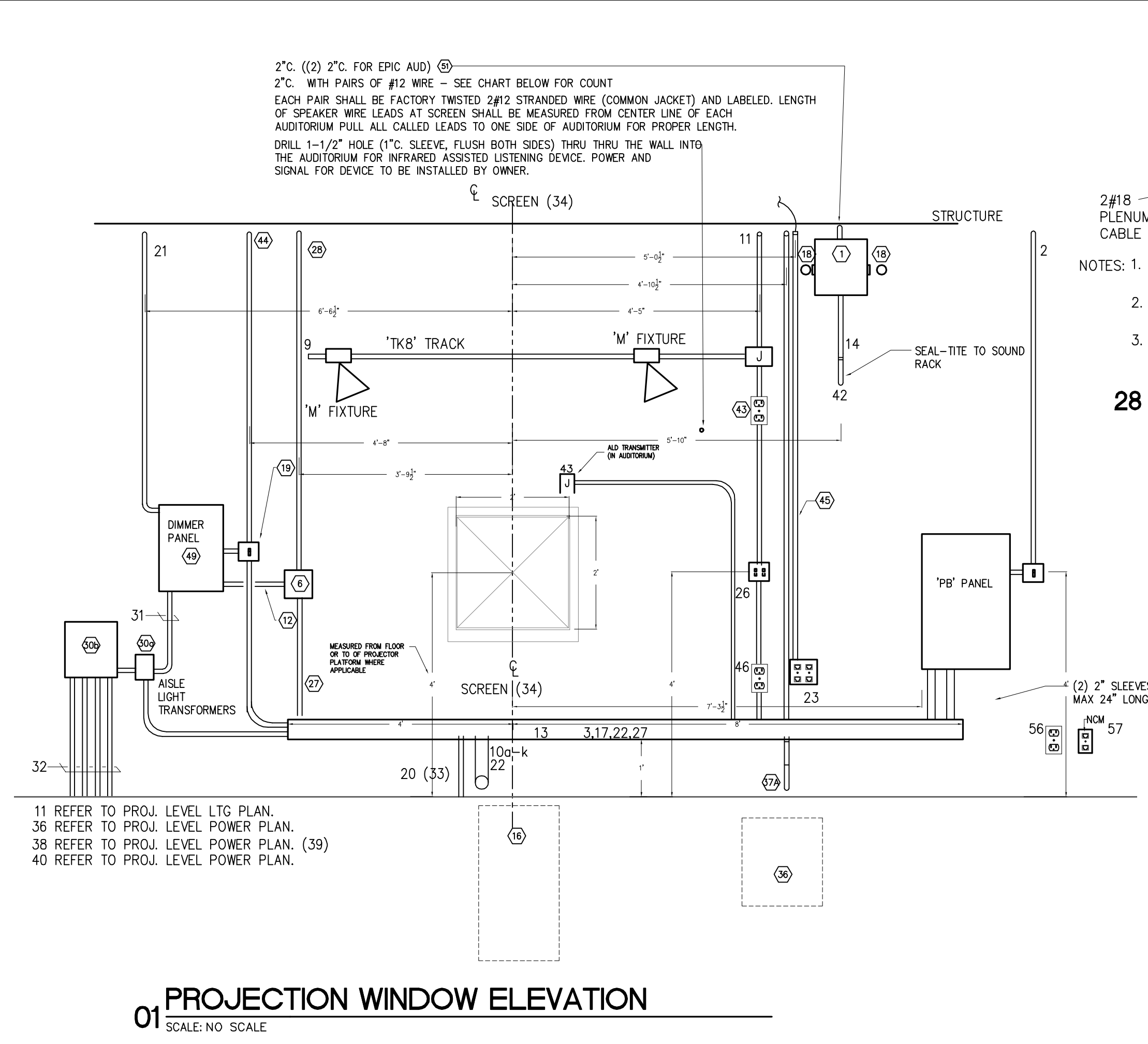


Plotted By: Dan Habetter 24 May, 2017 Drawing File: E:\Dropbox (EnviroDesign)\EnviroDesign Team Folder\Current\2017-055 Cinergy Amarillo\2017-055E61.dwg

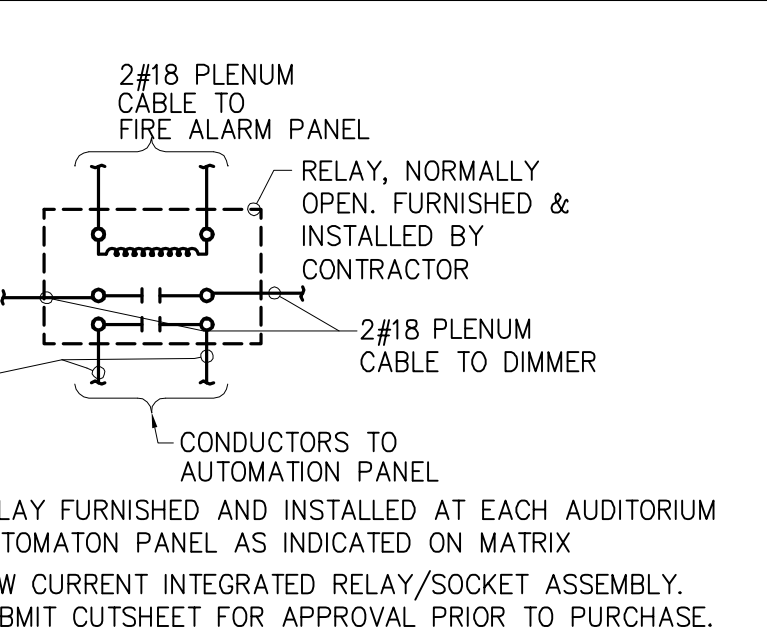
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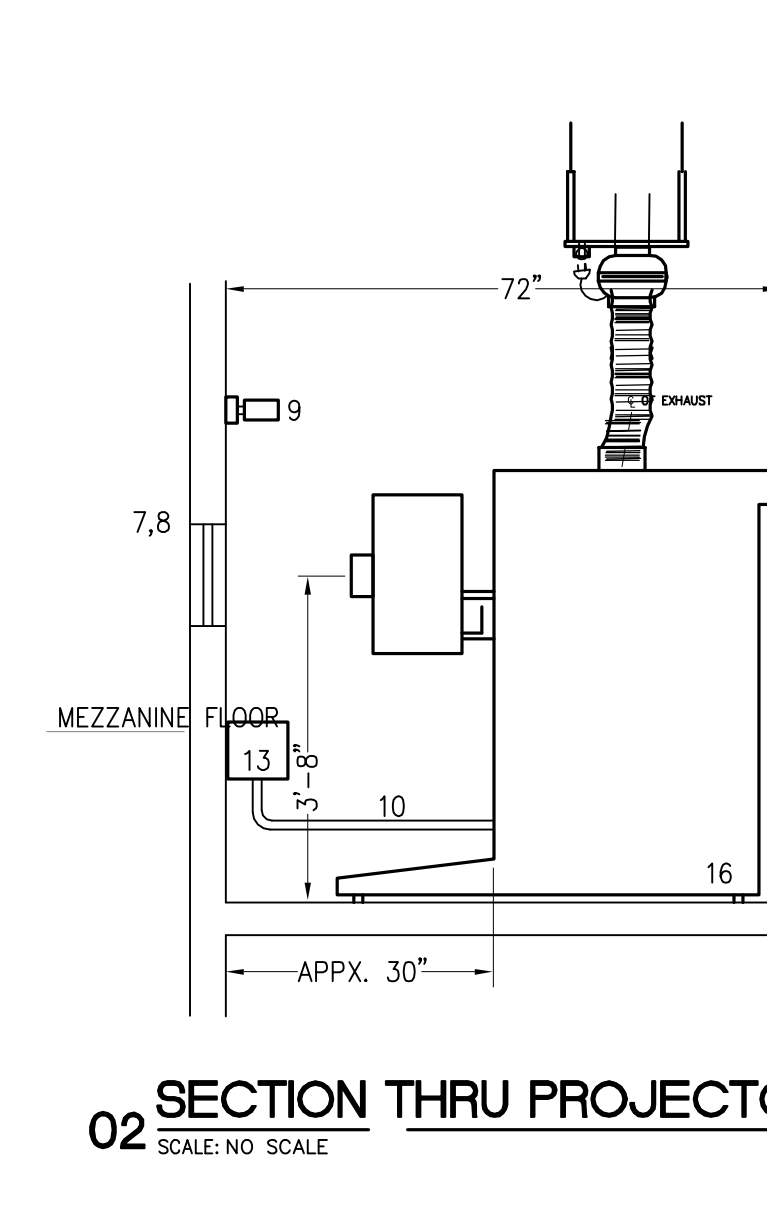
01 PROJECTION WINDOW ELEVATION
SCALE: NO SCALE

PROJECTION NOTES

- 8x8x4 J-BOX FOR SOUND DISTRIBUTION ABOVE AUDITORIUM CEILING.
- (2)#12 IN 1/2" C FROM PANEL TO EXHAUST FAN ON ROOF EXHAUST FAN TO BE CONTROLLED VIA A 24V "NO" RELAY CONTROLLED BY THE PROJECTOR CONSOLE.
- AUTOMATION PANEL MOUNTED ON WALL. AT OWNER'S OPTION, AUTOMATION PANEL MAY BE MOUNTED INSIDE PROJECTOR CONSOLE. IF THAT IS THE CASE, THE CONTRACTOR SHALL EXTEND ALL LOW AND LINE VOLTAGE CABLING CIRCUITS TO THE PROJECTOR CONSOLE MOUNTED AUTOMATION. MOUNT ON WALL AT 48" MAX TO CONTROLS.
- NOT USED
- NOT USED
- 6"x6"x2" DEEP JUNCTION BOX WITH FIRE ALARM SHUT-DOWN RELAY.
- VIEW PORT WITH CLEAR OPTICAL GLASS
- PROJECTION WINDOW (OPERABLE, OPENING INTO THE PROJECTION ROOM).
- 8 FT. LIGHT TRACK (TK8) WITH 2 LIGHT FIXTURES SWITCHED ON WALL NEXT TO OPERABLE WINDOW. REFER TO PROJECTION LEVEL LIGHTING PLAN FOR TRACK LENGTH AND FIXTURE TYPE. MOUNTING HEIGHT = 6'-6"
- 1-1/2" SEALTITE FLEXIBLE CONDUIT 42" LONG TO CONSOLE. ALL WIRES TO EXTEND 10'-0" BEYOND END OF CONDUIT; ALIGN WITH LEFT EDGE OF PROJECTION WINDOW. USE 1 STRAIGHT CONNECTOR AT ITEM 13 AND 1-90 DEGREE CONNECTOR AT ITEM 16.
- CONDUIT SHALL CARRY THE FOLLOWING (330V INSULATION, STRANDED WIRE):
 - 1 PHASE FEEDER FROM THE GUTTER TO THE PROJECTOR. SEE ITEM #22.
 - 3 PHASE FEEDER ON IDX AUDITORIUMS
 - MASKING MOTOR CONTROL (3 #14). SEE ITEM #23.
 - 2#12 STRANDED (PHASE AND NEUTRAL) FROM THE PANEL FOR CONSOLE WORK STATION
 - 2#12 STRANDED (PHASE AND NEUTRAL) FROM THE PANEL FOR CONSOLE MOUNTED AUTOMATION
 - COLD WATER GROUND. SEE ITEM #33.
 - (4)#16 STRANDED FROM SOUND RACK #36 TO AUTOMATION IN CONSOLE #16.
 - FIRE CONTROL INTERFACE CABLE FROM FIRE ALARM PANEL TO AUTOMATION IN CONSOLE. SEE ITEM #28.
 - 6#18 STRANDED FROM DIMMER#49 TO AUTOMATION IN CONSOLE #16.
- CONDUIT TO HANGING FLUORESCENT FIXTURE WITH LENS. ON SAME CIRCUIT AS #9 (SEE ITEM 26). REFER TO PROJECTION LIGHTING PLAN FOR LOCATION. MOUNTING HEIGHT 8'-0"
- 3/4" C. WITH 6 CONDUCTOR #18 CONTROL CABLE (COLOR CODED) FROM AUTOMATION IN CONSOLE TO DIMMER.
- 4"x4"x1/2"-0" WIREWAY WITH HINGED COVER (HINGE ON BOTTOM). MOUNTED 12" AFF. REFER TO ELEVATION FOR TYPICAL LOCATION.
- 2" CONDUIT WITH SPEAKER WIRING FROM ITEM #1 TO ITEM #42. SEALTITE TO SOUND CONSOLE - ROUTE OVERHEAD INTO TOP OF SOUND RACK
- NOT USED.
- PROJECTOR CONSOLE BY FF&E VENDOR. POWER AND EXHAUST CONNECTION TO BE MADE BY ELECTRICAL AND MECHANICAL CONTRACTORS. PROJECTOR CONSOLE CONTAINS:
 - DIGITAL PROJECTOR (FROM "PB_" PANEL: 2P/20A, 3#8+1#8 GND)
 - AUTOMATION PANEL (FROM "PB_" PANEL: 1P/20A, 2#12)
 - DIGITAL CINEMA WORK STATION (FROM "PB_" PANEL: 1P/20A, 2#12)
 IN PROJECTOR PEDESTAL - (2) QUAD RECEPTACLES (FROM "PB_" - (1) 120V CIRCUIT FOR EACH)
- 2#12 (PHASE AND NEUTRAL) FROM THE CONSOLE THRU ITEM #13 TO THE PANEL FOR CONSOLE AUTOMATION.
- 1-1/2" SLEEVE THROUGH WALL FOR SURROUND SPEAKER CABLES (2) AT EACH AUDITORIUM, ONE FOR LEFT AND ONE FOR RIGHT CHANNEL. EXTEND CABLES TO SOUND RACK
- LED TOGGLE SWITCH FOR CONTROL OF POWER TO DIMMER. SEE WIRING DIAGRAM ON SHEET E2.2.
- 1/2" C FROM WIREWAY TO COLD WATER GROUND. SEE ITEM #33.
- CIRCUITS TO AUDITORIUM SCENCE AND DOWNLIGHT FIXTURES.
- 1 PHASE, 208V CIRCUIT WITH NEUTRAL AND GROUND FROM ELECTRICAL PANEL TO PROJECTOR CONSOLE. CONSOLE END OF WIRE TO EXTEND 10 FT BEYOND END OF SEALTITE. WIRE SIZE TO BE #8 FOR PHASE, NEUTRAL, GND. **IDX TO HAVE 4#8 + 1#8 GND.**
- STAGE MASKING CIRCUITRY (2#12 FROM PANEL & 3#14 FROM CONSOLE AUTOMATION ITEM 16) AND RECEPTACLE CIRCUIT (2 #12) IN 3/4" C. FROM WIREWAY (ITEM #13) TO J-BOX AT SCREEN.
- NOT USED
- NOT USED
- TOGGLE SWITCH FOR TRACK LIGHT AND SWITCH FOR OVERHEAD FLUOR. FIXTURE ITEM 11. MOUNT CENTERED ON PROJECTOR PORT 6" AWAY FROM RIGHT SIDE. CENTER OF SWITCH TO BE 48" AFF
- 3/4" C. WITH:
 - 6#18 (COLOR CODED) CONSOLE AUTOMATION TO DIMMER
 - 2#14 FROM FIRE ALARM RELAY TO CONSOLE MOUNTED AUTOMATION FOR FIRE ALARM SHUT DOWN.
- (2)#14 IN 3/4" C TO FIRE ALARM INTERFACE RELAY TRANSFORMER IN (E). SEE FIRE ALARM RISER AND DETAIL THIS SHEET. EXTEND 2#14 TO AUTOMATION PANEL (EITHER ON WALL OR IN CONSOLE)
- NOT USED
- LOW VOLTAGE, CLASS 2, 250VA AISLE LIGHT TRANSFORMER FURNISHED BY AISLE LIGHTING VENDOR
- 8x8x4 WIRING BOX FOR AISLE LIGHTING CIRCUITS. WIRE THRU THIS BOX FROM TRANSFORMERS TO J-BOXES IN AUDITORIUMS. ONE CIRCUIT FROM EACH TRANSFORMER TO EACH J-BOX. REFER TO SHOP DRAWINGS FOR DETAIL.
- CIRCUITS TO AUDITORIUM FLOOR LIGHT TRANSFORMERS. FOUR INTERNAL BREAKERS AT EACH TRANSFORMER, MAXIMUM 220 "LAMPS" PER BREAKER.
- TO AISLE FLOOR LIGHTING IN AUDITORIUM. ONE CONDUIT TO EACH SIDE OF AUDITORIUM ENTRY DOOR. ONE CONDUIT TO FRONT PAIR OF J-BOXES IN AUDITORIUM AND ONE CONDUIT TO REAR PAIR OF J-BOXES IN AUDITORIUM. USE 12 GAUGE STRANDED WIRE.
- #10 STRANDED FROM COLD WATER GROUND TO CONSOLES (SEPARATE FROM MECHANICAL GROUND). ROUTE THRU ITEM #10. WIRE SHALL EXTEND 10'-0" BEYOND END OF SEALTITE. EACH RUN SHALL BE HOME RUN.
- SEE PROJECTION LEVEL PLANS FOR EXCEPTIONS.
- NOT USED.
- FREE STANDING DIGITAL AMPLIFIER RACK (SOUND RACK)
- (4) 20AMP SINGLE PHASE CIRCUITS WITH SEPARATE NEUTRALS FROM PANEL (ALL ON B PHASE) TO DIGITAL AMPLIFIER RACK. CONNECTIONS BY ELECTRICAL CONTRACTOR.
- NOT USED
- (1) 48" LONG 1" SEALTITE CONDUIT FOR POWER CIRCUITS FROM DIGITAL RACK TO PANEL WITH TWO STRAIGHT CONNECTIONS (ONE ON EACH END). FROM WIREWAY TO SOUND RACK.
- #10 STRANDED FROM COLD WATER GROUND TO EACH DIGITAL AMP RACK (SEPARATE FROM MECHANICAL GROUND). ROUTE THRU 3/4" C SEALTITE AT EACH #38. WIRE SHALL EXTEND 10'-0" BEYOND END OF SEALTITE. RUN SHALL BE HOME RUN.
- (1) 3/4" SEALTITE FROM CONSOLE ITEM 16 TO DIGITAL SOUND RACK ITEM 36 AS LONG AS NEEDED
- NOT USED.
- ROUTE ALL SPEAKER & CABLE LEADS FROM ITEM #1 TO ITEM #36 VIA 48" LONG, 2" & 1" SEALTITE. CABLE LEADS SHALL EXTEND 6'-0" BEYOND END OF SEALTITE. INCLUDE 3/4" C. WITH 5#18 THHN, COLOR CODED, AUTOMATION TO SOUND RACK.
- ASSISTED LISTENING DEVICE (ALD) (MOUNT AUDITORIUM SIDE OPERABLE WINDOW) THE ALD IS FURNISHED, INSTALLED, & WIRED PER MATRIX OF RESPONSIBILITY 1/2" C. TO #12 AND 1/2" C. STUBBED THROUGH WALL (CUT OFF FLUSH INSIDE THE AUDITORIUM. 1/2" C. FROM J-BOX TO #12
- 2#12 +1#12 GND. TO AUDITORIUM EMERGENCY BATTERY PACKS. SEE WIRING DIAGRAM ON SHEET E2.2.
- JUNCTION BOX WITH (4) RJ-45 CAT5E DATA OUTLETS. 3/4" C. UP WITH BUSHING AT THE TOP. DATA CABLES AND OUTLETS BY OTHERS
- DUPLEX RECEPTACLE (WORK OUTLET). MOUNT ON TOP OF WIRE TROUGH USING 2" CLOSE NIPPLE. SAME CIRCUIT AS TASK LIGHTS.
- NOT USED
- LOW VOLTAGE FIRE CONTROL INTERFACE CABLE FROM FIRE ALARM PANEL.
- DUAL CHANNEL DIMMER PANEL FURNISHED BY FF&E VENDOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
- NOT USED
- NOT USED
- 2" C. WITH (10) PAIRS OF #10 WIRE FROM REAR OF SCREEN TO SPEAKER SOUND RACK IN BOOTH. TERMINATE CONDUIT BEHIND SCREEN AT 12 FT AFF WITH BUSHING. EACH PAIR SHALL BE FACTORY TWISTED 2#10 STRANDED WIRE AND LABELED. LENGTH OF SPEAKER WIRE LEADS AT SCREEN SHALL BE MEASURED FROM CENTER LINE OF EACH AUDITORIUM. PULL ALL CALLED LEADS TO ONE SIDE OF AUDITORIUM FOR PROPER LENGTH.
- NOT USED
- DRILL 1" HOLE (1/2" C. SLEEVE, FLUSH BOTH SIDES) THRU THRU THE WALL INTO THE AUDITORIUM FOR INFRARED ASSISTED LISTENING DEVICE. POWER AND SIGNAL FOR DEVICE TO BE INSTALLED BY OWNER.
- NCM - CIRCUIT TO PB#-7
- SURFACE MTP, SINGLE-GANG BOX WITH TWO RJ-45 DATA OUTLETS (CINEMEDIA)



28 FIRE ALARM SHUTDOWN
SCALE: NO SCALE



02 SECTION THRU PROJECTOR
SCALE: NO SCALE

SPEAKER WIRING LEGEND

EQUIPMENT VERSION	SCREEN SPEAKERS	SURROUND SPEAKERS
DIGITAL	WIRE 12 PAIR 2" C. 1 PAIR EACH SPEAKER	CONDUIT SEE DETAIL 04
EPIC	WIRE 28 PAIR (2) 2" C. 1 PAIR EACH SPEAKER	

NOTE: EACH PAIR SHALL BE FACTORY TWISTED 2#12 STRANDED WIRE AND LABELED. LENGTH OF SPEAKER WIRE LEADS AT SCREEN SHALL BE MEASURED FROM CENTER LINE OF EACH AUDITORIUM PULL ALL CALLED LEADS TO ONE SIDE OF AUDITORIUM FOR PROPER LENGTH. SPEAKER CABLE IS TO BE IEWC #3490, OR EQUAL (MAX DIAMETER = .28").
OMN #0591202, 12/2C, PVC JACKET CABLE
BELDEN #6000UE, 12/2C, PVC JACKET CABLE
IEWC #3490, 12/2C, PVC JACKET CABLE
COPPER, PLENUM CABLE

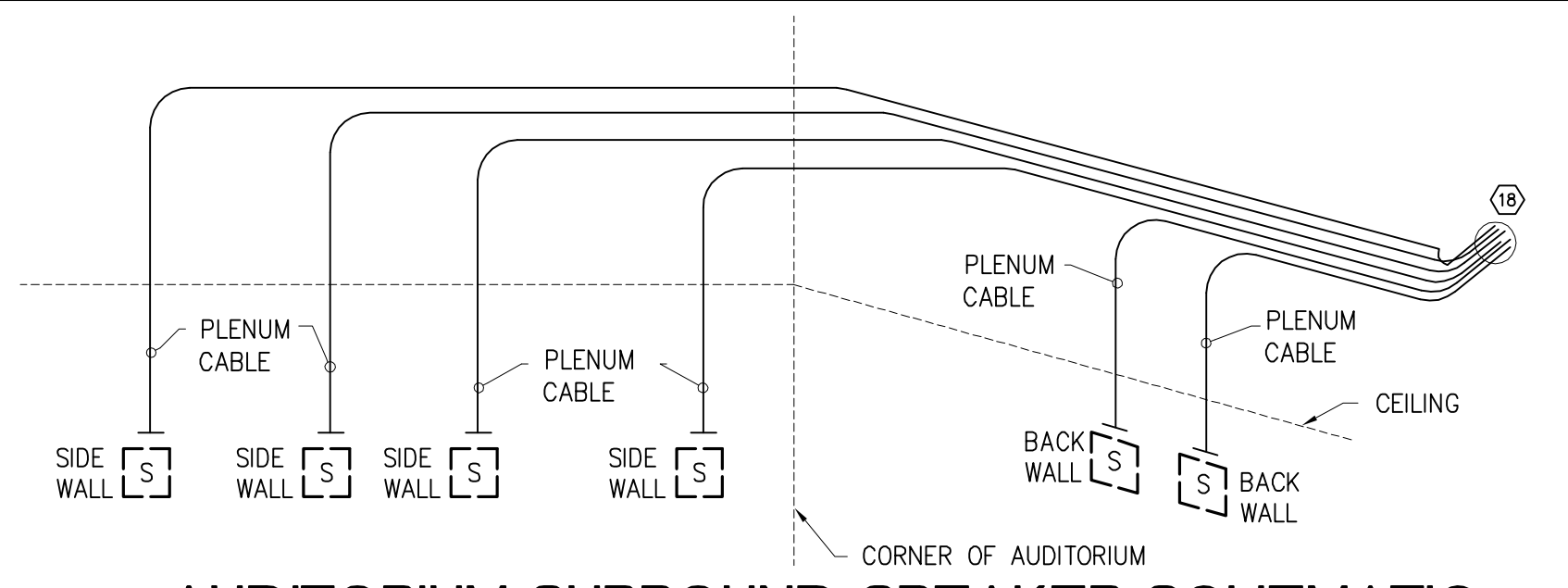
SOUND SYSTEM LEGEND

EQUIPMENT VERSION	AUDITORIUM NUMBER
DIGITAL	1 2 3 4 5 6 7 8 9 10
EPIC	● ● ● ● ● ● ● ● ● ●

SIDE WALL SPEAKERS SEE PLANS
BACK WALL SPEAKERS SEE PLANS
SURROUND CABLES TO BE TWISTED, STRANDED, #12, COPPER, PLENUM CABLE

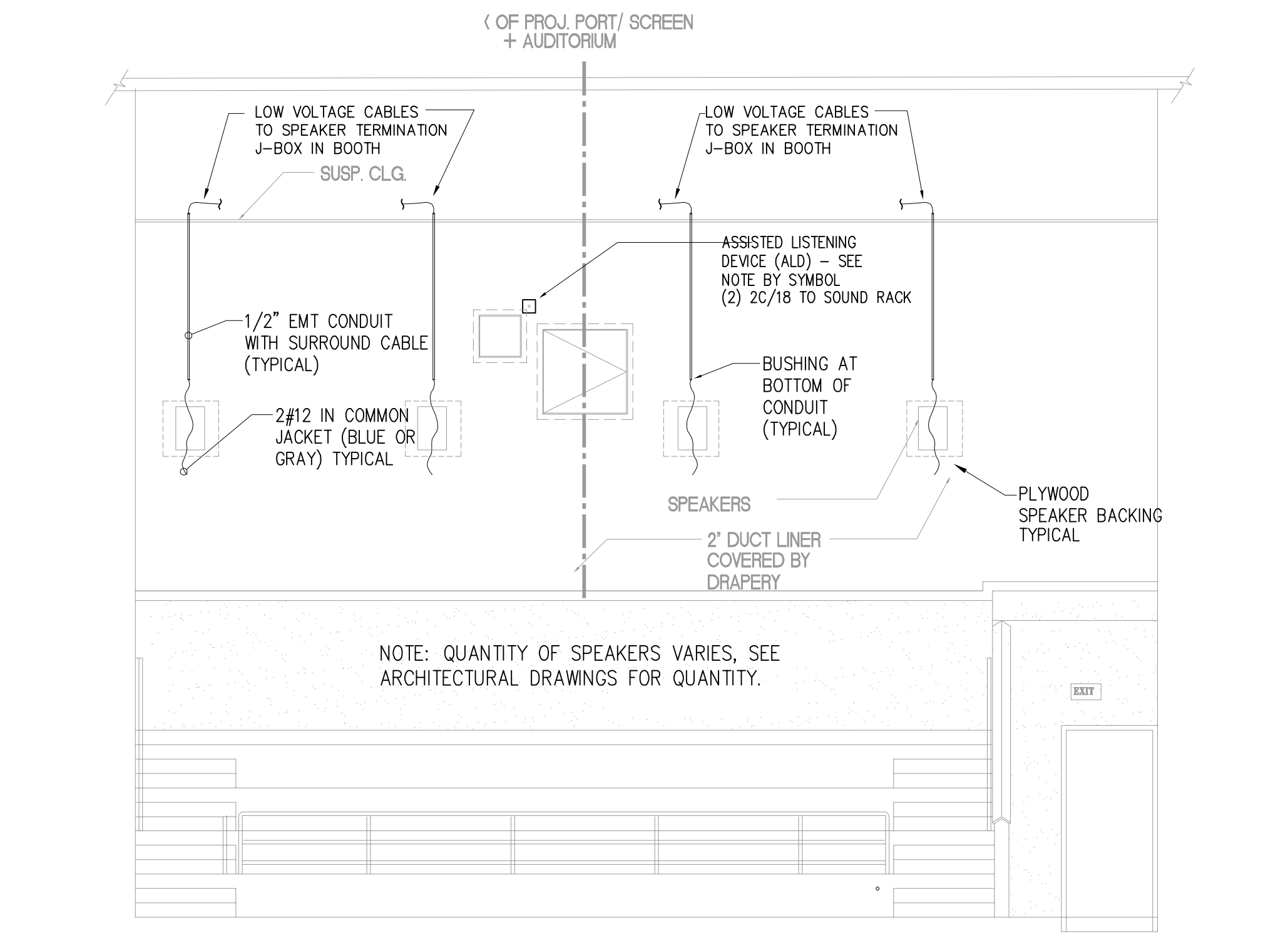
SURROUND SPEAKER WIRING NOTES:

- ALL SURROUND SPEAKER CABLES TO BE PLENUM RATED.
- THE SPEAKER PLENUM CABLE IS ROUTED ACROSS THE CEILING (PERPENDICULAR TO THE BUILDING LINES, TYPICALLY IN A BUNDLE SECURED AGAINST THE SIDE WALL ABOVE THE CEILING), AND TIED OFF IMMEDIATELY ABOVE WHERE EACH DROP SHOULD BE.
- THE DRAWINGS INDICATE HOW MUCH SLACK TO LEAVE. THE QUANTITY OF SPEAKERS VARIES FOR AUDITORIUM. SEE FLOOR PLAN FOR COUNT. LEAVE 10 FT SLACK AT EACH SPEAKER LOCATION. ALL CABLES TO BE CLEARLY LABELED.
- CABLES TO BE FACTORY TWISTED, #12 COPPER, STRANDED, WITH A COMMON JACKET.

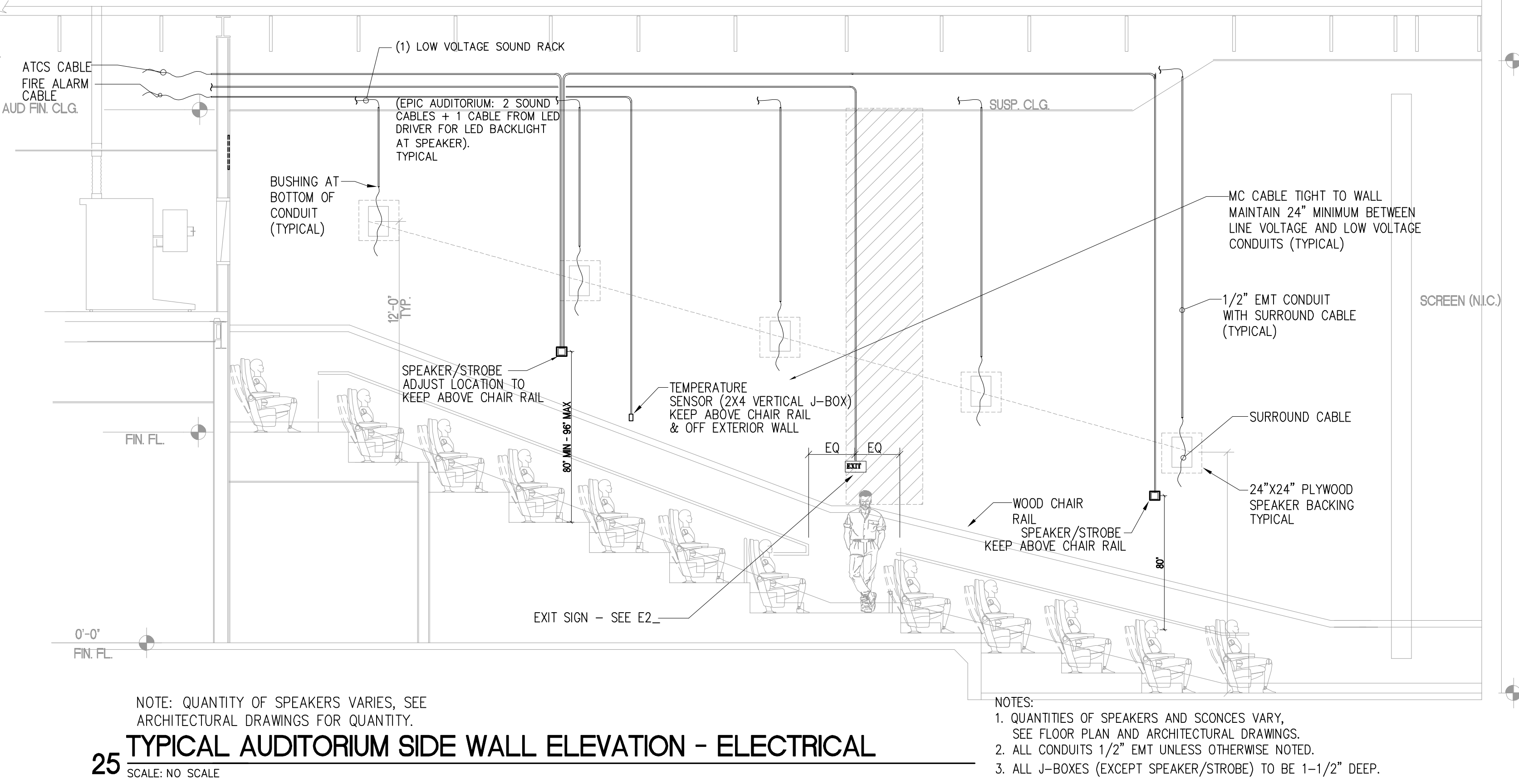


23 AUDITORIUM SURROUND SPEAKER SCHEMATIC
SCALE: NO SCALE

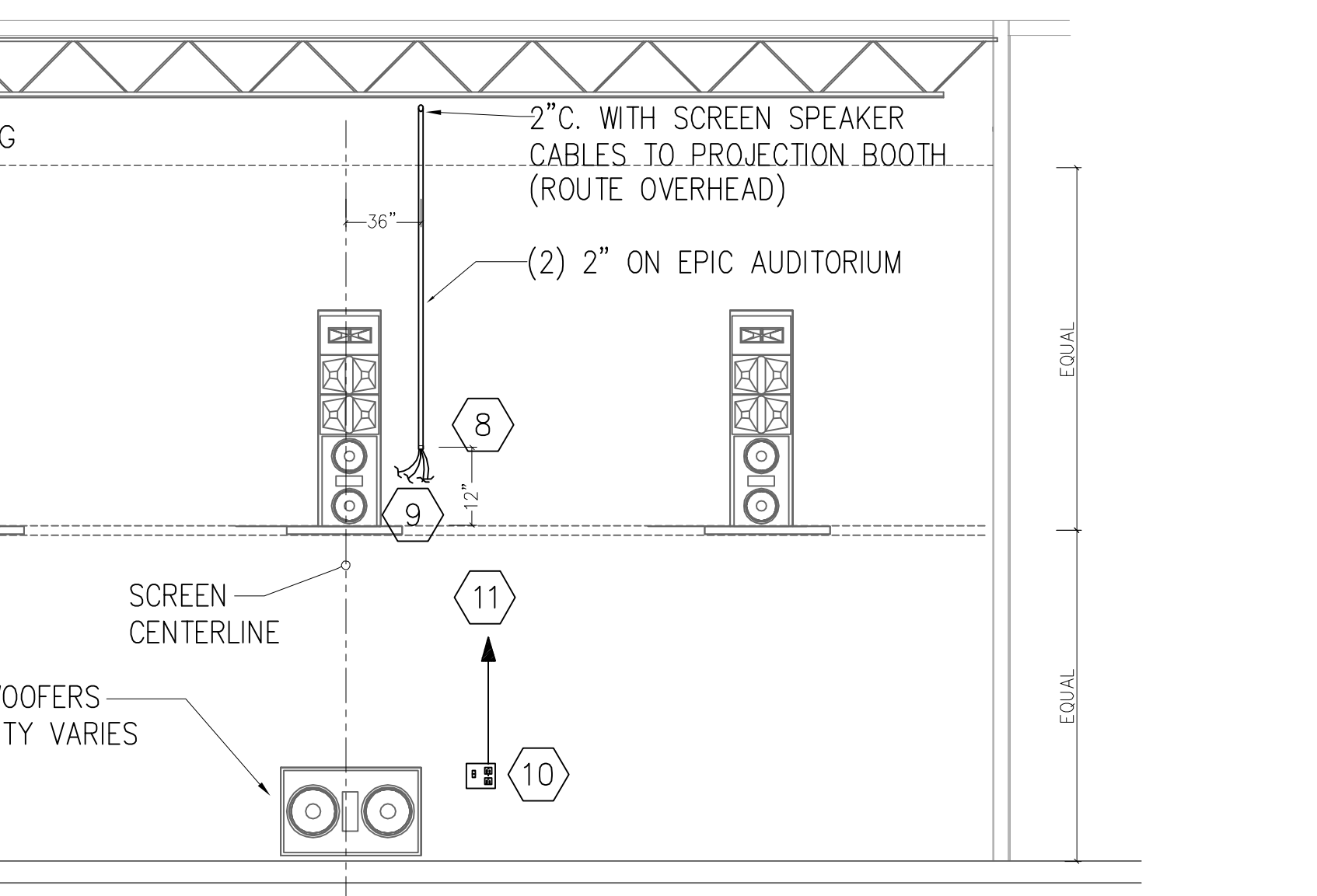
AT THE CONTRACTOR'S OPTION, THE FOLLOWING SOURCE MAY BE USED FOR THE LOW VOLTAGE CABLE: IEWC, CONTACT: Kevin McClure Ph: 800-323 0210 E-mail: wiresales@ewcinc.com



21 TYPICAL AUDITORIUM REAR WALL ELEVATION - ELECTRICAL
SCALE: NO SCALE

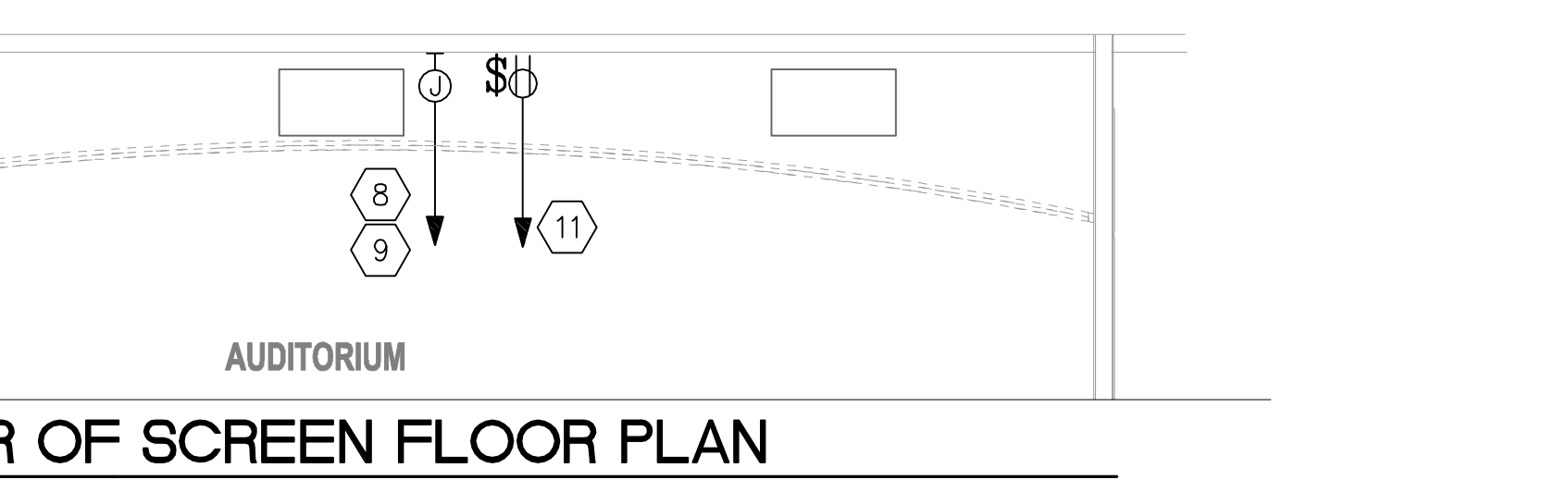


25 TYPICAL AUDITORIUM SIDE WALL ELEVATION - ELECTRICAL
SCALE: NO SCALE

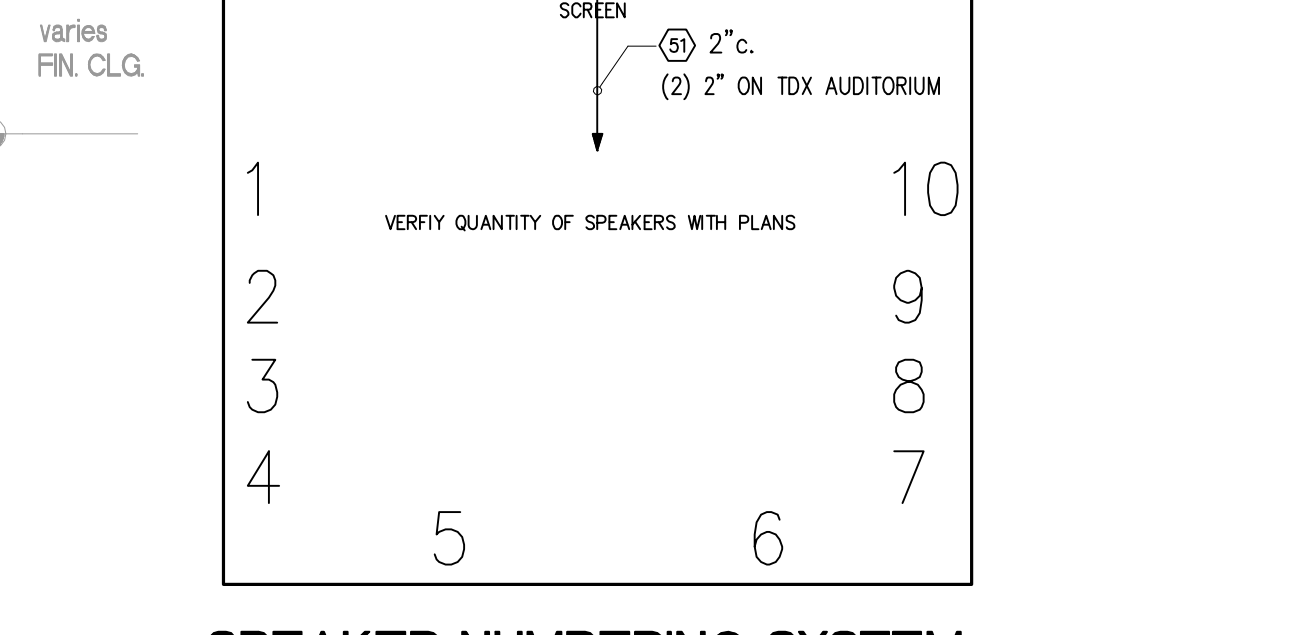


22 REAR OF SCREEN ELEVATION
SCALE: NOT TO SCALE

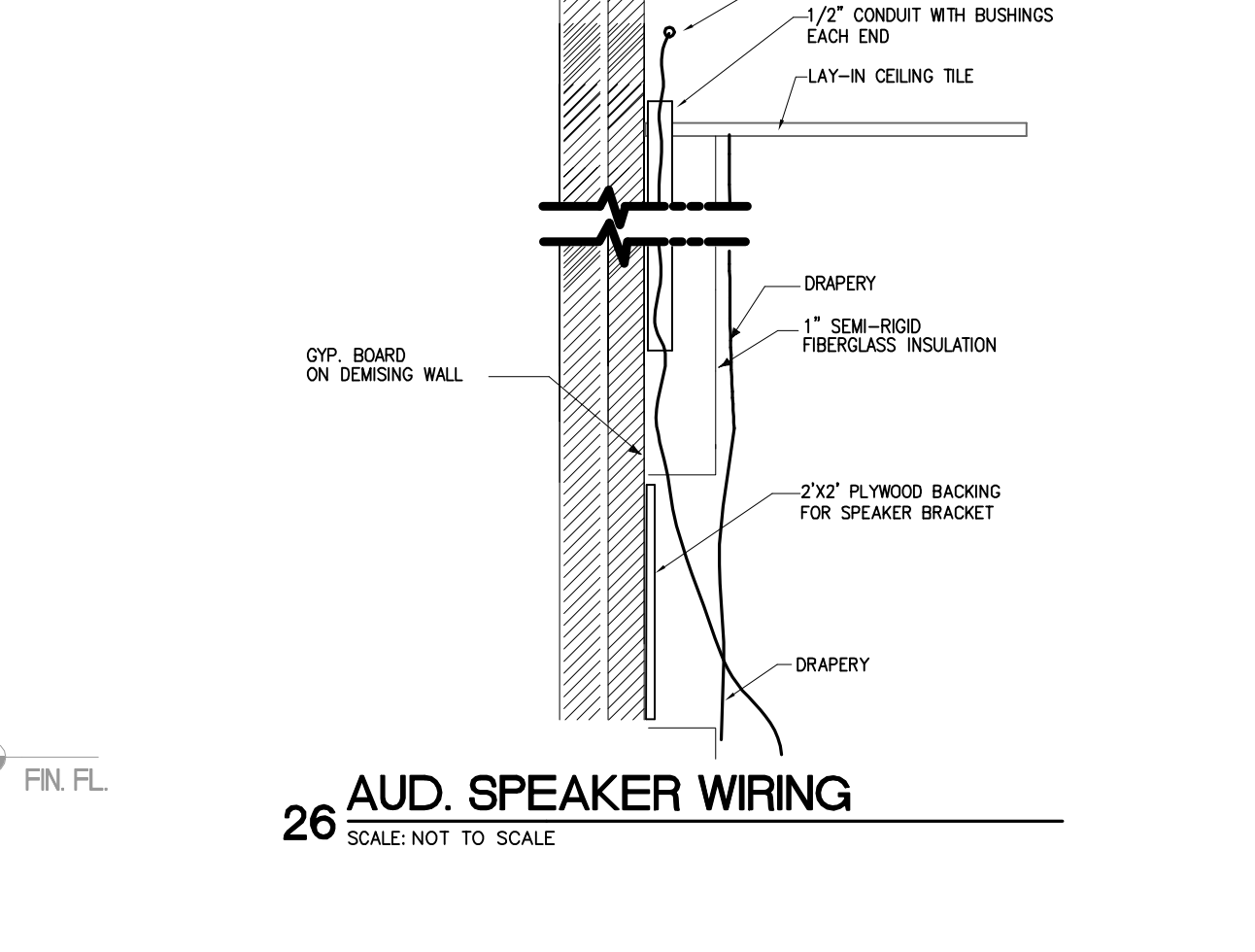
- BUSHING ON CONDUIT FOR SPEAKER ASSEMBLY 1'-0" ABOVE SPEAKER PLATFORM.
- SPEAKER CABLES FROM SOUND RACK TO SCREEN SPEAKERS AND SUB-WOOFERS. CABLE LENGTH TO DROP DOWN TO FLOOR AND THEN OVER TO FAR WALL
- J-BOX FOR POWER AND CONTROL WIRING FOR MASKING MOTORS. MOUNT AT 18" AFF AND 10' AWAY FROM SIDE WALL OPPOSITE EXIT SIDE DOOR (SIDE MASKING) OR AT 3 FT FROM CENTER LINE OF AUDITORIUM (TOP MASKING). ELECTRICAL CONTRACTOR SHALL CONNECT MASKING MOTOR WITH 3/4" SEALTITE & CONDUCTORS APPROXIMATELY 10'-0" LONG. VERIFY EXACT LOCATION OF MASKING MOTOR WITH OWNER PRIOR TO INSTALLATION. J-BOX TO HAVE MOTOR RATED SWITCH FOR DISCONNECT AND DUPLEX RECEPTACLE
- 2#12 +1#12 GND. (POWER), 4#16 (MASKING MOTOR CONTROL) CIRCUITRY TO PROJECTION WIREWAY, SEE E6.1 AND PANEL SCHEDULES



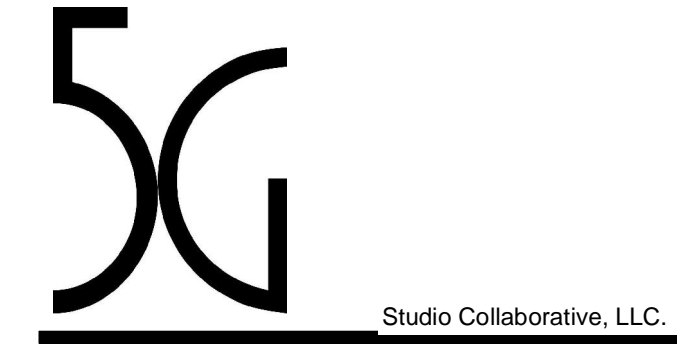
24 REAR OF SCREEN FLOOR PLAN
SCALE: NO SCALE



27 SPEAKER NUMBERING SYSTEM
SCALE: NO SCALE



26 AUD. SPEAKER WIRING
SCALE: NOT TO SCALE



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REV.	DATE	PERMIT ISSUE	ISSUE
1	5/12/17	PERMIT ISSUE	
2	5/24/17	ISSUE FOR BID	
3			
4			

CINERGY AMARILLO
SHEET DESCRIPTION
PROJECTION AND SOUND ELEVATIONS AND DETAILS

2016-151 PROJECT NUMBER
E6.1 SHEET NUMBER