

WATFORD CITY

**HIGH SCHOOL
SUBMITTAL SYSTEM DRAWINGS - MAY 27, 2015**



AVI JOB #:115089



BISMARCK

**1930 EAST CENTURY AVENUE
BISMARCK, ND 58503
PHONE: 701-258-6360 FAX: 701-258-2015
www.avisystems.com**

A/V SYSTEM DESIGNED & ENGINEERED FOR

**WATFORD CITY
HIGH SCHOOL**

☐ PROPOSAL ☐ INTEGRATION

☒ SUBMITTAL ☐ AS BUILT

☐ PRELIMINARY ☐ OTHER:

REVISIONS

[illegible]

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ISSUE: SUBMITTAL

CLIENT: MAGNUM ELECTRIC

OB NUMBER: 115089

ENGINEER: D. EBERLE

RAFTER: R. DELANEY

HECKED BY:

SCALE : N

SYSTEM ID #

FILE SAVE AS:115089 FLOWS

PROJECT NAME:

HIGH SCHOOL

SHEET TITLE:

INDEX SHEET

WG NUMBER:

AV000

INDEX

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AV000	INDEX SHEET
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AV501	GYMNASIUM, CAFETERIA, AND MUSIC ROOM RACK LAYOUTS
AV700	CONNECTOR DETAILS
AV701	AUDITORIUM VIDEO FLOW DIAGRAM
AV702	AUDITORIUM AUDIO FLOW DIAGRAM (1 OF 2)
AV703	AUDITORIUM AUDIO FLOW DIAGRAM (2 OF 2)
AV704	AUDITORIUM CONTROL FLOW DIAGRAM
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AV706	GYMNASIUM AV FLOW DIAGRAM
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PA701	BELL/PA SYSTEM FLOW DIAGRAM
PA702	BELL/PA SYSTEM REMOTE AUDIO FLOW DIAGRAM
PA703	BELL/PA SYSTEM REMOTE CLASSROOM AUDIO FLOW DIAGRAM



A/V SYSTEM DESIGNED & ENGINEERED FOR:

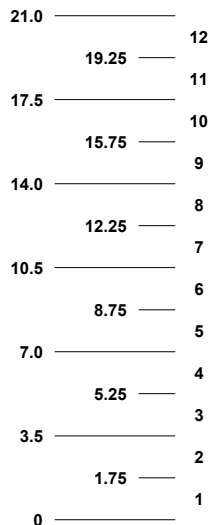
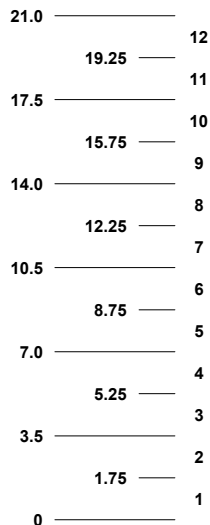
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HIGH SCHOOL

RACK LAYOUTS

AV501



ALTERNATE ONLY



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PROJECT NAME:

SHEET TITLE:

**AUDITORIUM
VIDEO FLOW DIAGRAM**

DWG NUMBER:

The diagram illustrates a television studio control room layout, showing the interconnection of various equipment racks and their locations.

Equipment Racks and Locations:

- EXTRON HDMI DA6 HDMI DA (DESKTOP RACK (ER3))**: Located in the top center. It has an IN HDMI, RS-232 (PHX), 120V (T.B.D. WATTS), and OUT HDMI (1-6) ports.
- EPIPHAN PEARL VIDEO RECORDER (DESKTOP RACK (ER3))**: Located in the top center. It has IN SDI (BNC), VGA (15P) A, HDMI, SDI (BNC), VGA (15P) B, HDMI, L A, R A, L B, R B, AUDIO (RCA), ETHERNET (RJ45), and 19V DC (1 WATTS) ports. It also has OUT DISPLAYPORT 1, DISPLAYPORT 2, (A) USB, and (A) USB ports.
- EXTRON MPS 602 SA SWITCHER (DESKTOP RACK (ER3))**: Located in the bottom center. It has IN 1 (15P), 2 (15P), 3 (HDMI), 4 (HDMI), 5 (HDMI), 6 DTP (RJ45), MIC/LINE (PHX), and AUDIO (PHX) ports. It also has OUT 1 (RJ45) DTP, HDMI (15P) RGB, L, R, L, R, L, R, L, R, RS-232 (PHX), IR (PHX), REMOTE (PHX), and 120V (44 WATTS) ports.
- EXTRON DTP T USW 333 SWITCHER (LOC: LECTERN)**: Located on the left. It has IN 1 RGB/Y/R-Y/B-Y (15P), 2 HDMI, 3 HDMI, AUDIO (3.5MM), RS-232 (PHX), IR (PHX), CONTACT (PHX), TALLY (PHX), RS-232 (PHX), and 12V (8 WATTS) ports. It also has OUT (RJ45) DTP, OVER DTP, and REMOTE ports.
- EPSON Z8455WUNL PROJECTOR (LOC: CEILING)**: Located on the right. It has IN 1 HDMI, 2 SDI (BNC), COMPUTER (15P), R/C/R/P/R, G/Y, B/C/B/P/B, H/C SYNC, V SYNC, S-VIDEO (4P), VIDEO (RCA), RS-232 (9P), REMOTE (3.5MM), LAN (RJ45), WIRELESS (USB A), SERVICE (USB B), IR, and 120V (WATTS) ports. It also has OUT (15P) MONITOR ports.

Signal Paths and Connections:

- Video Paths:**
 - EXTRON DTP T USW 333 SWITCHER (LOC: LECTERN) connects to EXTRON HDMI DA6 HDMI DA (DESKTOP RACK (ER3)) via HDMI.
 - EXTRON HDMI DA6 HDMI DA (DESKTOP RACK (ER3)) connects to EPIPHAN PEARL VIDEO RECORDER (DESKTOP RACK (ER3)) via HDMI.
 - EPIPHAN PEARL VIDEO RECORDER (DESKTOP RACK (ER3)) connects to EXTRON MPS 602 SA SWITCHER (DESKTOP RACK (ER3)) via HDMI.
 - EXTRON MPS 602 SA SWITCHER (DESKTOP RACK (ER3)) connects to EPSON Z8455WUNL PROJECTOR (LOC: CEILING) via HDMI.
- Audio Paths:**
 - FROM AUDIO SYSTEM connects to EPIPHAN PEARL VIDEO RECORDER (DESKTOP RACK (ER3)) via AV702.
 - EXTRON MPS 602 SA SWITCHER (DESKTOP RACK (ER3)) connects to TO AUDIO SYSTEM via AV702.
- Control Paths:**
 - LECTERN MIC connects to MIC PLATE via LOC: LECTERN.
 - WPN (Wireless Presentation Network) connects to EXTRON HDMI DA6 HDMI DA (DESKTOP RACK (ER3)) and EXTRON MPS 602 SA SWITCHER (DESKTOP RACK (ER3)).



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☒ SUBMITTAL ☐ AS BUILT
☐ PRELIMINARY ☐ OTHER:

REVISIONS

#	DATE	DESCRIPTION
0	05/27/15	SUBMITTAL
1	08/27/15	SUBMITTAL

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JOB NUMBER: 115089
ENGINEER: D. EBERLE
DRAFTER: R. DELANEY
CHECKED BY:
SCALE: N/A
SYSTEM ID #:
FILE SAVE AS: 115089_FLOWS

PROJECT NAME:

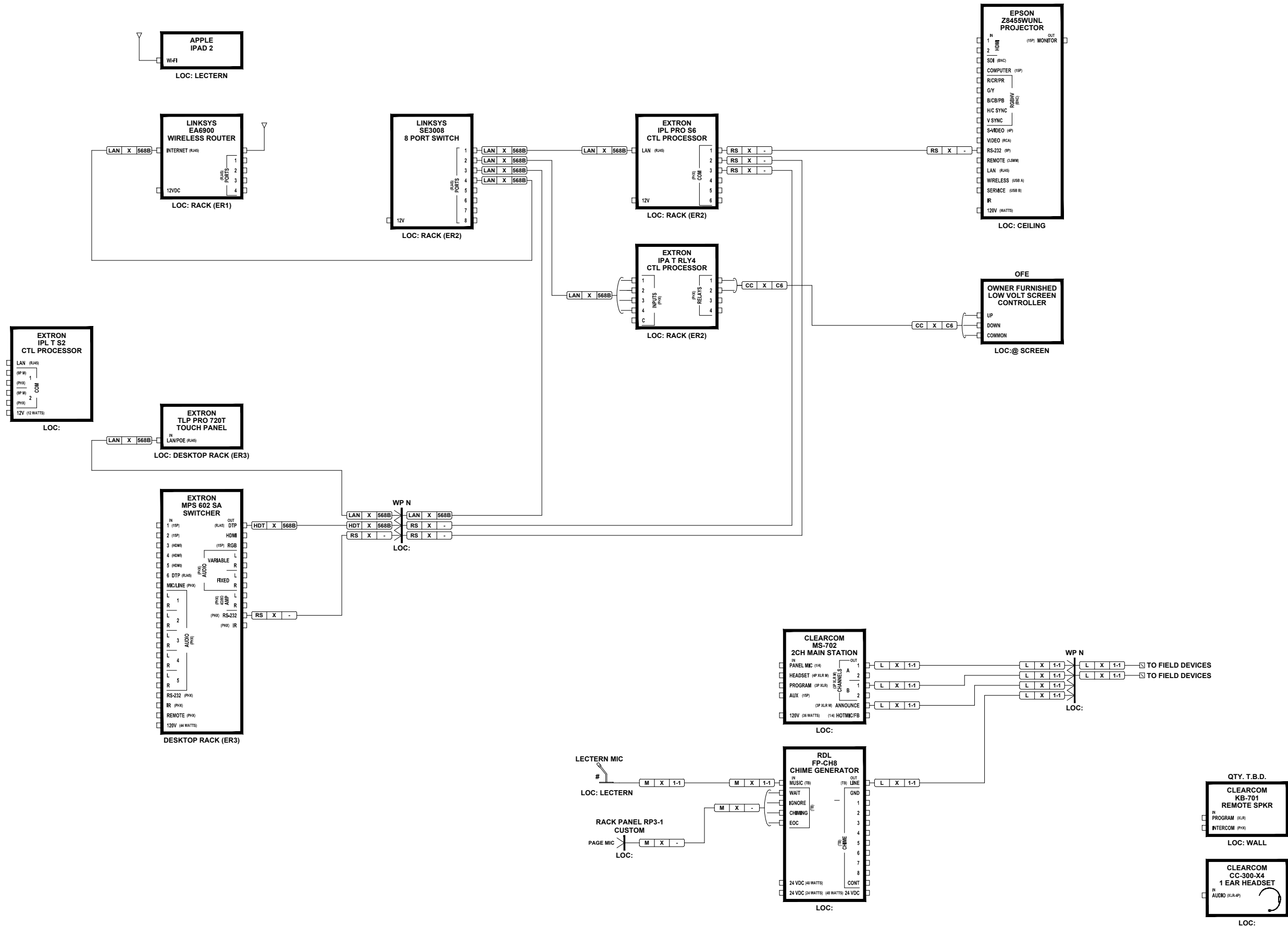
HIGH SCHOOL

SHEET TITLE:

AUDITORIUM
CONTROL FLOW DIAGRAM

DWG NUMBER:

AV704





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- | REVISIONS | | |
|-----------|----------|-------------|
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| 1 | 08/27/15 | SUBMITTAL |

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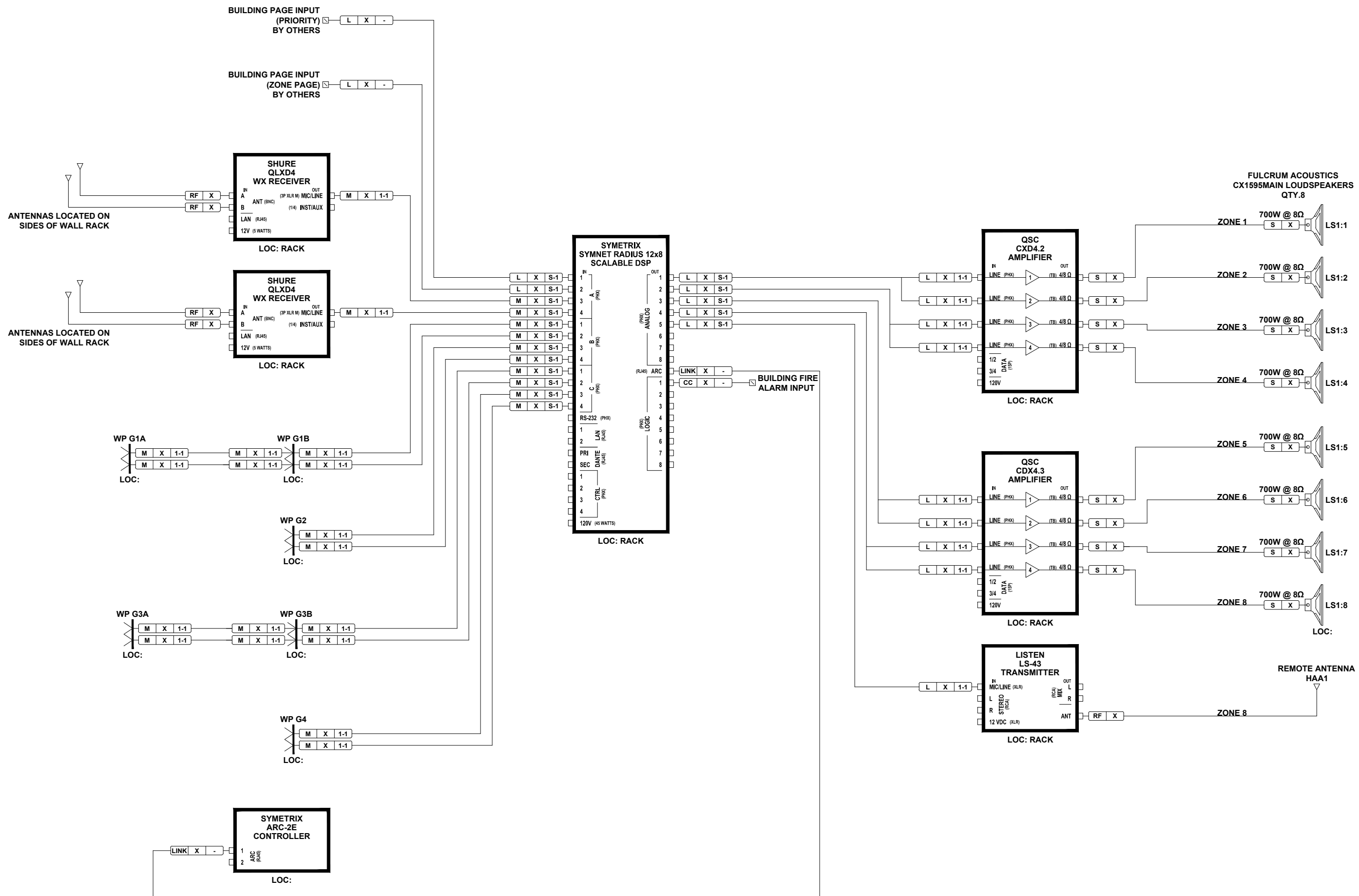
PROJECT NAME:

SHEET TITLE:

GYMNASIUM

AUDIO FLOW DIAGRAM

DWG NUMBER:





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ENGINEER: D. EBERLE

DRAFTER: R. DELANEY

CHECKED BY:

SCALE : N/A

SYSTEM ID #:

PROJECT NAME:

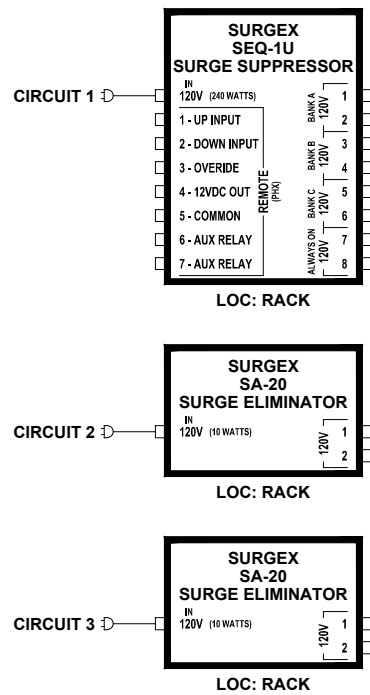
HIGH SCHOOL

SHEET TITLE:

GYMNASIUM POWER FLOW DIAGRAM

DWG NUMBER:

AV707





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PROPOSAL ☐ INTEGRATION
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JOB NUMBER: 115089

ENGINEER: D. EBERLE

DRAFTER: R. DELANEY

CHECKED BY: _____
SCALE: N/A

SYSTEM ID #:

FILE F SAVE AS: 115089.FI QWS

PROJECT NAME:

PROJECT NAME:

HIGH SCHOOL

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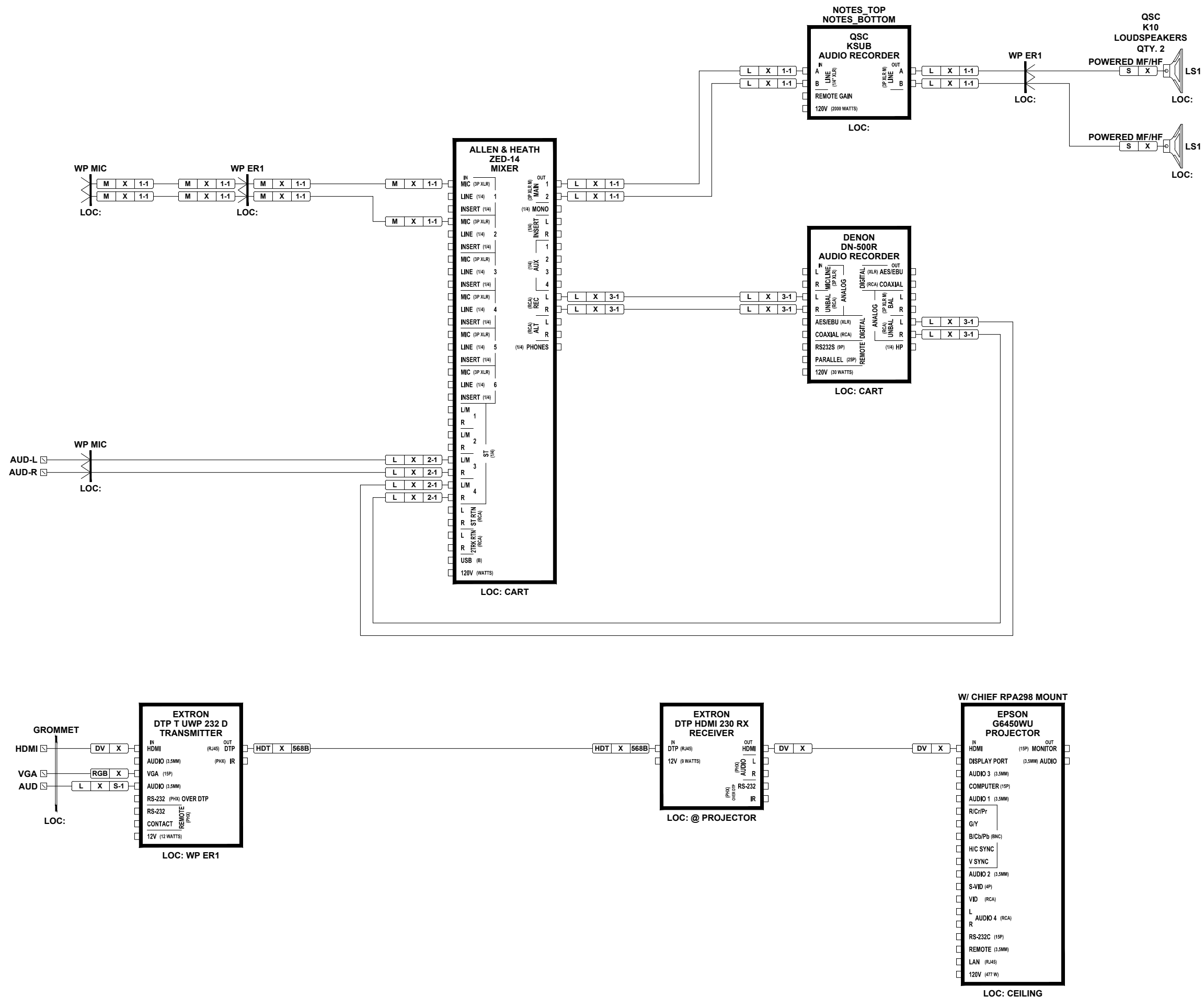
MUSIC ROOM

MUSIC ROOM C

AV FLOW DIAG

DWG NUMBER:

AV300

AV 708



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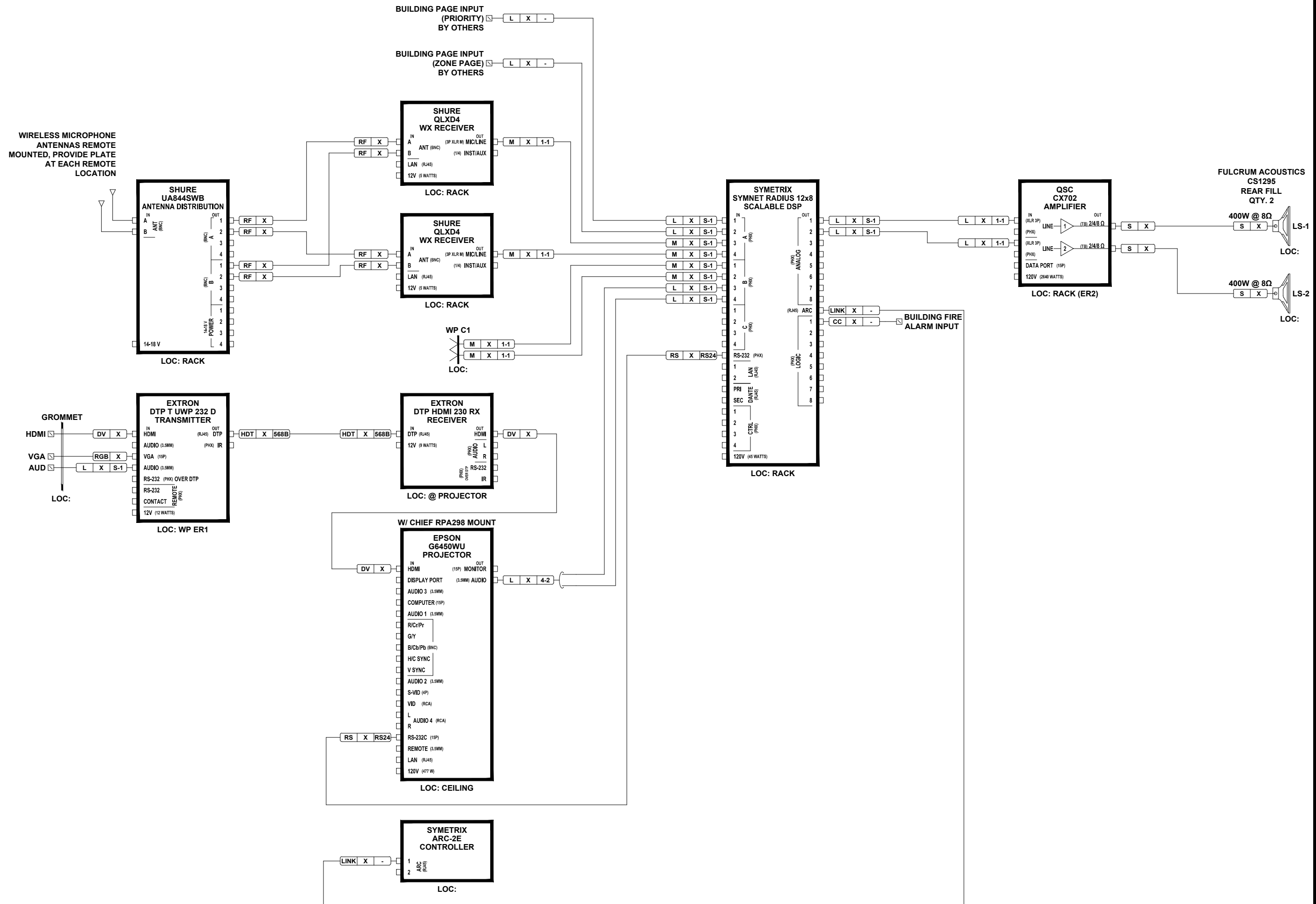
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PROJECT NAME:

SHEET TITLE:

CAFETERIA
AV FLOW DIAGRAM

AV709



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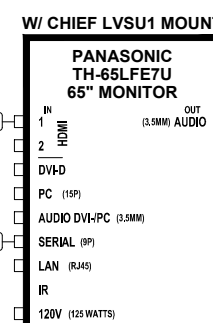
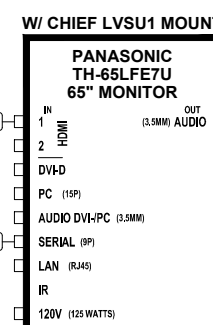
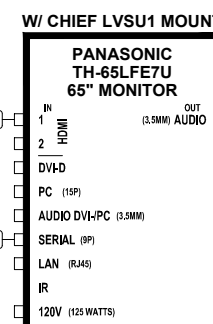
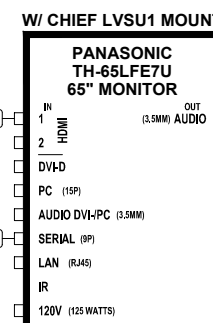
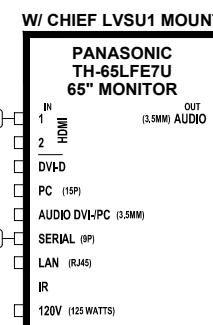
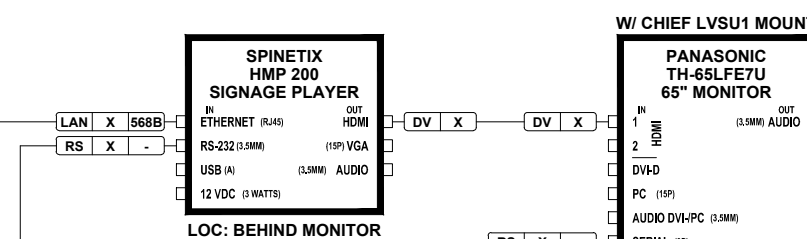
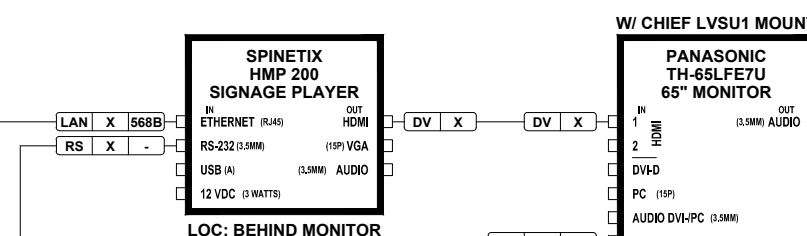
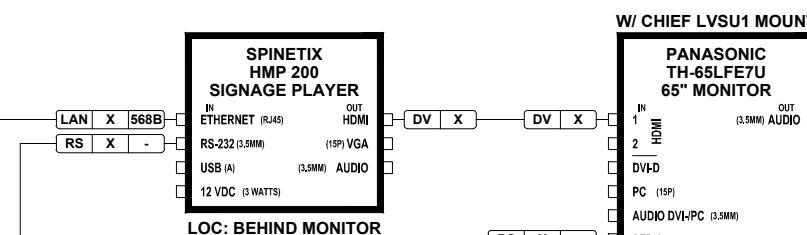
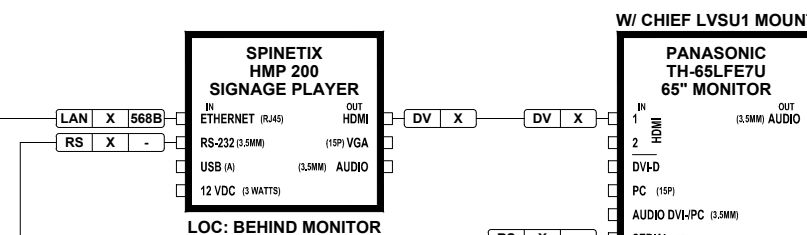
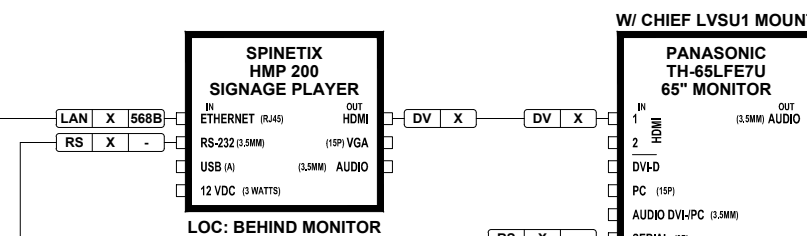
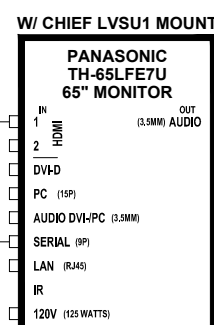
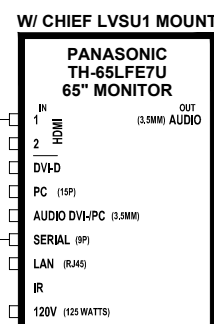
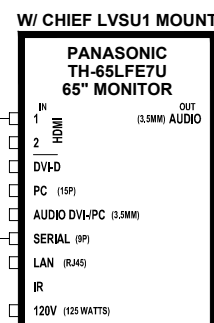
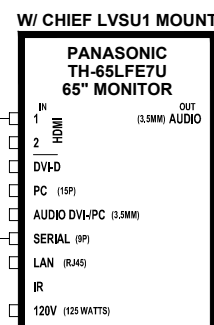
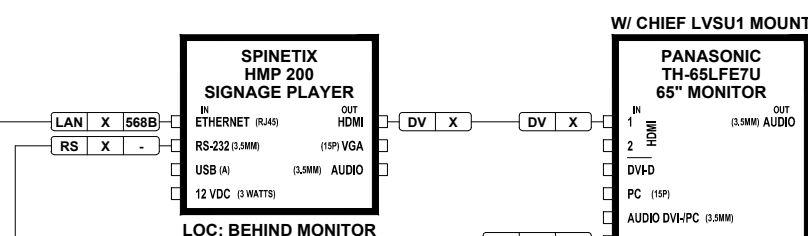
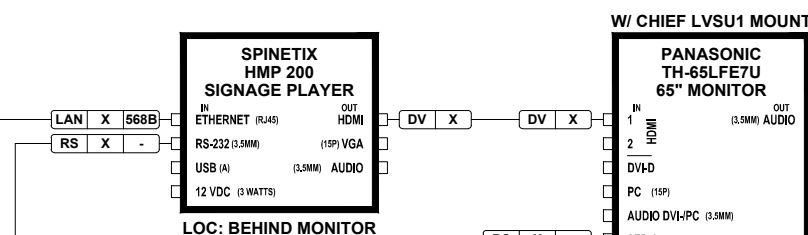
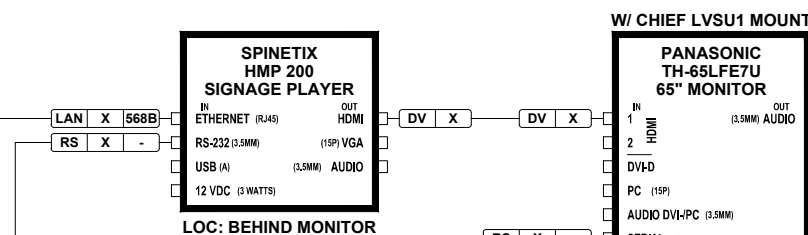
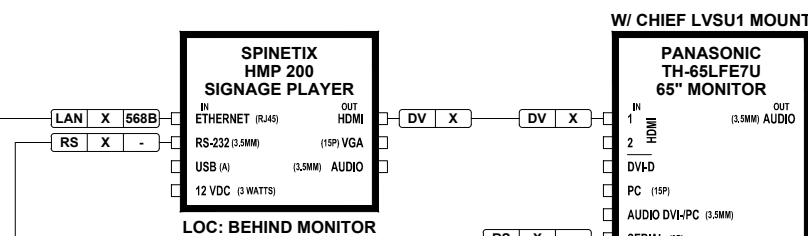
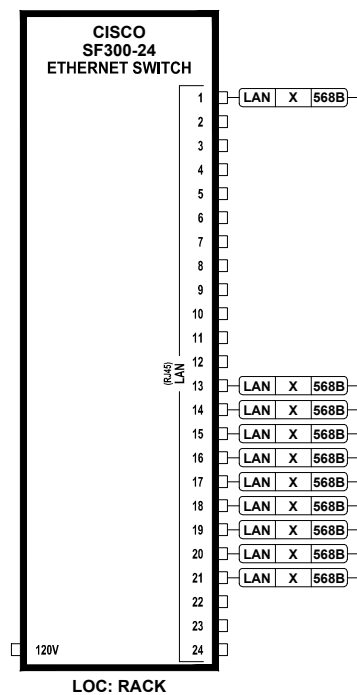
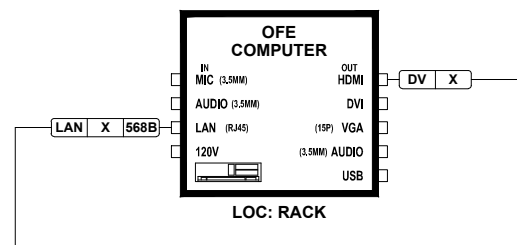
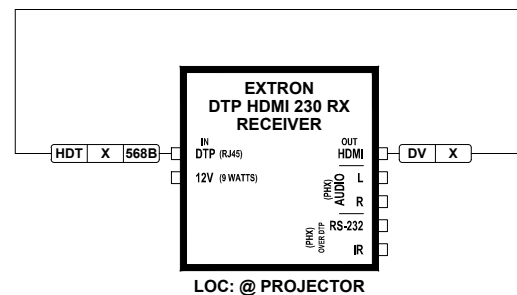
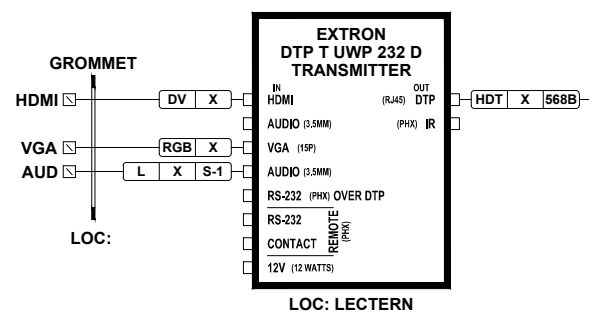
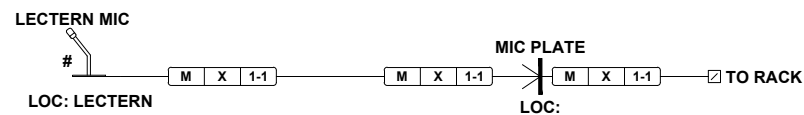
PROPOSAL ☐ INTEGRATION
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PROJECT NAME:

HIGH SCHOOL

SHEET TITLE:

**CAFETERIA- ALTERNATE
VIDEO FLOW DIAGRAM**

DWG NUMBER:

AV711



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HIGH SCHOOL

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FIG. 6. A. 100% AND 50% TREATMENT OF THE 1990-1991 WINTER. B. 100% AND 50% TREATMENT OF THE 1991-1992 WINTER.

SHEET TITLE:

TYPICAL CLASSROOM

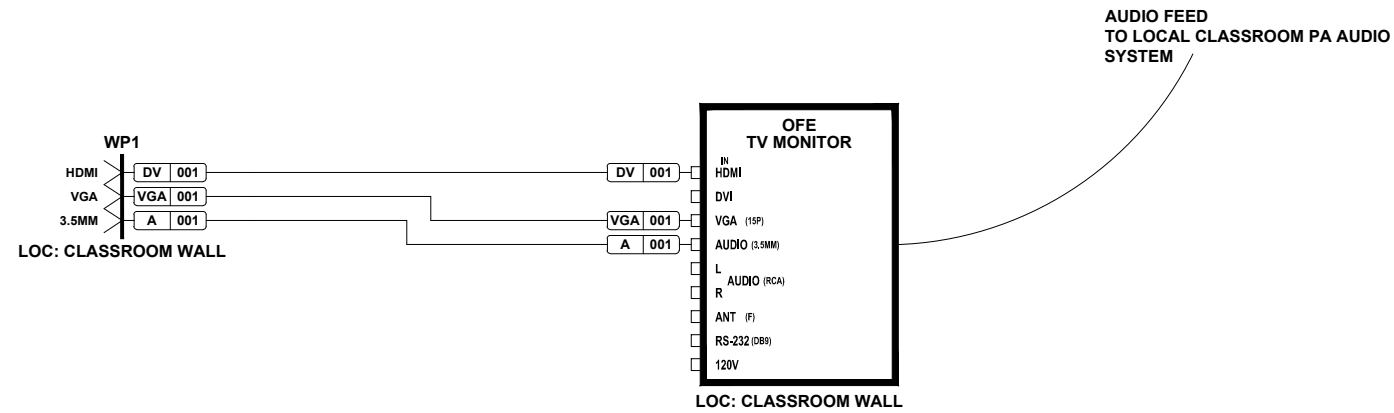
FLOW DIAGRAM

FLOW DIAGRAM

DWG NUMBER:

AV742

AV712





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HIGH SCHOOL

BELL/PA SIGNAL FLOW

AV713