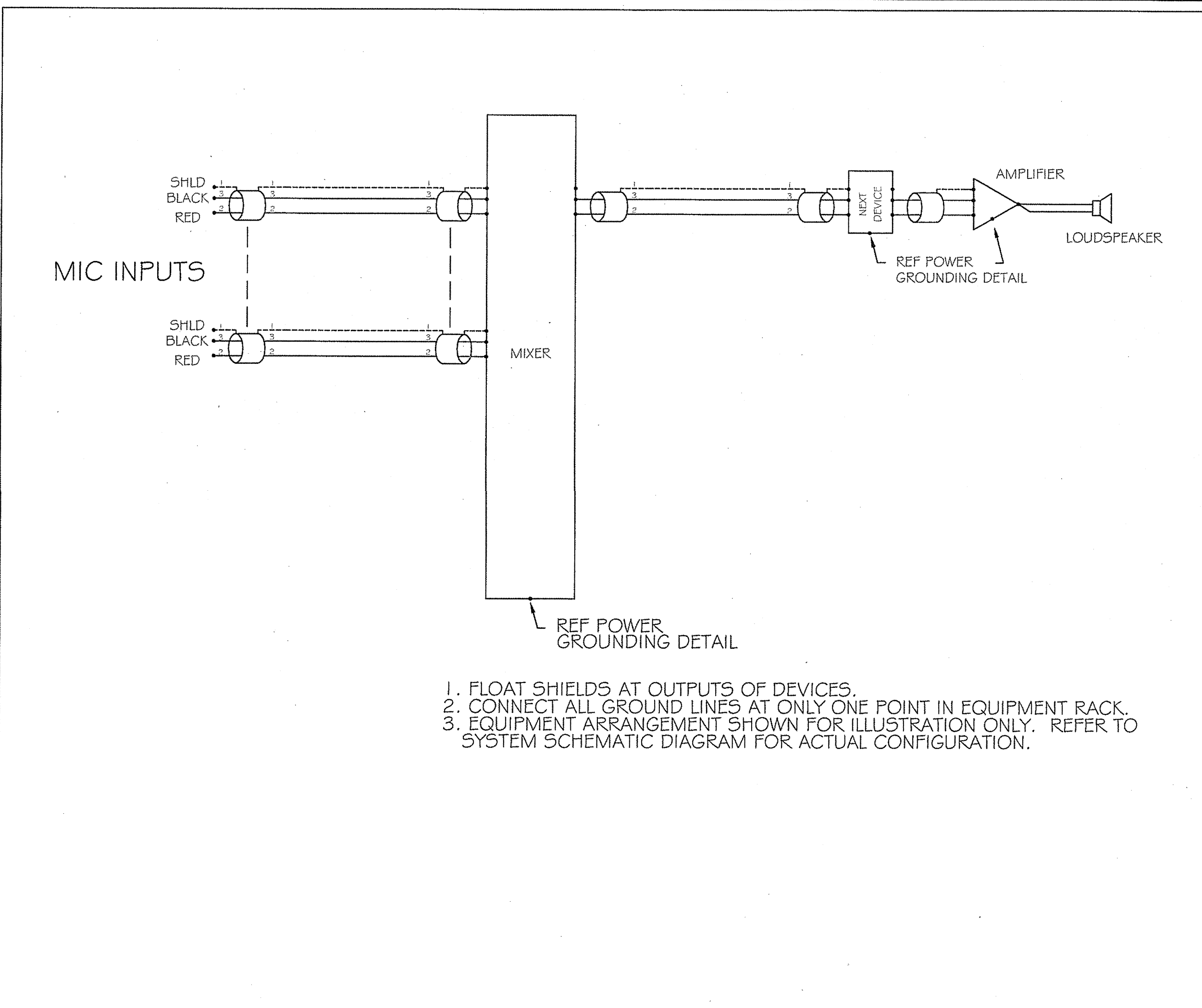


1 SYMBOL LEGEND  
ALL SYMBOLS MAY NOT BE USED



2 SIGNAL GROUNDING DETAIL  
NO SCALE

AVF	ABOVE FINISHED FLOOR
ATT	ATTENUATOR
CASS	CASSETTE
CD	COMPACT DISC
CH	CHANNEL
CCT	CIRCUIT
CV	COMPOSITE VIDEO
DA	DISTRIBUTION AMP
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
G	GROUND
GA	GAUGE
GEN	GENERATOR
HF	HIGH FREQUENCY
HORIZ	HORIZONTAL
ICOMM	INTERCOM
IS	ISOLATED GROUND
JB	INTERCOM JUNCTION BOX
ISO	ISOLATION
LR	LIFT/RIGHT
MIC	MICROPHONE
MP	MIXER
MOD	MODULATOR
MON	MONITOR
MTD	MOUNTED
MTRX	MATRIX
N	NEUTRAL
OFE	OWNER FURNISHED EQUIPMENT
PLT	PLATE
PIL	PANEL
PROJ	PROJECTOR
PS/PSU	POWER SUPPLY UNIT
SJ	SPEAKER JUNCTION BOX
SW	SWITCH
SYNCH	SYNCHRONIZATION
UB	UNDER BALCONY
UNBAL	UNBALANCED
VD	VIDEO
VJ	VIDEO JUNCTION BOX
W	WATT
W/O	WITHOUT

3 ABBREVIATIONS

**GENERAL INFORMATION & DIVISION OF LABOR**

**TERMS:**  
FURNISH = PROVIDE AND INSTALL.  
PROVIDE = DELIVER TO CUSTOMER IN BOX.  
INSTALL = TAKE PROVIDED PIECE AND INSTALL PER DRAWING AND SPEC.

**ELECTRICAL CONTRACTOR:**

- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT AND BOXES ASSOCIATED WITH THE AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS AS SHOWN ON THE DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL SUPPLY ALL JUNCTION BOXES FOR THE AV AND THEATRICAL LIGHTING SYSTEMS WITH APPROPRIATE COVERS.
- ALL CONDUITS NOT SPECIFICALLY IDENTIFIED SHALL BE 3/4".
- ALL CONDUITS BELOW GRADE SHALL BE PVC OR AS REQUIRED BY CODE. ALL CONDUITS ABOVE GRADE SHALL BE EMT OR AS REQUIRED BY CODE.
- NO CONDUIT SHALL BE INSTALLED WITH MORE THAN THREE (3) 90 DEGREE BENDS. IF A CONDUIT RUN REQUIRES MORE THAN THREE BENDS OR IF THE CONDUIT RUN IS IN EXCESS OF 150' IN TOTAL LENGTH, INSERT A PULL BOX OR USE THE NEXT LARGER SIZE CONDUIT.
- ALL CONDUITS TO BE LABELED AT THE SOURCE BOX WITH THE DESTINATION BOX IN A CLEAR AND LOGICAL MANNER.
- ENDS OF ALL CONDUITS ARE TO BE DEBURRED AND SHALL HAVE AN APPROPRIATE BUSHING INSTALLED.
- ELECTRICAL CONTRACTOR SHALL SUPPLY A POLY PULL-LINE IN EACH CONDUIT.
- ALL LINE VOLTAGE WIRE FOR THE SOUND, VIDEO, AND THEATRICAL LIGHTING SYSTEMS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- LINE VOLTAGE CONDUITS SHALL MAINTAIN A MINIMUM OF 24" SEPARATION FROM AUDIO SIGNAL CONDUITS EXCEPT TO CROSS AT 90° ANGLE WHEN NECESSARY.
- ALL AV FLOOR POCKETS INCLUDING COVER PLATES AND LIDS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- PROVIDE A #6 TECHNICAL GROUND WIRE FROM THE INSULATED GROUND BUS BAR IN PANEL B/FV TO THE MAIN AUDIO EQUIPMENT RACKS.

**AV CONTRACTOR:**

- ALL LOW VOLTAGE WIRE FOR THE SOUND AND VIDEO SYSTEMS SHALL BE SUPPLIED AND INSTALLED BY THE AV CONTRACTOR.
- NO WIRE SPLICES IN CONDUIT.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INSTALLATION DETAILS.
- ENGRAVED PANELS IN FLOOR BOXES AND ON WALL PLATES SHALL BE FURNISHED AND INSTALLED BY THE AV CONTRACTOR.

4 DIVISION OF LABOR  
NO SCALE

**CONDUIT SEPARATION DATA**

AUDIO / VIDEO CONDUIT TYPE	POWER CONDUIT TYPE	SEPARATION DISTANCE		
		UNDER 20 AMP	ABOVE 20 AMP	ABOVE 120 AMP
PVC	PVC	4 FT	12 FT	NO
EMT	EMT	2 FT	4 FT	NO
EMT	RIGID	4 IN	1 FT	4 FT
RIGID	RIGID	1 IN	4 IN	16 IN

\* AMPERAGE IN CONDUIT IS THE SUM OF ALL CURRENT CONDUCTORS IN THE PIPE. NO DESIGNATES A CONDITION THAT SHOULD NOT BE DONE.

**CONDUIT LOCATION SEPARATION DATA**

POWER CONDUIT TYPE	AV EQUIPMENT LOCATION	UNDER 60 AMP	60 TO 120 AMP
EMT	CONTROL ROOM	OK	30 IN
RIGID STEEL	CONTROL ROOM	OK	OK
EMT	HOUSE MIX/PULL PATH	OK	4 FT
RIGID STEEL	HOUSE MIX/PULL PATH	OK	1 FT
EMT	PLATFORM, PIT	OK	4 FT
RIGID STEEL	PLATFORM, PIT	OK	1 FT
EMT	EQUIPMENT ROOMS	OK	30 IN
RIGID STEEL	EQUIPMENT ROOMS	OK	OK

NO LARGE POWER TRANSFORMERS OR MOTORS SHOULD BE LOCATED WITHIN 50 FEET OF RECORDING OR BROADCAST STUDIOS, STAGES, WORSHIP PLATFORMS, CONTROL ROOMS, AV EQUIPMENT ROOMS, OR SOUND CONTROL POSITIONS.

**POWER CONDUCTOR SIZING DATA**

DISTANCE	CONDUCTOR SIZE
0' - 100'	#12 AWG CONDUCTORS
100' - 175'	#10 AWG CONDUCTORS
175' - 250'	#8 AWG CONDUCTORS
250' - 400'	#6 AWG CONDUCTORS

\* CONDUCTOR SIZING BASED ON 1200W LOAD @ 120V AC

5 CONDUIT SEPARATION DETAIL / DATA.  
NO SCALE

**MONOING NETWORK DETAIL**

NO SCALE

**MONOING NETWORK DETAIL**

NO SCALE

**MONOING NETWORK DETAIL**

NO SCALE

**TYPICAL EQUIPMENT LABEL**

NO SCALE

PA-6A  
TO SPKRS HF1 - HF7

SCHEMATIC DESIGNATION  
FUNCTION

NOTE: CHARACTERS TO BE 1/8" HIGH

8 TYPICAL EQUIPMENT LABEL  
NO SCALE

**CONDUIT SIZE AND WIRE PULL DETAIL**

NO SCALE

**CONDUIT SIZE AND WIRE PULL DETAIL**

NO SCALE

**AV DRAWING INDEX**

AV100	DETAILS / SYMBOLS / DIVISION OF LABOR
AV101	AUDIO MAIN SCHEMATIC AUDITORIUM
AV102	AUDIO SECONDARY SCHEMATIC AUDITORIUM
AV103	AUDIO / VIDEO SCHEMATIC LOBBY
AV201	AUDIO / VIDEO AUDITORIUM CONDUIT AND BOX LOCATIONS FLOOR PLAN
AV202	AUDIO / VIDEO AUDITORIUM CONDUIT AND BOX LOCATIONS BOOTH LEVEL PLAN
AV203	AUDIO / VIDEO AUDITORIUM CONDUIT AND BOX LOCATIONS CATWALK LEVEL PLAN
AV211	AUDIO / VIDEO DETAILS, LEGENDS, AND SCHEDULES
AV220	ILS AUDITORIUM CONDUIT AND BOX LOCATIONS FLOOR PLAN
AV301	AUDIO / VIDEO EQUIPMENT LOCATIONS AND DETAILS
AV401	RACK AND TECHNICAL POWER DETAILS
AV501	AUDITORIUM TOUCH PANEL LAYOUTS
TL100	THEATRICAL LIGHTING CONTROL SCHEMATIC
TL201	THEATRICAL LIGHTING FIRST FLOOR LOCATIONS
TL202	THEATRICAL LIGHTING SECOND FLOOR LOCATIONS
TL203	THEATRICAL LIGHTING CATWALK LEVEL LOCATIONS

10 DRAWING INDEX

Acoustics By Design  
Consultants in  
and Technical  
124 Fulton St.  
Grand Rapids, MI 49503  
(616) 241-5111

**ACOUSTICS  
BY DESIGN**

DATES OF ISSUE

NO.	DATE	DESCRIPTION
1	5-7-09	GC REVIEW
2	6-12-09	OWNER REVIEW
3	6-24-09	BIDS & CONSTRUCTION
4		
5		
6		
7		
8		
9		
10		

Copyright 2009 Acoustics By Design, Inc. All information on this drawing is the exclusive property of Acoustics By Design, Inc. and is furnished for use on the above project only. No part of this drawing may be duplicated without written consent from Acoustics By Design, Inc.

WAYLAND HIGH SCHOOL  
HIGH SCHOOL ADDITIONS AND REMODELING  
WAYLAND, MICHIGAN

Designed by: TGH, 55  
Drawn by: DWB  
Checked By: TGH, 55  
Sheet Title: DETAILS / SYMBOLS / DIVISION OF LABOR

Date Drawn: 04-16-2009

Sheet No. 1 of 16  
Drawing Scale: NONE

**AV100**