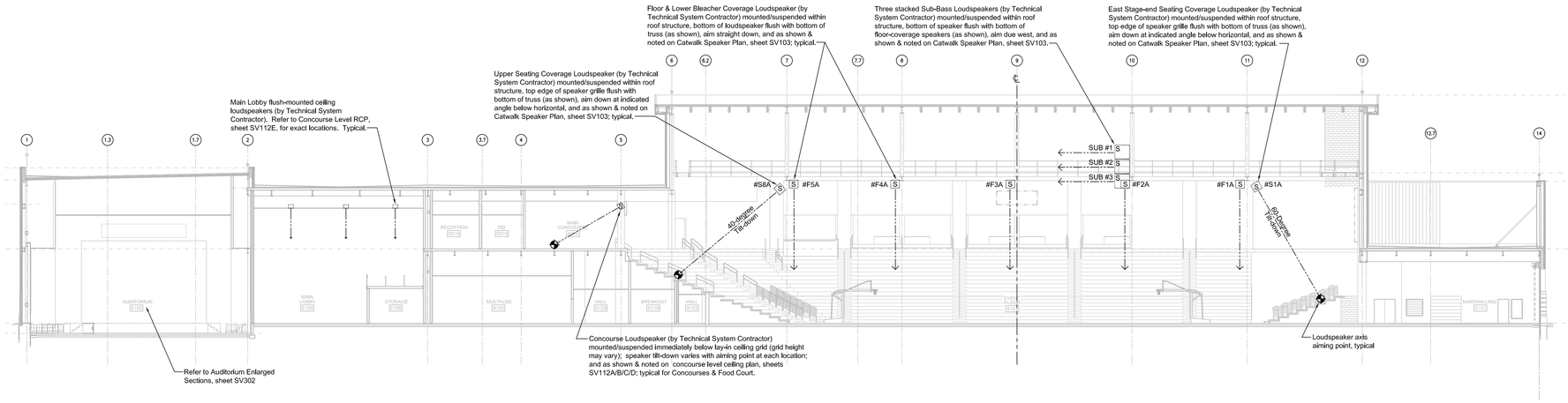
CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA E

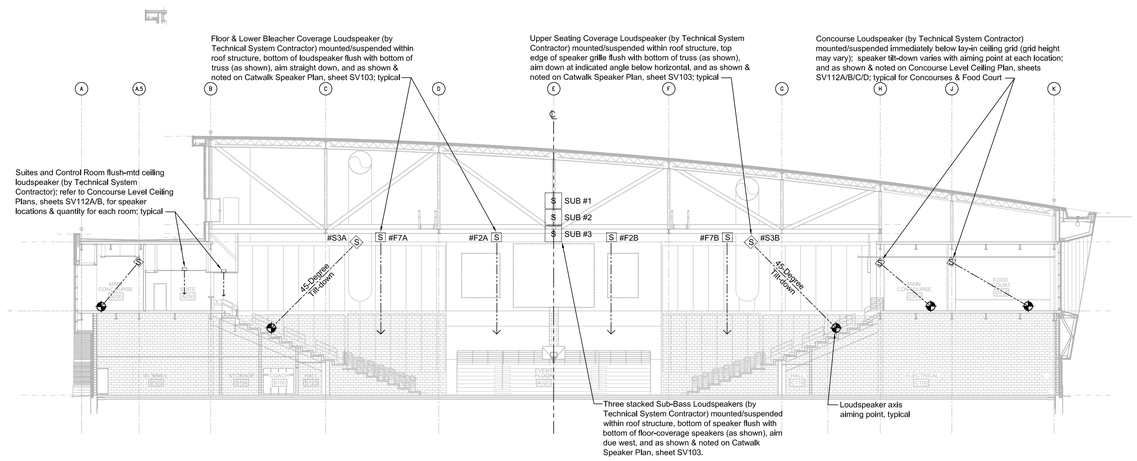
DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV112E
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



A SECTION @ CENTER COURT EW (LOOKING NORTH)

1/16" = 1'-0"



B SECTION @ CENTER COURT NS (LOOKING EAST)

1/16" = 1'-0"

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3. The Technical System Contractor shall furnish all sound & audio/video system equipment & materials (electronic components, equip. racks, loudspeakers, projectors, low-voltage audio & video signal & control circuit wiring, connectors, etc.), per the sound & audio/video system drawings & specifications.
4. The Technical System Contractor shall coordinate the sound & audio/video system installation work with other trades (ceiling; electrical; mechanical, etc.) involved with the project.
5. This sheet shall be used only to reference conduit & electrical infrastructure supporting the sound & audio/video systems, and to reference the sound & audio/video systems themselves. Refer to other project drawings (architectural, electrical, mechanical, etc.) for other building systems, as required to coordinate with the installation of the conduit & electrical infrastructure, and with the sound & audio/video systems.

LOUDSPEAKER INSTALLATION NOTES:

These notes apply to all overhead loudspeakers shown on the SV-Series drawings for this project. Similar requirements shall apply to all other overhead devices shown on the SV-Series drawings (including, but not limited to, video & AV equipment).

1. All structural details, structural member types, sizes, mounting and suspension methods, and attachment methods are shown FOR CONCEPT ONLY. Final design shall be made by Technical System Contractor and shall be verified by the Architect.
2. The Technical System Contractor shall employ the services of a Registered Structural Engineer to review and stamp all shop drawings of loudspeaker installation details, for Architect's review.
3. All attachments to loudspeakers, and any related brackets and hardware, shall be as recommended by loudspeaker manufacturer. Where loudspeakers are suspended with aircraft cable (size as req'd), use two cable clamps, with double nuts each clamp stud, on all cable connections.
4. Paint all loudspeakers, miscellaneous steel, and hardware req'd to support loudspeakers, two coats of alkyd satin enamel, color as selected by Architect. Use primer per manufacturer's recommendations. Do NOT paint cones of low-frequency loudspeakers nor diaphragms of HF drivers. Painting by Technical System Contractor.
5. All loudspeakers are drawn as symbols and are only approximate size. Technical System Contractor shall verify size for loudspeakers furnished.
6. Install loudspeakers so there are no obstructions to each loudspeaker's coverage pattern.
7. Technical System Contractor shall provide access to loudspeakers during installation and during testing & equalization activities.
8. Technical System Contractor, if so requested by the Acoustical Consultant during system commissioning (testing & equalization) activities, shall re-orient selected loudspeakers and re-tap selected loudspeaker transformers.

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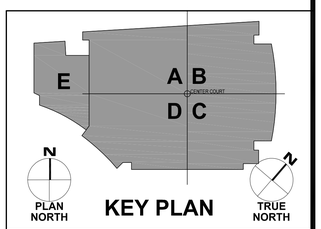

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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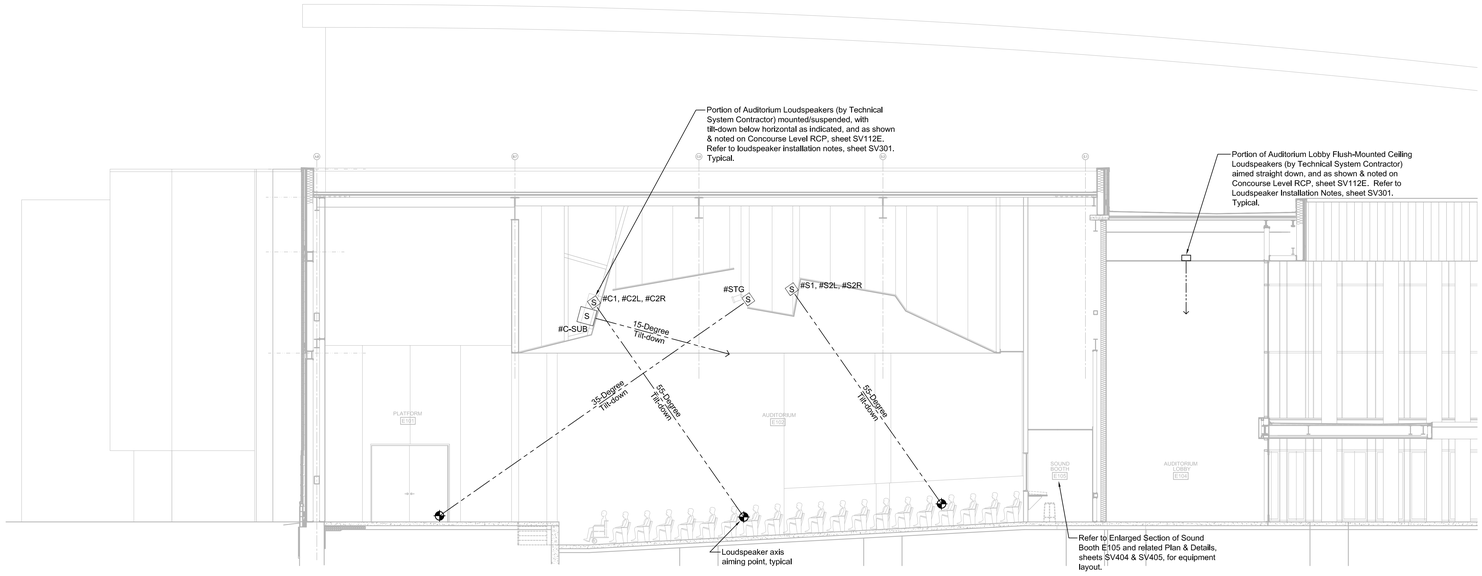
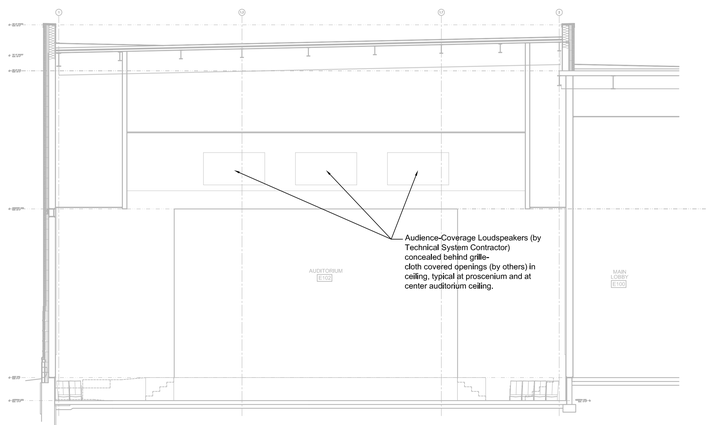
BUILDING SECTIONS; SPEAKER INSTALLATION NOTES

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV301
CHECKED BY: IRW	SCALE 1/16" = 1'-0"	

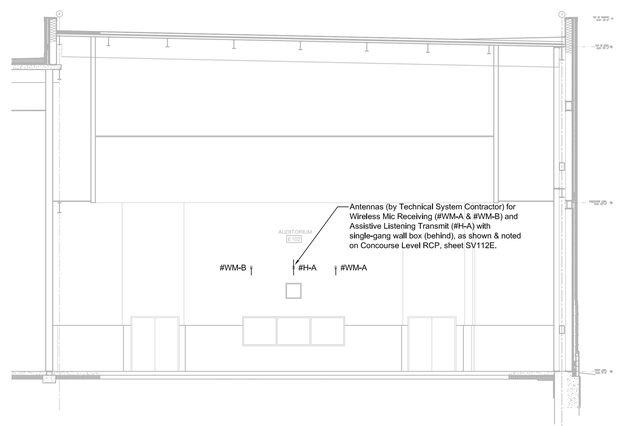
ADG 06289



A AUDITORIUM SECTION (LOOKING EAST)
1/8" = 1'-0"



B AUDITORIUM SECTION (LOOKING NORTH)
1/8" = 1'-0"



C AUDITORIUM SECTION (LOOKING SOUTH)
1/8" = 1'-0"

GENERAL COORDINATION NOTES:

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2. The project Electrical Contractor shall furnish and install the complete conduit & electrical infrastructure, to include: conduit, boxes, AC power circuits, insulated ground wires, transformer, sequencing load center, interface with building power, and as shown or noted on the drawings.
3. The Technical System Contractor shall furnish all sound & audio/video system equipment & materials (electronic components, equip. racks, loudspeakers, projectors, low-voltage audio & video signal & control circuit wiring, connectors, etc.), per the sound & audio/video system drawings & specifications.
4. The Technical System Contractor shall coordinate the sound & audio/video system installation work with other trades (ceiling; electrical; mechanical, etc.) involved with the project.
5. This sheet shall be used only to reference conduit & electrical infrastructure supporting the sound & audio/video systems, and to reference the sound & audio/video systems themselves. Refer to other project drawings (architectural, electrical, mechanical, etc.) for other building systems, as required to coordinate with the installation of the conduit & electrical infrastructure, and with the sound & audio/video systems.

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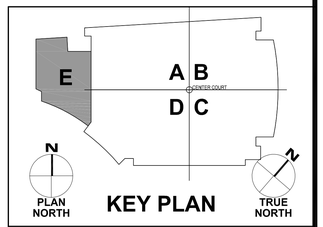

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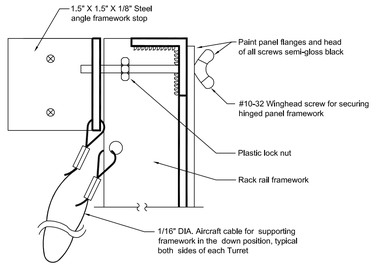
AUDITORIUM ENLARGED SECTIONS

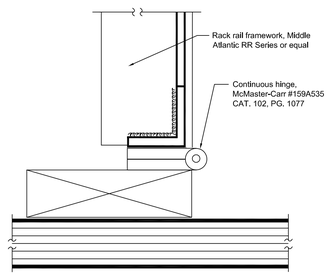
DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV302
CHECKED BY: IRW	SCALE 1/8" = 1'-0"	

ADG 06289



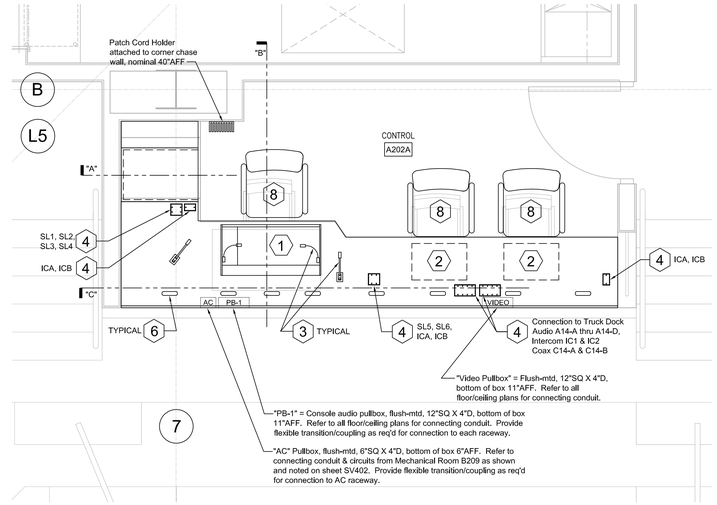
DETAIL 1

No Scale



DETAIL 2

NoO Scale



ARENA CONTROL ROOM A202A - ENLARGED FLOOR PLAN

1/2" = 1'-0"

N
PLAN NORTH

SOUND CONSOLE LEGEND

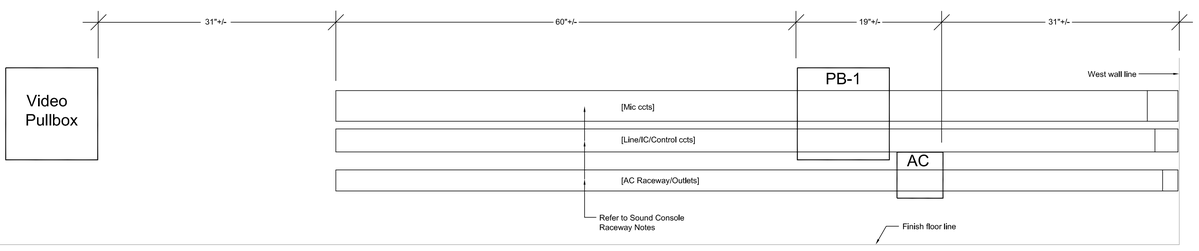
1. 24-Input Audio Mixing Console.
2. Lighting and/or scoreboard control consoles or computers (all by others).
3. Gooseneck Hi-Intensity Lamps.
4. Single-gang, 2-Gang, or 3-Gang plate (as shown) with audio receptacles noted.
5. Wireless Mic Receive Antenna (by Technical System Contractor) aimed down, and mounted at flush wall box above Control Room opening. Antenna shall have line-of-sight to the entire playing floor. Typical of two (WM-A & WM-B). Refer to assocated wall boxes and conduit as shown on Concourse Level RCP, sheet SV112A.
6. Nominal 6"X2" wire-management slots thru counter. Slots by millwork trade as a portion of counter construction work.
7. Additional AC Power strip(s) mounted inside Turret cabinet on floor and/or on wall. Sufficient outlets for all equipment shown, plus 2 spare. By Technical System Contractor.
8. Rolling adjustable chairs.

SOUND CONSOLE NOTES

1. Control Room and internal counter furnished & installed as portion of the project millwork trade as shown on the architectural drawings.
2. AC Power & audio wiring raceways furnished & installed by the project Electrical Contractor as shown and noted on this sheet.
3. As a portion of sound system work, the Technical System Contractor shall furnish and install the custom console turret cabinet as detailed on this sheet. The Technical System Contractor shall coordinate the cabinet installation with the counter, and with work by other trades as required. The cabinet shall be secured as req'd to avoid tipping when the front mounting framework of cabinet is hinged open.
4. The Technical System Contractor shall furnish sound equipment, mounting hardware, engraved plates for audio receptacles and controls, and related low-voltage audio & control circuits.
5. Verify all site conditions in and around the Control Room prior to console cabinet fabrication, and installation of items at counter.
6. All drawings & details are FOR CONCEPT ONLY. Verify sizes of equipment furnished prior to fabrication.
7. Technical System Contractor shall submit shop drawings and obtain approval prior to fabrication of console turret cabinet. Shop drawings shall reflect sound equipment requirements and site conditions.
8. Plastic laminate colors shall be selected by the Architect. Construction shall match millwork furnished by project Millwork Contractor in surrounding spaces. Refer to the project architectural drawings and details.
9. All millwork shall be 3/4" plywood construction with plastic laminate on all exposed surfaces and constructed to meet AWI-400 construction standards.

GENERAL COORDINATION NOTES:

1. Work involving the furnishing & installation of sound & audio/video system equipment in these documents, shall be performed by the using agency's Technical System Contractor. Using agency will separately award such work to Technical System Contractor.
2. The project Electrical Contractor shall furnish and install the complete conduit & electrical infrastructure, to include: conduit, boxes, AC power circuits, insulated ground wires, transformer, sequencing load center, interface with building power, and as shown or noted on the drawings.
3. The Technical System Contractor shall furnish all sound & audio/video system equipment & materials (electronic components, equip. racks, loudspeakers, projectors, low-voltage audio & video signal & control circuit wiring, connectors, etc.), per the sound & audio/video system drawings & specifications.
4. The Technical System Contractor shall coordinate the sound & audio/video system installation work with other trades (ceiling; electrical; mechanical, etc.) involved with the project.
5. This sheet shall be used only to reference conduit & electrical infrastructure supporting the sound & audio/video systems, and to reference the sound & audio/video systems themselves. Refer to other project drawings (architectural, electrical, mechanical, etc.) for other building systems, as required to coordinate with the installation of the conduit & electrical infrastructure, and with the sound & audio/video systems.



SOUND CONSOLE RACEWAY NOTES

Electrical Contractor shall install the following raceway continuously below the south counter and extending fully into and along the rear (west) interior wall of the Sound Console Turret, as shown & noted:

Mic Circuit Raceway: 4" Square plastic slot type, with snap-on front cover; bottom of raceway 16"AFF.

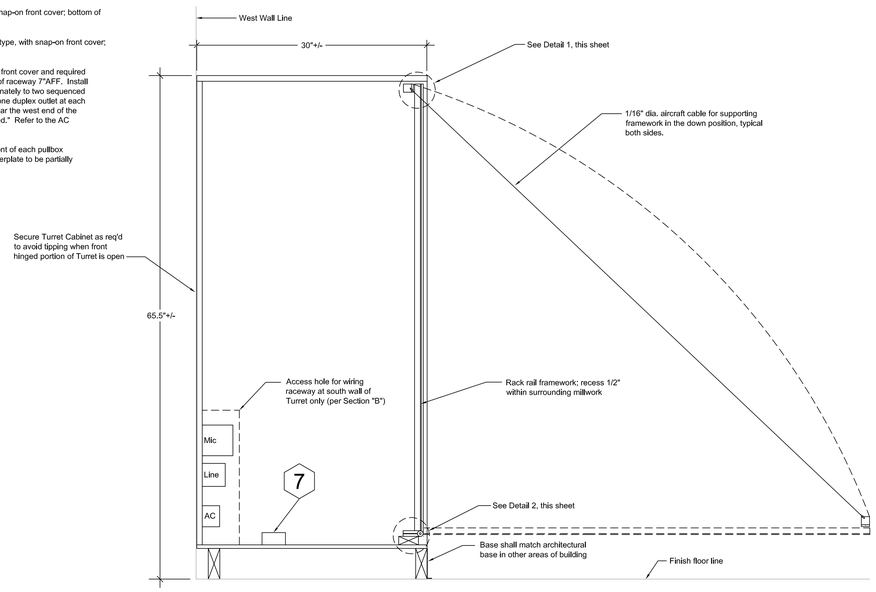
LinE/IC/Control Circuit Raceway: 3" square plastic slot type, with snap-on front cover; bottom of raceway 12"AFF.

AC Raceway: 2.75"H X 1.5"D Metal type, with snap-on front cover and required accessories, equal to Wiremold G-3000 series; bottom of raceway 7"AFF. Install 120VAC 20AMP duplex outlets 12"O.C. connected alternately to two sequenced AC circuits. Also connect one un-sequenced circuit to one duplex outlet at each of three locations: near the east end of the raceway; near the west end of the raceway; and within the turret; label each "Un-sequenced." Refer to the AC Power Diagram for AC Circuits assigned herein.

Flexible Transition/Coupling: Size as req'd, between front of each pullbox coverplate and respective raceway(s), and allowing coverplate to be partially removed to permit service or future wire-pulling.

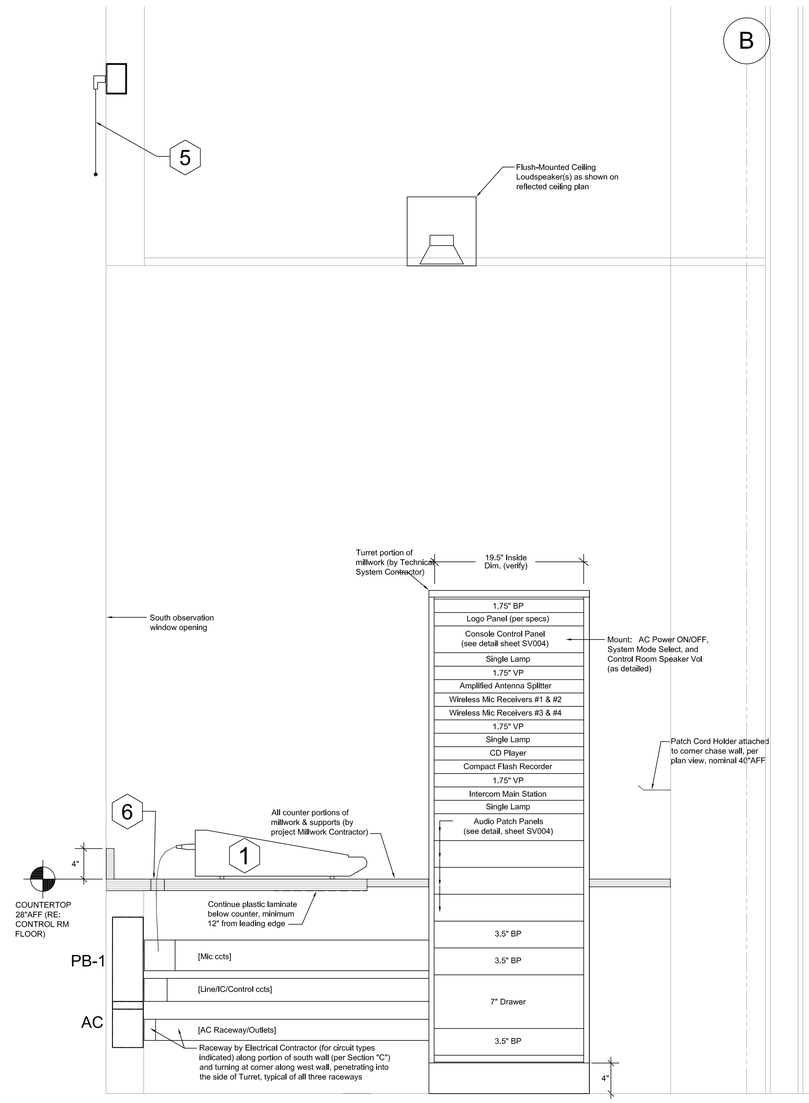
SECTION "C" (LOOKING SOUTH, BELOW FRONT COUNTER)

1.5" = 1'-0"



SECTION "A" (LOOKING NORTH) - SOUND CONSOLE TURRET

1.5" = 1'-0"



SECTION "B" (LOOKING WEST) - SOUND CONSOLE

1.5" = 1'-0"

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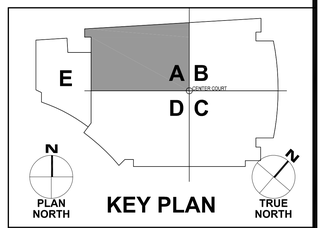

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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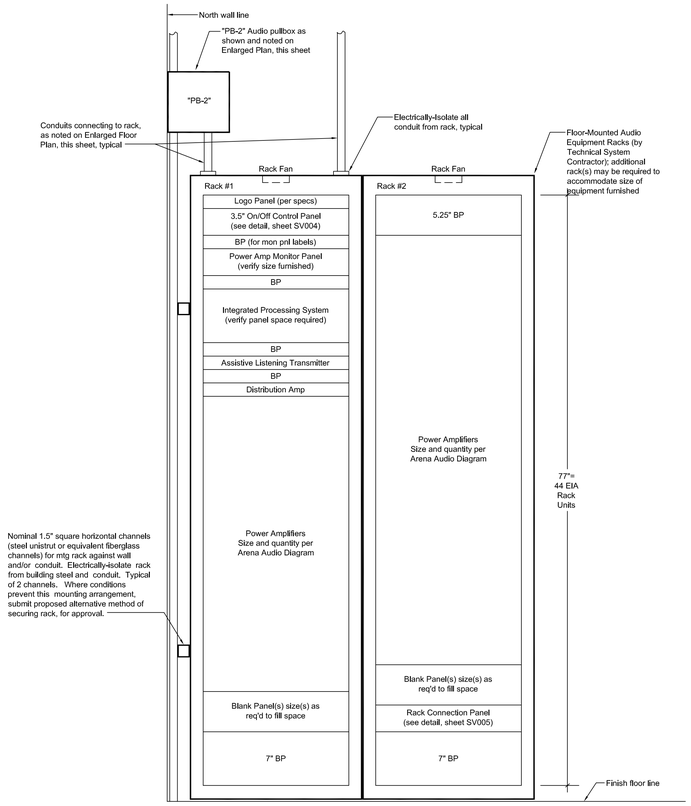
ARENA CONTROL ROOM ENLARGED PLAN & DETAILS

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV401
CHECKED BY: IRW	SCALE AS NOTED	

ADG 06289

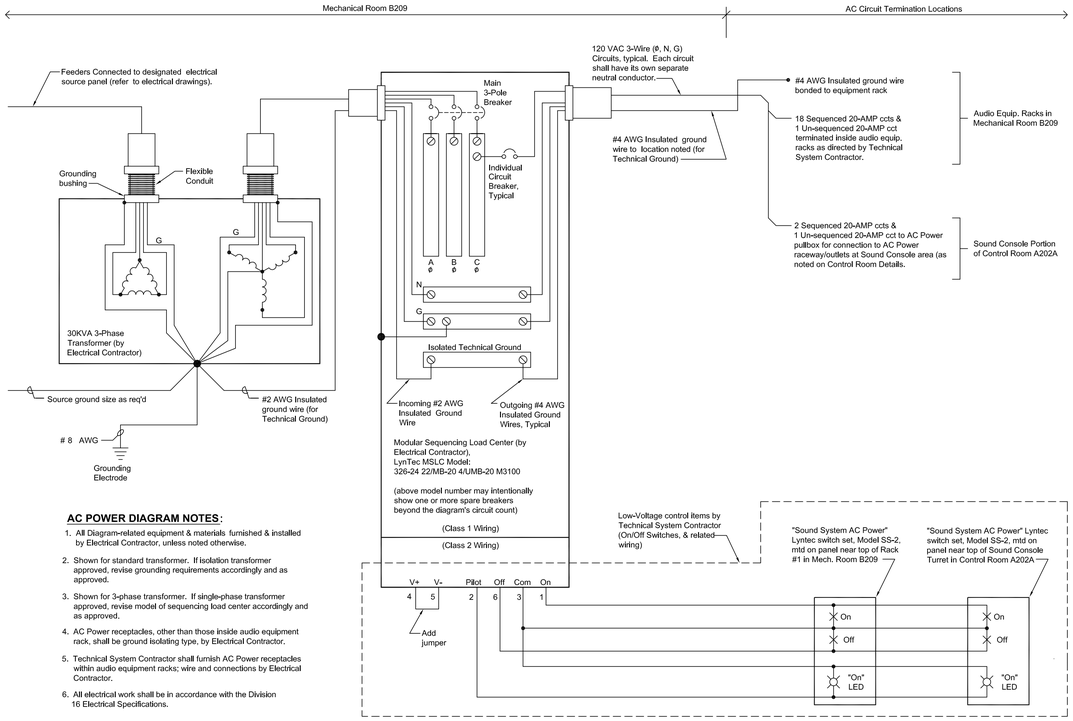


ARENA AUDIO EQUIPMENT RACKS FRONT ELEVATION DETAIL

1.5" = 1'-0" **(Looking East)**

AUDIO EQUIPMENT RACK NOTES:

1. End of racks located against north wall of Mechanical Room B209, as shown on Enlarged Plan, this sheet, and per Floor Plan, sheet SV102B.
2. BP = Blank rack panel.
   VP = Vent rack panel perforated).
3. Rack layout is FOR CONCEPT ONLY to illustrate design intent. The Technical System Contractor shall verify layout for equipment furnished and submit shop drawings.
4. Layout shown is for the convenience of the bidding contractor. If there are differences between this layout and that shown on the audio diagrams, the audio diagrams shall take precedence.
5. Submit proposed layout showing all equipment regardless of alternates installed or not. Install blank rack panels for all alternate equipment not installed.
6. Furnish (and install as directed during system commissioning) perforated security cover (type as specified) to individually cover all rack-mtd equipment having accessible front-panel power on/off switches and other controls. Metal or plastic cover plates or strips furnished by equipment manufacturer, are not acceptable. Examples of items to be covered include: Power Amps: Assistive Listening Transmitter; and Distribution Amp.



AC POWER DIAGRAM NOTES:

1. All Diagram-related equipment & materials furnished & installed by Electrical Contractor, unless noted otherwise.
2. Shown for standard transformer. If isolation transformer approved, revise grounding requirements accordingly and as approved.
3. Shown for 3-phase transformer. If single-phase transformer approved, revise model of sequencing load center accordingly and as approved.
4. AC Power receptacles, other than those inside audio equipment rack, shall be ground isolating type, by Electrical Contractor.
5. Technical System Contractor shall furnish AC Power receptacles within audio equipment racks; wire and connections by Electrical Contractor.
6. All electrical work shall be in accordance with the Division 16 Electrical Specifications.

ARENA SOUND SYSTEM AC POWER DIAGRAM

GENERAL COORDINATION NOTES:

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2. The project Electrical Contractor shall furnish and install the complete conduit & electrical infrastructure, to include: conduit, boxes, AC power circuits, insulated ground wires, transformer, sequencing load center, interface with building power, and as shown or noted on the drawings.
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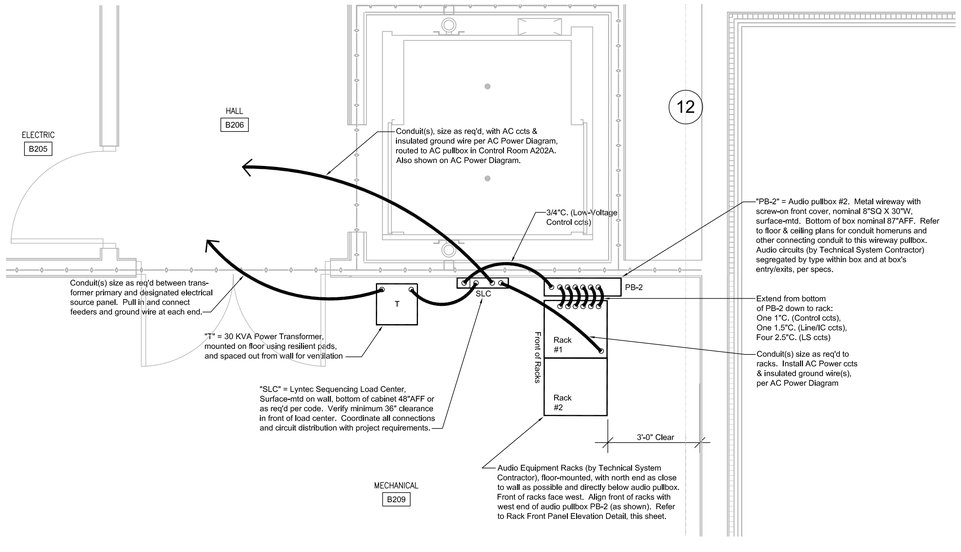
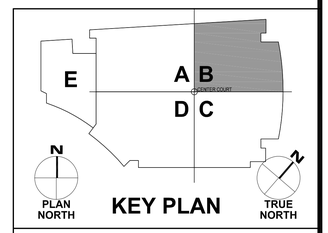


ARENA MECHANICAL ROOM B209 - ENLARGED PARTIAL FLOOR PLAN

Scale: 1/2" = 1'-0"

1. Refer to Sound System AC Power Diagram, this sheet, for add'l electrical requirements.
2. Refer to all plans for add'l conduit connecting to Audio Pullbox PB-2 and the AC Pullbox.
3. Exact conduit connection points to rack, and power & ground termination points inside rack, shall be as directed by Technical System Contractor.
4. Where conduit is run exposed at rack location (such as between sequencing load center and rack), run on wall at minimum 8'-0"AFF or run at underside of ceiling, as conditions require. Conduit from lower floors can enter bottom of Audio Pullbox PB-2. Keep interior walls around rack, clear of conduit and all other items.

N PLAN NORTH



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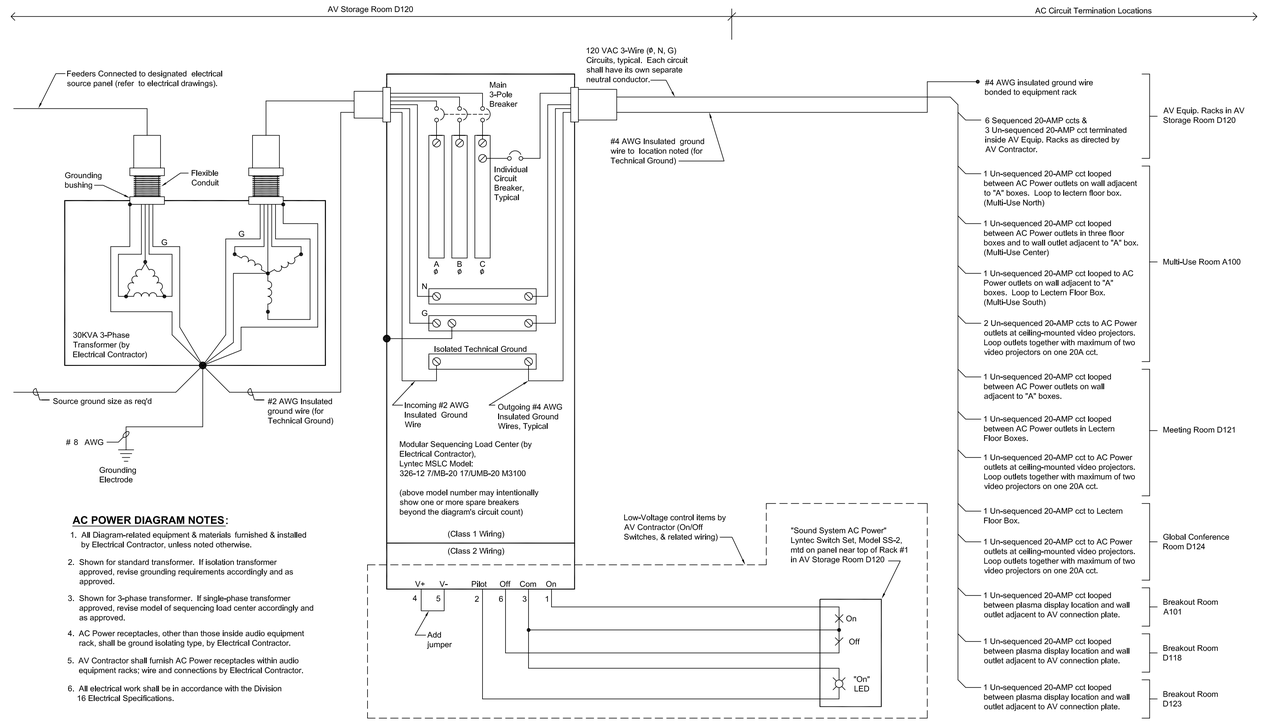
ARENA MECH RM PLAN, RACK DETAIL, AC POWER DIAGRAM

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV402
CHECKED BY: IRW	SCALE: AS NOTED	

ADG 06289



AC POWER DIAGRAM NOTES:

1. All Diagram-related equipment & materials furnished & installed by Electrical Contractor, unless noted otherwise.
2. Shown for standard transformer. If isolation transformer approved, revise grounding requirements accordingly and as approved.
3. Shown for 3-phase transformer. If single-phase transformer approved, revise model of sequencing load center accordingly and as approved.
4. AC Power receptacles, other than those inside audio equipment rack, shall be ground isolating type, by Electrical Contractor.
5. AV Contractor shall furnish AC Power receptacles within audio equipment racks; wire and connections by Electrical Contractor.
6. All electrical work shall be in accordance with the Division 16 Electrical Specifications.

CONFERENCE CENTER AV SYSTEM AC POWER DIAGRAM

AC Power Diagram for reference only. Conference Center AV Not In Contract.

GENERAL COORDINATION NOTES:

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4. The Technical System Contractor shall coordinate the sound & audio/video system installation work with other trades (ceiling; electrical; mechanical, etc.) involved with the project.
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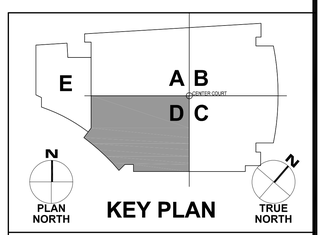

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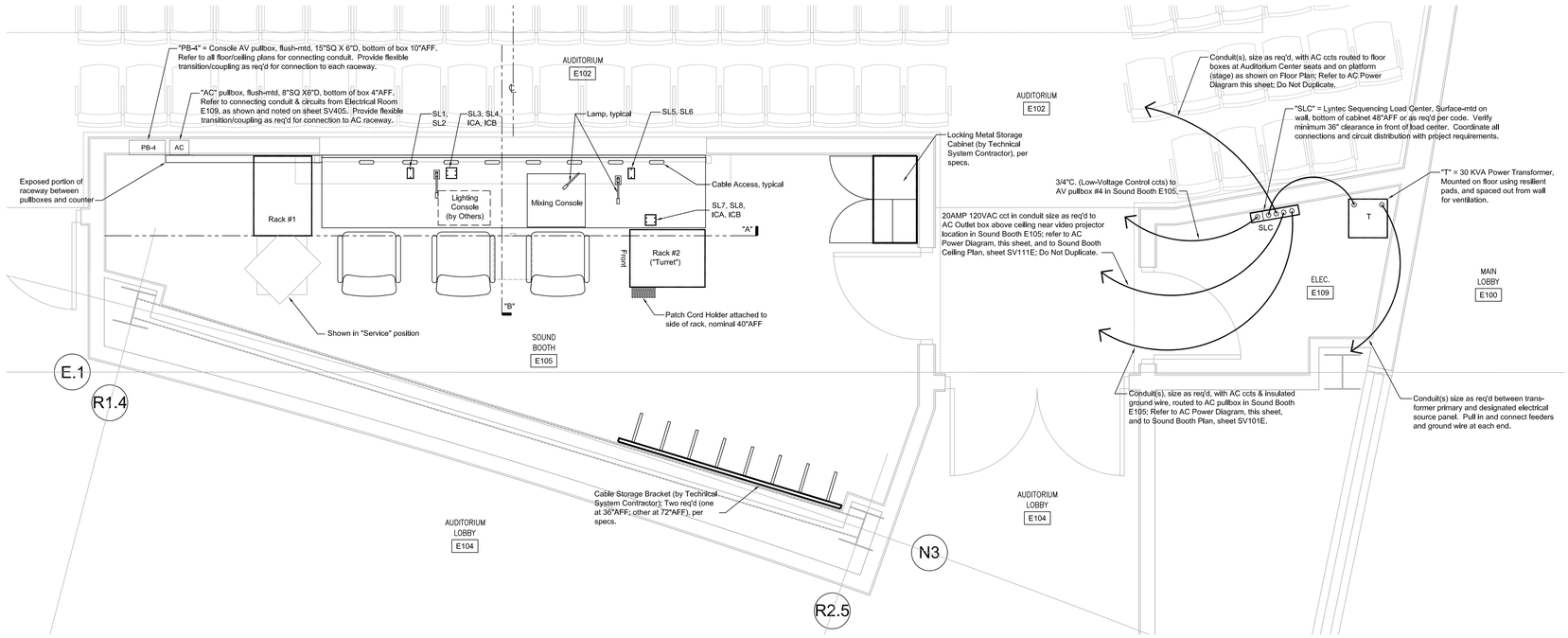
CONFERENCE CENTER
AC POWER DIAGRAM

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV403
CHECKED BY: IRW	SCALE AS NOTED	

ADG 06289



AUDITORIUM SOUND BOOTH E105 & ELECTRICAL ROOM E109 - ENLARGED FLOOR PLAN

1/2" = 1'-0"

SOUND CONSOLE NOTES

1. Control Room and internal counter furnished & installed as portion of the project millwork trade as shown on the architectural drawings.
2. AC Power & audio wiring raceways furnished & installed by the project Electrical Contractor as shown and noted on this sheet.
3. The Technical System Contractor shall furnish sound equipment, mounting hardware, engraved plates for audio receptacles and controls, and related low-voltage audio & control circuits.
4. Verify all site conditions in and around the Control Room prior to console cabinet fabrication, and installation of items at counter.
5. All drawings & details are FOR CONCEPT ONLY. Verify sizes of equipment furnished prior to fabrication.

GENERAL COORDINATION NOTES:

1. Work involving the furnishing & installation of sound & audio/video system equipment in these documents, shall be performed by the using agency's Technical System Contractor. Using agency will separately award such work to Technical System Contractor.
2. The project Electrical Contractor shall furnish and install the complete conduit & electrical infrastructure, to include: conduit, boxes, AC power circuits, insulated ground wires, transformer, sequencing load center, interface with building power, and as shown or noted on the drawings.
3. The Technical System Contractor shall furnish all sound & audio/video system equipment & materials (electronic components, equip. racks, loudspeakers, projectors, low-voltage audio & video signal & control circuit wiring, connectors, etc.), per the sound & audio/video system drawings & specifications.
4. The Technical System Contractor shall coordinate the sound & audio/video system installation work with other trades (ceiling; electrical; mechanical, etc.) involved with the project.
5. This sheet shall be used only to reference conduit & electrical infrastructure supporting the sound & audio/video systems, and to reference the sound & audio/video systems themselves. Refer to other project drawings (architectural, electrical, mechanical, etc.) for other building systems, as required to coordinate with the installation of the conduit & electrical infrastructure, and with the sound & audio/video systems.

SOUND CONSOLE RACEWAY NOTES

Electrical Contractor shall install the following raceway continuously below the north counter, and with an extension along the interior east counter wall (into Rack #2), as shown & noted:

Mic Circuit Raceway: 3" square plastic slot type, with snap-on front cover; bottom of raceway 20"AFF.

Line/IC/Control/Video Circuit Raceway: 3" square plastic slot type, with snap-on front cover; bottom of raceway 16"AFF.

Speaker Circuit Raceway: 3" square plastic slot type, with snap-on front cover; bottom of raceway 12"AFF.

AC Raceway: 2.75"H X 1.5"D Metal type, with snap-on front cover and required accessories, equal to Wiremold G-3000 series; bottom of raceway 6"AFF. Install 120VAC 20AMP duplex outlets 12"O.C. connected alternately to two sequenced AC circuits. Also connect one un-sequenced circuit to one duplex outlet (labeled "Un-sequenced") at each of three accessible locations: one between the AC Pullbox and the counter; two below the counter about 48" each side of the centerline. Refer to the Auditorium AC Power Diagram, sheet SV405, for these AC circuits and other AC circuits routed to the racks via this raceway.

Metallic Conduit(s): Size as req'd for quantity of AC circuits and #4 insulated ground wire to racks (per AC Power Diagram, sheet SV405); extend this conduit from front of AC pullbox coverplate to intermediate j-box, with split to Rack #1 and on to Rack #2. Within the intermediate j-box, split ground wire to each rack.

Flexible Transition/Coupling: Size as req'd, between front of each pullbox coverplate and respective raceway(s) & metallic conduit, and allowing coverplate to be partially removed to permit service or future wire-pulling.

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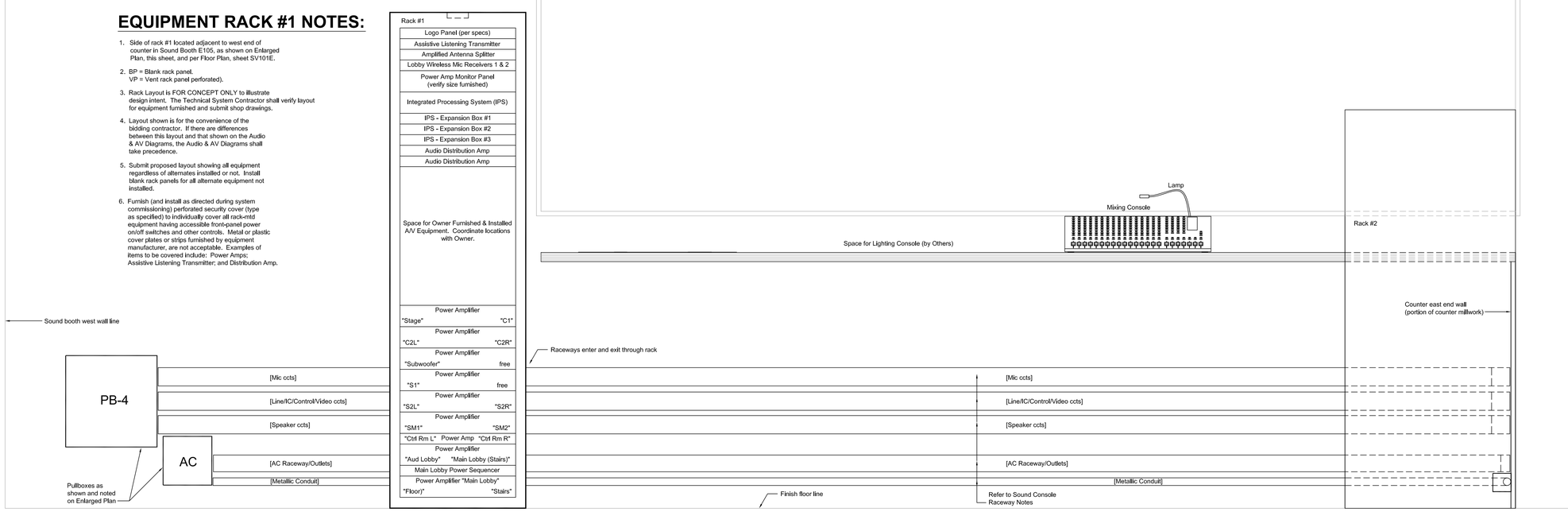
email: adg@adgkc.com

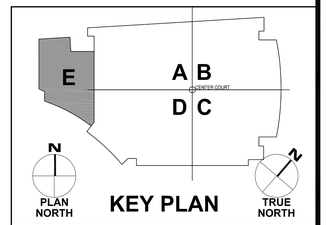
EQUIPMENT RACK #1 NOTES:

1. Side of rack #1 located adjacent to west end of counter in Sound Booth E105, as shown on Enlarged Plan, this sheet, and per Floor Plan, sheet SV101E.
2. BP = Blank rack panel. VP = Vent rack panel perforated).
3. Rack Layout is FOR CONCEPT ONLY to illustrate design intent. The Technical System Contractor shall verify layout for equipment furnished and submit shop drawings.
4. Layout shown is for the convenience of the bidding contractor. If there are differences between this layout and that shown on the Audio & AV Diagrams, the Audio & AV Diagrams shall take precedence.
5. Submit proposed layout showing all equipment regardless of alternates installed or not. Install blank rack panels for all alternate equipment not installed.
6. Furnish (and install as directed during system commissioning) perforated security cover (type as specified) to individually cover all rack-mtd equipment having accessible front-panel power on/off switches and other controls. Metal or plastic cover plates or strips furnished by equipment manufacturer, are not acceptable. Examples of items to be covered include: Power Amps; Assistive Listening Transmitter; and Distribution Amp.



SECTION "A" (LOOKING NORTH)

1.5" = 1'-0"



KEY PLAN

	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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INDIANA UNIVERSITY OF PENNSYLVANIA
CONVOCATION CENTER
INDIANA COUNTY, INDIANA, PENNSYLVANIA

AUDITORIUM SOUND BOOTH ENLARGED PLAN & DETAILS

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV404
CHECKED BY: IRW	SCALE AS NOTED	

ADG 06289

SOUND CONSOLE NOTES

1. Control Room and internal counter furnished & installed as portion of the project millwork trade as shown on the architectural drawings.
2. AC Power & audio wiring raceways furnished & installed by the project Electrical Contractor as shown and noted on this sheet.
3. The Technical System Contractor shall furnish sound equipment, mounting hardware, engraved plates for audio receptacles and controls, and related low-voltage audio & control circuits.
4. Verify all site conditions in and around the Control Room prior to equipment rack installation, and installation of items at counter.
5. All drawings & details are FOR CONCEPT ONLY. Verify sizes of equipment furnished prior to fabrication.

SOUND CONSOLE RACEWAY NOTES

Electrical Contractor shall install the following raceway continuously below the north counter, and with an extension along the interior east counter wall (into Rack #2), as shown & noted:

Mic Circuit Raceway: 3" square plastic slot type, with snap-on front cover; bottom of raceway 20"AFF.

Line/IC/Control/Video Circuit Raceway: 3" square plastic slot type, with snap-on front cover; bottom of raceway 16"AFF.

Speaker Circuit Raceway: 3" square plastic slot type, with snap-on front cover; bottom of raceway 12"AFF.

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Metallic Conduit(s): Size as req'd for quantity of AC circuits and #4 insulated ground wire to racks (per AC Power Diagram, this sheet); extend this conduit from front of AC pullbox coverplate to intermediate j-box, with split to Rack #1 and on to Rack #2. Within the intermediate j-box, split ground wire to each rack.

Flexible Transition/Coupling: Size as req'd, between front of each pullbox coverplate and respective raceway(s) & metallic conduit, and allowing coverplate to be partially removed to permit service or future wire-pulling.

EQUIPMENT RACK #2 NOTES:

1. Side of rack #2 located against east front portion of counter in Sound Booth E105, as shown on Enlarged Plan, sheet SV404, and per Floor Plan, sheet SV101E.
2. BP = Blank rack panel.
   VP = Vent rack panel perforated).
3. Rack Layout is FOR CONCEPT ONLY to illustrate design intent. The Technical System Contractor shall verify layout for equipment furnished and submit shop drawings.
4. Layout shown is for the convenience of the bidding contractor. If there are differences between this layout and that shown on the Audio & AV Diagrams, the Audio & AV Diagrams shall take precedence.
5. Submit proposed layout showing all equipment regardless of alternates installed or not. Install blank rack panels for all alternate equipment not installed.
6. Furnish (and install as directed during system commissioning) perforated security cover (type as specified) to individually cover all rack-mtd equipment having accessible front-panel power on/off switches and other controls. Metal or plastic cover plates or strips furnished by equipment manufacturer, are not acceptable. Examples of items to be covered include: Power Amps; Assistive Listening Transmitter; and Distribution Amp.

GENERAL COORDINATION NOTES:

1. Work involving the furnishing & installation of sound & audio/video system equipment in these documents, shall be performed by the using agency's Technical System Contractor. Using agency will separately award such work to Technical System Contractor.
2. The project Electrical Contractor shall furnish and install the complete conduit & electrical infrastructure, to include: conduit, boxes, AC power circuits, insulated ground wires, transformer, sequencing load center, interface with building power, and as shown or noted on the drawings.
3. The Technical System Contractor shall furnish all sound & audio/video system equipment & materials (electronic components, equip. racks, loudspeakers, projectors, low-voltage audio & video signal & control circuit wiring, connectors, etc.), per the sound & audio/video system drawings & specifications.
4. The Technical System Contractor shall coordinate the sound & audio/video system installation work with other trades (ceiling; electrical; mechanical, etc.) involved with the project.
5. This sheet shall be used only to reference conduit & electrical infrastructure supporting the sound & audio/video systems, and to reference the sound & audio/video systems themselves. Refer to other project drawings (architectural, electrical, mechanical, etc.) for other building systems, as required to coordinate with the installation of the conduit & electrical infrastructure, and with the sound & audio/video systems.

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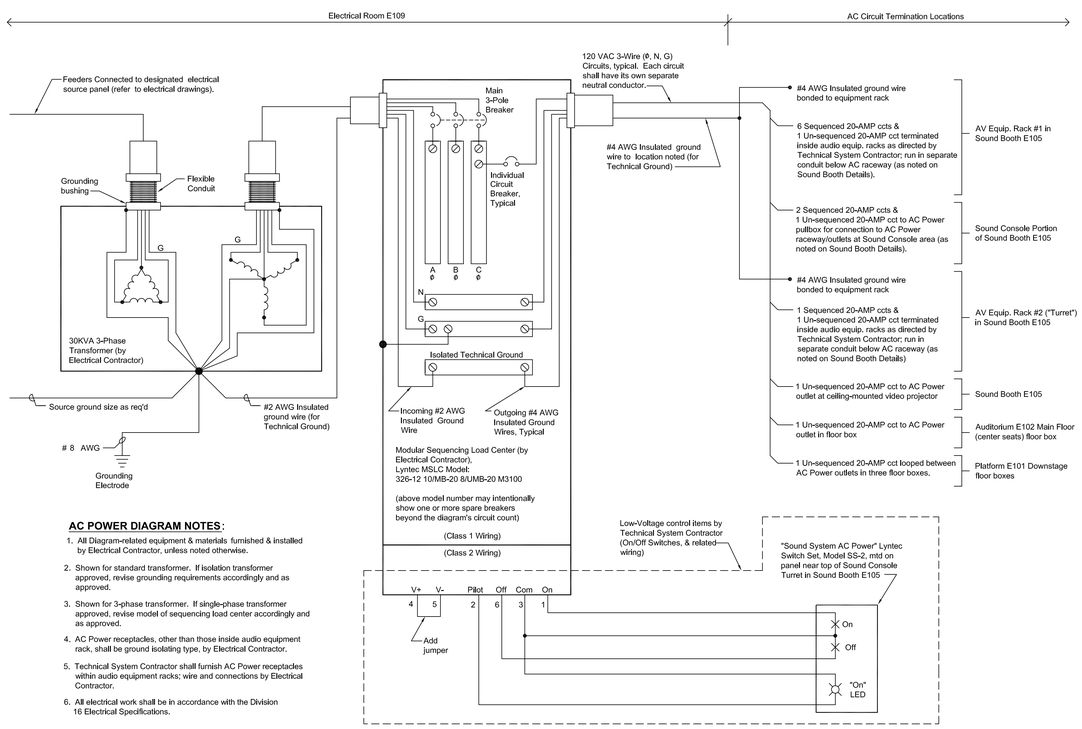
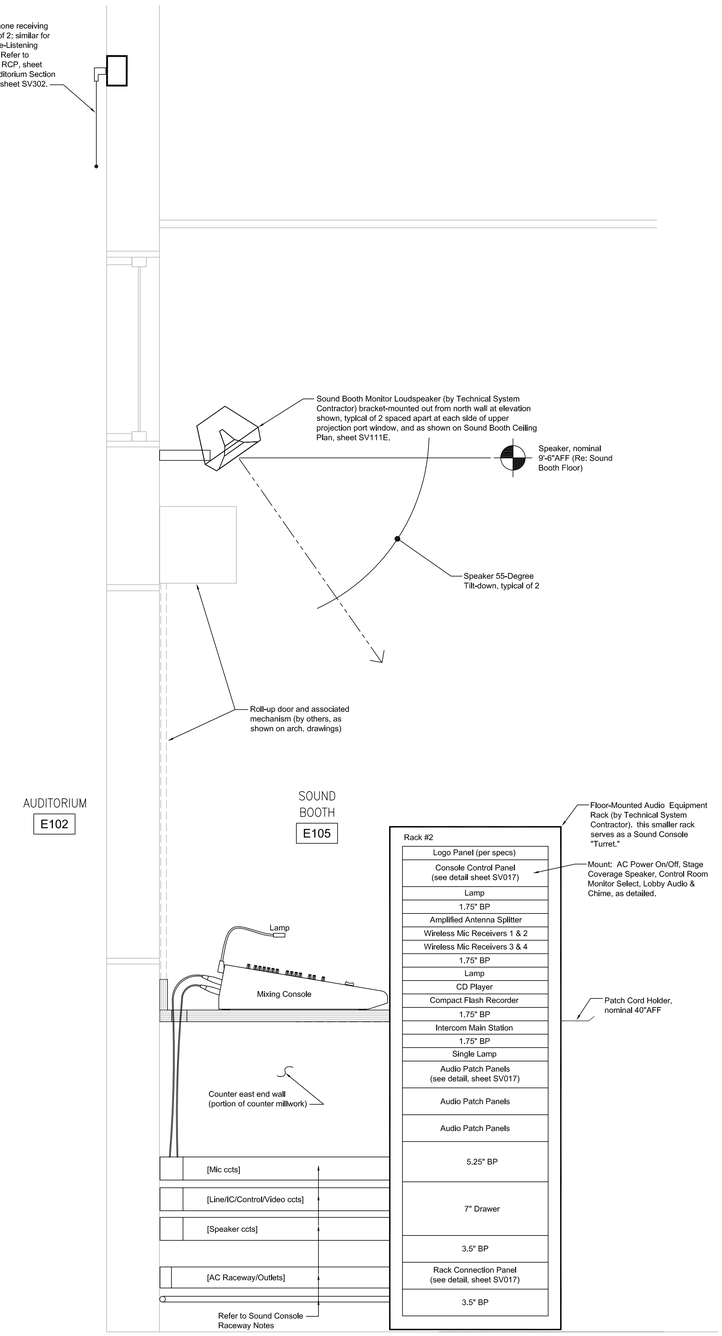


AC POWER DIAGRAM NOTES:

1. All Diagram-related equipment & materials furnished & installed by Electrical Contractor, unless noted otherwise.
2. Shown for standard transformer. If isolation transformer approved, revise grounding requirements accordingly and as approved.
3. Shown for 3-phase transformer. If single-phase transformer approved, revise model of sequencing load center accordingly and as approved.
4. AC Power receptacles, other than those inside audio equipment rack, shall be ground isolating type, by Electrical Contractor.
5. Technical System Contractor shall furnish AC Power receptacles within audio equipment racks; wire and connections by Electrical Contractor.
6. All electrical work shall be in accordance with the Division 16 Electrical Specifications.

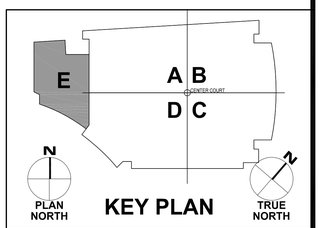
AUDITORIUM AV SYSTEM AC POWER DIAGRAM



SECTION "B" (LOOKING EAST) - SOUND CONSOLE

1.5" = 1'-0"

View looking east toward Rack #2.



	DESCRIPTION		DESCRIPTION

CONSTRUCTION DOCUMENTS

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CONVOCATION CENTER
INDIANA COUNTY, INDIANA, PENNSYLVANIA

AUDITORIUM SECTION "B" & AC POWER DIAGRAM

DRAWN BY:	DATE	DRAWING NO.
GND/EDK	08/05/10	SV405
CHECKED BY: IRW	SCALE: AS NOTED	

ADG 06289