

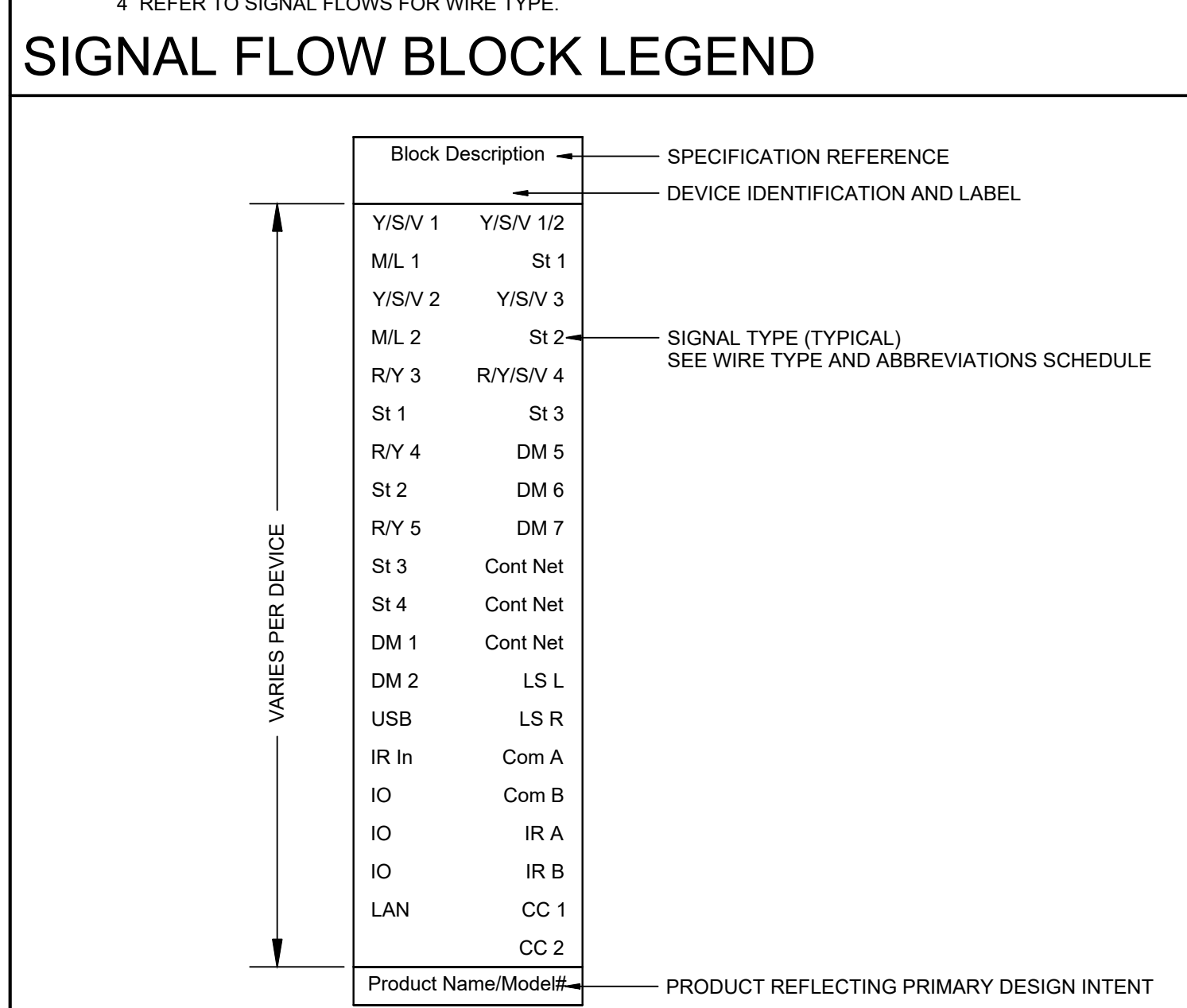
GENERAL NOTES

- SPECIFICATION REFERENCES:**
- REFER TO DIVISION 27 SPECIFICATION SECTION "AUDIO VIDEO SYSTEMS" AND RELATED DOCUMENTS AND SECTIONS FOR PRODUCT INFORMATION AND ADDITIONAL REQUIREMENTS.
 - CATEGORY AND FIBER CABLING SHALL BE INSTALLED, TERMINATED, AND TESTED PER DIVISION 27 SECTION "AUDIO VIDEO SYSTEMS".
- GENERAL PATHWAY NOTES:**
- ALL BUILDING INFRASTRUCTURE, CONDUIT, AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, RACEWAYS, CABLE TRAYS, PEDESTALS, BACK BOXES, JUNCTION BOXES, FLOOR BOXES, DOORS, LIDS, AND COVERS ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET.
 - REFER TO "CONDUIT ROUTING AND SEPARATION" ON THIS SHEET FOR CONDUIT SPACING INFORMATION.
 - PROVIDE CLEAR CABLE PATH FOR ENTIRE LENGTH OF CABLE RUN.
 - COORDINATE ANY CONFLICTS WITH APPROPRIATE DISCIPLINES.
 - REFER TO AS-BUILTS AND CONDUCT SITE REVIEW FOR LOCATION OF FIRE- AND SMOKE-RATED WALLS AND FLOORS. PROVIDE LISTED FIRESTOPPING SYSTEMS FOR PENETRATIONS PER DIVISION 27 SPECIFICATION SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS".
- BOX SCHEDULE NOTES:**
- VERIFY QUANTITIES, LOCATIONS, AND MOUNTING WITH PLAN, DETAIL, AND EQUIPMENT VENDOR DRAWINGS.
 - ALL BOXES SHOWN IN SCHEDULE ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET.
 - FIELD VERIFY MOUNTING CONDITIONS AND BOX SIZE PRIOR TO INSTALLATION.
 - WALL MOUNTED BOXES SHOWN AT SWITCH OR CONVENIENCE OUTLET HEIGHT SHALL MATCH MOUNTING HEIGHT OF ADJACENT BOXES ON WALL UNLESS OTHERWISE NOTED.
 - WALL MOUNTED TERMINATION GANG BOXES SHALL BE MOUNTED 18" A.F.F. TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
 - WALL MOUNTED TERMINATION NEMA AND MANUFACTURER SPECIFIC BOXES SHALL BE MOUNTED 16" A.F.F. TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.
 - SURFACE MOUNTED BOXES SHALL BE PAINTED TO MATCH SURROUNDING FINISH.
 - COORDINATE ANY CONFLICTS WITH APPROPRIATE DISCIPLINES.

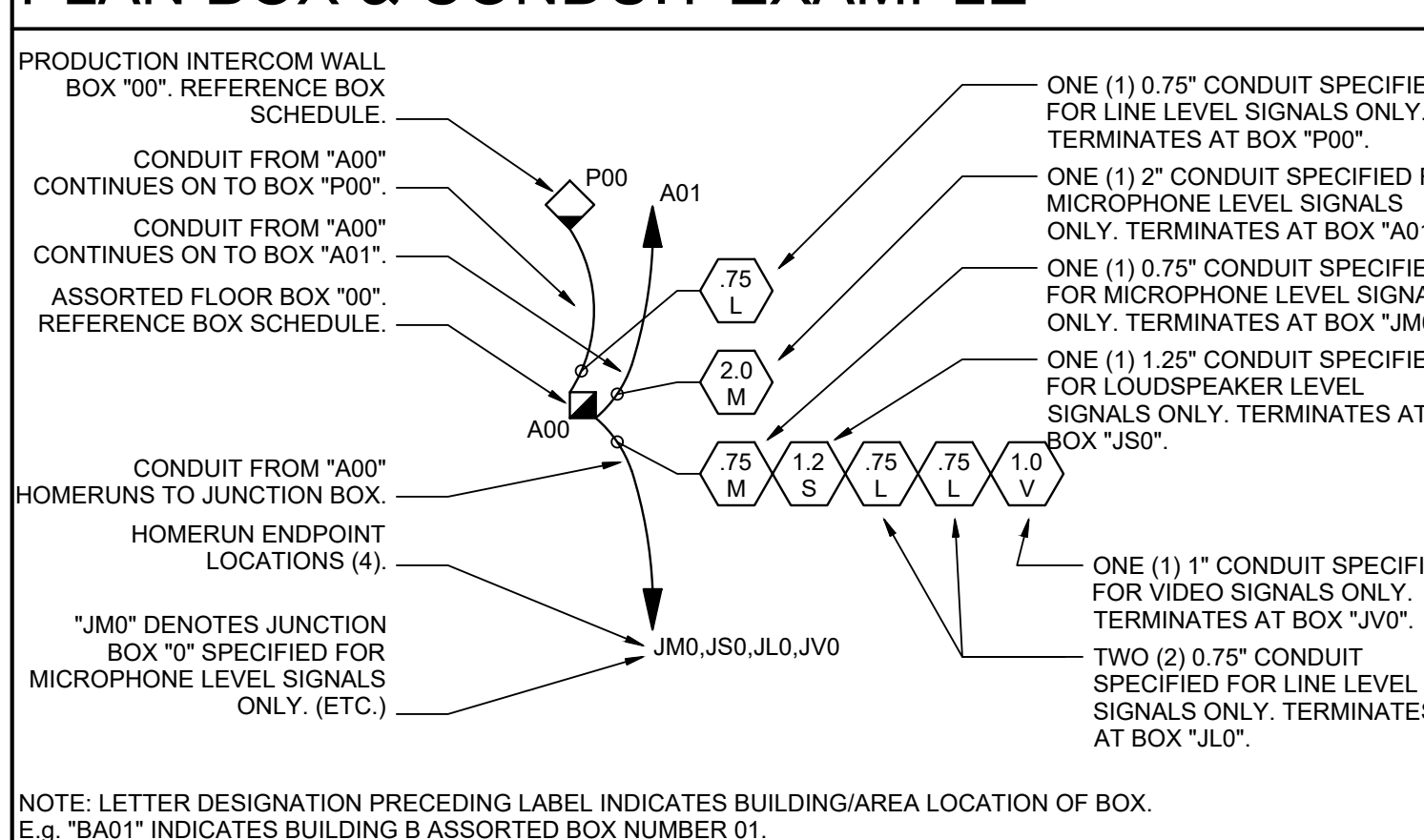
WIRE TYPE AND ABBREVIATIONS

(NOTE 1)	ABBREVIATION DEFINITION OR SIGNAL TYPES	WIRE TYPE	(NOTE 2)
AB	AUDIO SIGNAL OVER BLU LINK, QLAN, NEXLINK, ACE, ANET-16 OR ANET-64	CAT6 STP	90m
AEC	ACOUSTIC ECHO CANCELING SIGNAL	-	-
AES	DIGITAL AUDIO OVER AES FORMAT	22 AWG	100m
AN	AUDIO SIGNAL OVER ANET-6	CAT6 STP	90m
CC	RELAY OR CONTACT CLOSURE CONTROL SIGNAL	22 AWG	90m
Com	CONTROL SIGNAL (RS232, RS422, RS485)	22 AWG	90m
Ctl	CONTROL SIGNAL OVER CRESNET, RGB, OR AXLINK	PREMADE	(NOTE 3)
D	DVI VIDEO SIGNAL	PREMADE	25'
DM	DIGITAL MEDIA AUDIO/VIDEO/CONTROL SIGNAL	PREMADE	90m
DP	DISPLAY PORT SIGNAL	PREMADE	3m
FW	FIREWIRE IEEE 1394	PREMADE	4.5m
GP/IO	GP/RS232/IO GENERAL PURPOSE INPUT AND/OR OUTPUT	CAT6	(NOTE 4)
H	HDMI VIDEO/AUDIO SIGNAL	PREMADE	(NOTE 3)
HDSDI	HD-SDI PER SMPTE 292M	RG-59	300'
		RG-6	370'
		RG-11	580'
		22 AWG	90m
IC	INTERCOM (PRODUCTION)	PREMADE	90m
IR	INFRARED CONTROL SIGNAL	22 AWG	90m
IO	VARIABLE VOLTAGE CONTROL SIGNAL	22 AWG	90m
L	LINE LEVEL AUDIO SIGNAL	CAT6	90m
LAN	ETHERNET	22 AWG	90m
LS	LOUDSPEAKER LEVEL AUDIO SIGNAL 2/4/8/16OHM	(NOTE 4)	90m
LS70	LOUDSPEAKER LEVEL AUDIO SIGNAL 70V	(NOTE 4)	90m
M	MICROPHONE LEVEL AUDIO SIGNAL	22 AWG	90m
MI	MIDI CONTROL SIGNAL	PREMADE	(NOTE 3)
MMF	MULTI-MODE FIBER	PREMADE	(NOTE 3)
Mono	MONO AUDIO SIGNAL	22 AWG	90m
Phone	TELEPHONE SIGNAL	CAT3	90m
R	RGBHV VIDEO SIGNAL	PREMADE	25'
REF	REFERENCE SYNC/BLACK - BLACK BURST OR TRI-LEVEL SYNCHRONIZATION	22 AWG	90m
RF	RADIO FREQUENCY	RG-58	IN RACK
	RF WIRELESS MIC ANTENNA	RG-213	50'
	RF WIRELESS MIC ANTENNA WITH +3dB AMPLIFIER	RG-8X	60'
	RF WIRELESS MIC ANTENNA	RG-17	70'
S	S-VIDEO SIGNAL	PREMADE	90m
SDI	SERIAL DIGITAL INTERFACE PER SMPTE 292M	RG-59	950'
		RG-6	1150'
		RG-11	1850'
SMF	SINGLE-MODE FIBER	PREMADE	(NOTE 3)
SPDIF	DIGITAL AUDIO OVER SPDIF	PREMADE	10m
St	STEREO AUDIO SIGNAL	PREMADE	5m
TB	THUNDERBOLT SIGNAL	PREMADE	3m
TC	TIMECODE	RG-59	90m
TIE LINES	MICROPHONE LEVEL	22 AWG	90m
	LINE LEVEL	22 AWG	90m
	LOUDSPEAKER LEVEL	(NOTE 4)	90m
TPA	AUDIO SIGNAL OVER TWISTED PAIR	CAT6	90m
TPC	CONTROL SIGNAL OVER TWISTED PAIR	CAT6	90m
TPT	TELEVISION SIGNAL OVER TWISTED PAIR	CAT6	90m
TYP	VIDEO SIGNAL OVER TWISTED PAIR	CAT6	90m
TRIA	TRIAudio OVER TWISTED PAIR	RG-59U	IN ROOM
TRIA	TRIAudio CAMERA CABLE	RG-11U	2950'
TV	CABLE TELEVISION DISTRIBUTION SIGNAL	RG-59	IN RACK
		RG-6	DRCP
		RG-11	DISTR
		1/2" HARDLINE	TRUNK
USB	UNIVERSAL SERIAL BUS SIGNAL	PREMADE	90m
USB1	USB VERSION 1.0	PREMADE	5m
USB2	USB VERSION 2.0	PREMADE	5m
USB3	USB VERSION 3.0	PREMADE	5m
V	COMPOSITE VIDEO SIGNAL	RG-59	750'
		RG-6	900'
		RG-11	1200'
Y	COMPONENT VIDEO SIGNAL	RG-59	125'
		RG-6	200'
		RG-11	390'
3GSDI	3G-SDI PER SMPTE 424M	RG-59	200'
		RG-6	250'
		RG-11	390'
RGSDI	RG-SDI	RG-11	(NOTE 4)
*	DENOTES PORTION OF ITEM	-	-
NOTES	-	-	-
1	SIGNAL FLOW SIGNAL TYPE ABBREVIATION	-	-
2	CABLE DISTANCE LIMITATION CONTACT CONSULTANT FOR CONDITIONS OUTSIDE PARAMETERS	-	-
3	REFER TO SPECIFICATION FOR WIRE TYPE	-	-
4	REFER TO SIGNAL FLOWS FOR WIRE TYPE	-	-

SIGNAL FLOW BLOCK LEGEND

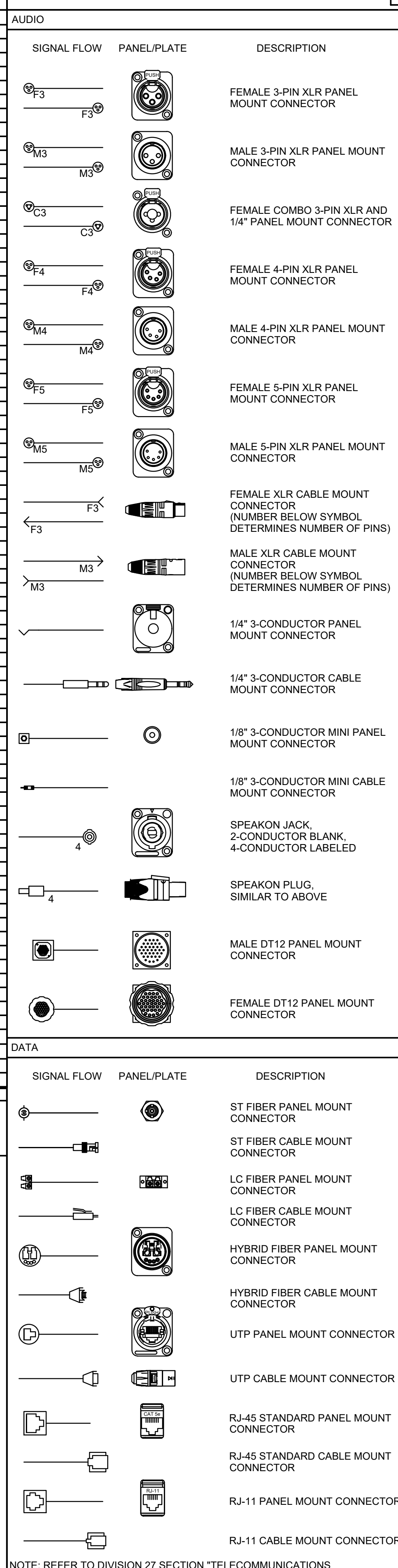


PLAN BOX & CONDUIT EXAMPLE

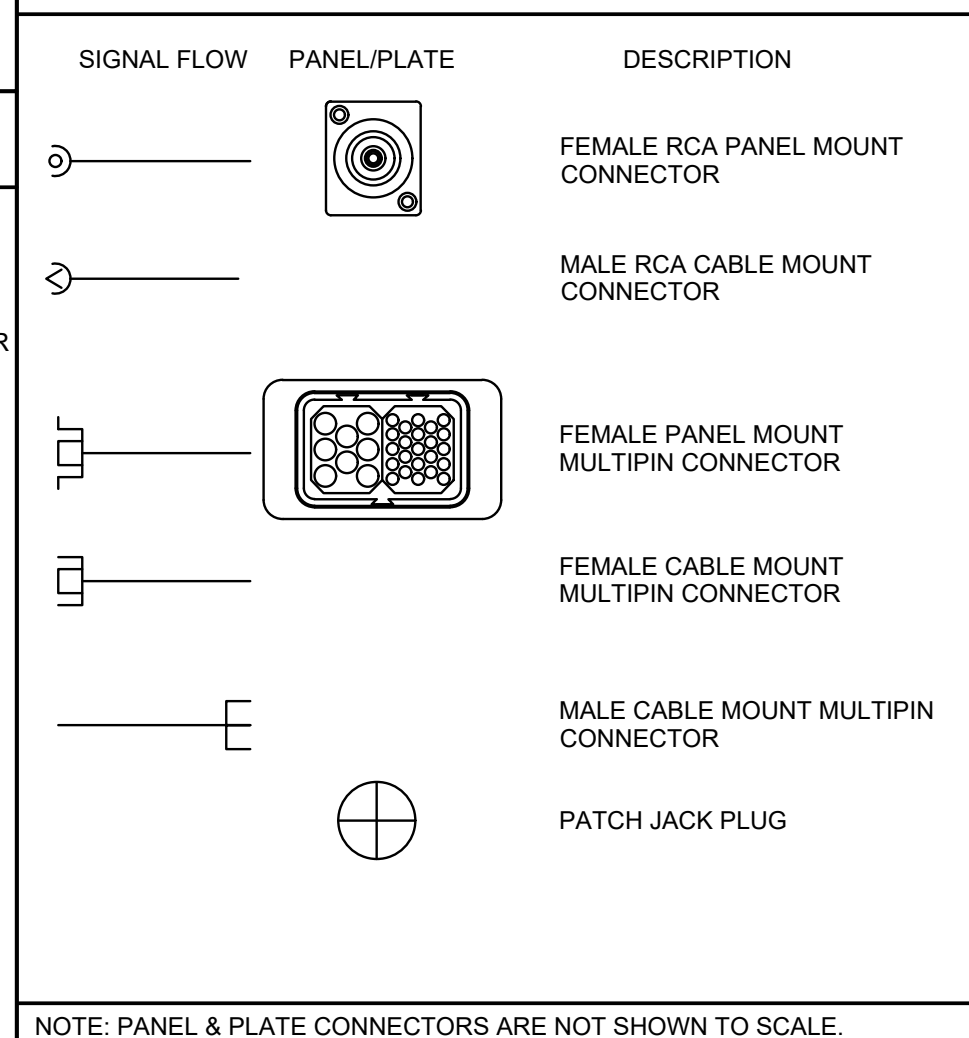


NOTE: LETTER DESIGNATION PRECEDING LABEL INDICATES BUILDING/AREA LOCATION OF BOX. E.g. "BA01" INDICATES BUILDING B ASSORTED BOX NUMBER 01.

AUDIO VIDEO SYMBOLS



NOTE: REFER TO DIVISION 27 SECTION "TELECOMMUNICATIONS" REQUIREMENTS FOR AUDIO VIDEO SYSTEMS FOR ADDITIONAL INFORMATION



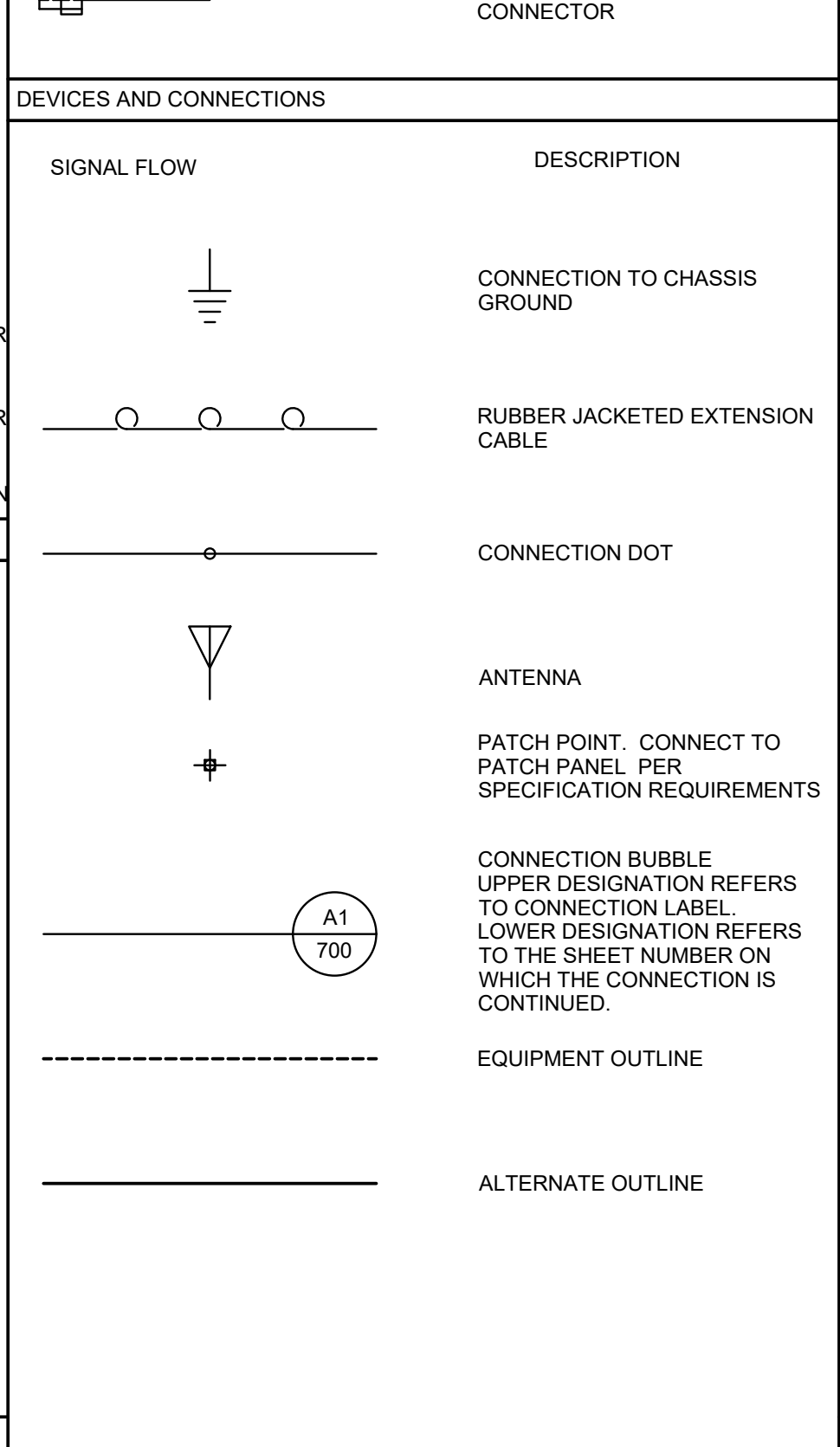
CONDUIT/CIRCUIT GROUP DIVISIONS

GROUP	DESCRIPTIONS	LEVEL	BANDWIDTH
M	MICROPHONE LEVEL AUDIO CIRCUITS	BELOW -30dBu	20 Hz TO 20kHz
L	LINE LEVEL AUDIO CIRCUITS	-30dBu TO +24dBu	20 Hz TO 20kHz
P	PRODUCTION INTERCOM COMMUNICATION CIRCUITS	-30dBu TO +24dBu	20 Hz TO 20kHz
W	RF LEVEL CIRCUITS INCLUDING WIRELESS MICROPHONE, ANTENNA CABLE, SATELLITE, AND TV DISTRIBUTION	GREATER THAN +24dBu	5 MHz TO 3GHz
S	SPEAKER LEVEL AUDIO CIRCUITS INCLUDING BOTH LOW IMPEDANCE AND HIGH IMPEDANCE (70 VOLT) TYPES	GREATER THAN +24dBu	20 Hz TO 20kHz
V (VARIOUS)	VIDEO CIRCUITS CONTROL CIRCUITS DATA CIRCUITS FIBER CIRCUITS	1 VOLT PEAK-TO-PEAK INTO 75 OHMS 0-28 VOLT INTO $50\text{ K}\Omega\text{HMS}$ 2 VOLT PEAK-TO-PEAK INTO 100 OHMS	0 Hz TO 250 MHz - 0 Hz TO 500 MHz

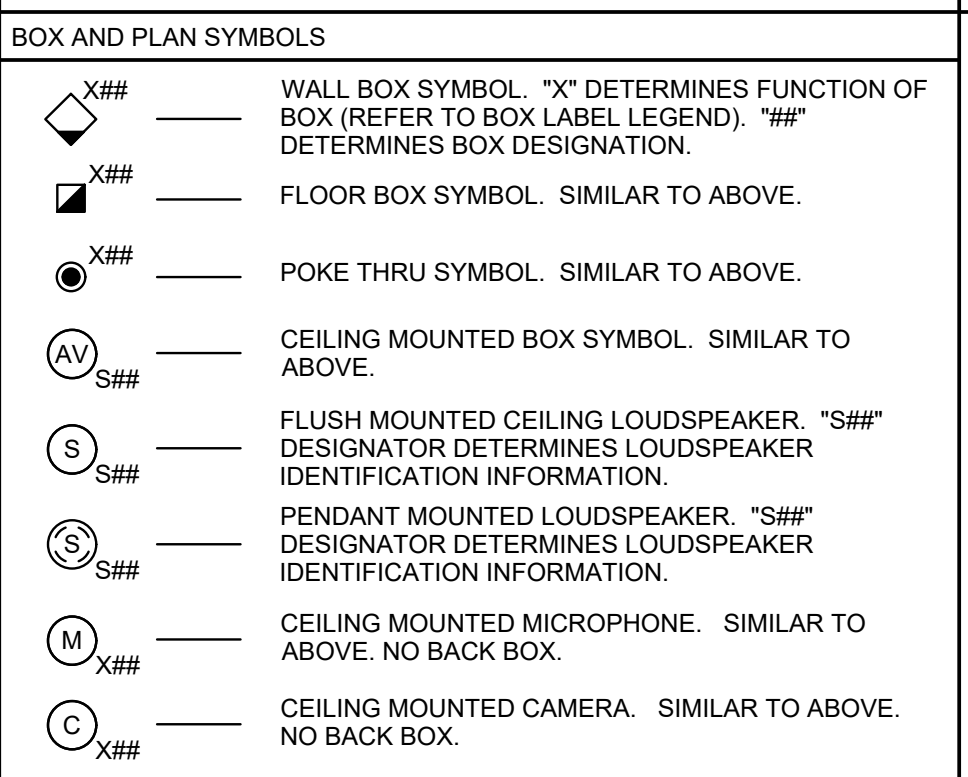
CONDUIT ROUTING AND SEPARATION

BOTH EMT	EMT	RIGID	M	L, P	W	S	V
M	-	-	ADJACENT	6"	12"	12"	12"
L, P	-	-	ADJACENT	6"	12"	12"	6"
W	-	-	12"	12"	ADJACENT	ADJACENT	6"
S	-	-	12"	12"	ADJACENT	ADJACENT	6"
V	-	-	12"	6"	6"	6"	ADJACENT
POWER CONDUIT UNDER 60A	-	-	24"	24"	24"	24"	24"
POWER CONDUIT 60A	-	-	36"	36"	36"	36"	36"
POWER CONDUIT 120A	-	-	48"	48"	48"	48"	48"
POWER CONDUIT 240A	-	-	RIGID	RIGID	RIGID	RIGID	RIGID
POWER CONDUIT 400A	-	-	RIGID	RIGID	RIGID	RIGID	RIGID

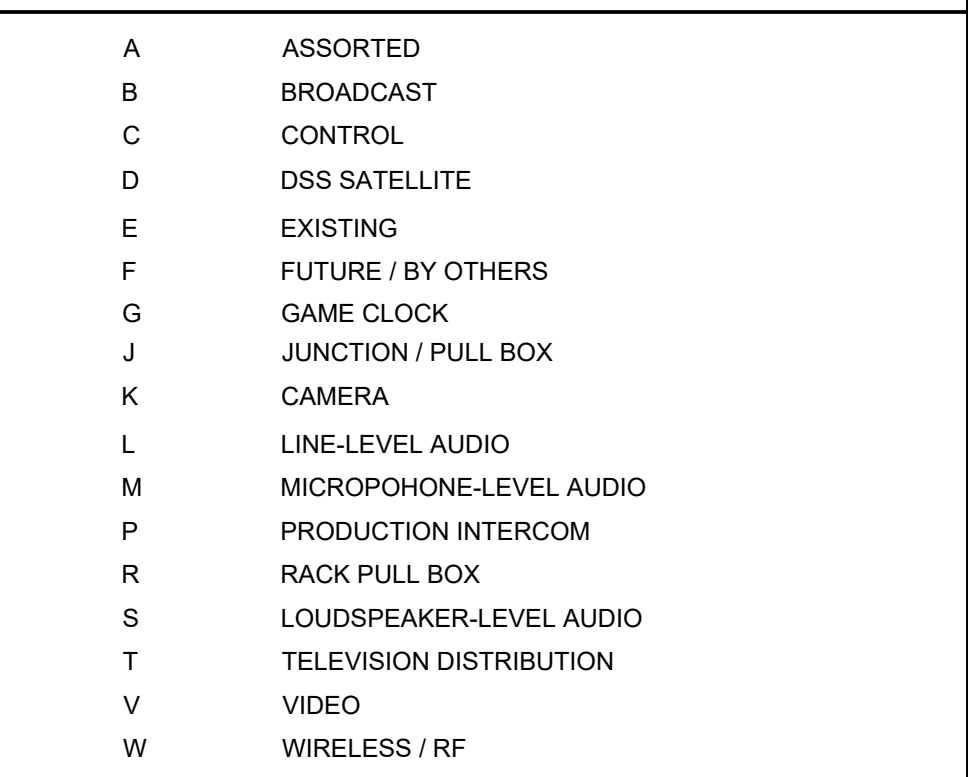
CONDUIT LEGEND



PLAN LEGEND



BOX LABEL LEGEND



LEE'S SUMMIT SCHOOL DISTRICT PAC SOUND SYSTEM IMPROVEMENTS LEE'S SUMMIT HIGH SCHOOL

PROFESSIONAL SEAL

REVISIONS

JOB NO: 1850002492
 DATE: 06-07-2016
 CHECKED BY: HEI
 DRAWN BY: HEI

AUDIO-VIDEO LEGEND

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