

ECAV provides six ready-made templates for North American (ANSI) and Metric (ISO) drawing formats

SITE ADDRESS:
CITY, STATE ZIP CODE

A modern, minimalist conference room. A long, dark, rectangular table is surrounded by orange leather chairs with silver bases. On the table, there are several tablets and a small black device. The room has a large glass wall on the right side, reflecting the city skyline. On the left wall, a large screen displays a video conference with many participants. Below the screen is a dark wooden cabinet. The floor is covered with a blue and grey patterned carpet. The ceiling has a long, narrow light fixture.

ECAV's Cloud annotation system provides effective management of design changes, change orders and drawing revisions

PROJECT CHANGE ORDERS & DRAWING REVISIONS

ENTER CO & REV DATA IN TABLE - DATA CAN THEN BE RETRIEVED BY RIGHT-CLICKING PAGE TITLE BLOCKS AND CLOUDS

[illegible]

ECAV has expanded upon the J-STD-710 symbol standard with richer plan symbols, additional categories, and color-coding. With simple database integration, these symbols carry intelligent data across all drawing pages

Determine accurate wire & conduit lengths using the Wire Length symbol

The floorplan background image can be easily imported from a CAD, PDF or any graphic file

The symbol legend is created and updated automatically

Seventeen system categories and colors for device symbols provide visual continuity throughout the drawings

Legend		
Symbol	Count	Description
	7	Loudspeaker
	4	Microphone
	2	Video Display
	2	Video Camera
	4	Touch Panel
	3	I/O Panel
	1	AV Rack

DEVICE CATEGORY COLORS

AUD	COM	LTG	VAC
AUDIO	COMMUNICATIONS	LIGHTING	VACUUM
VID	PRG	SHD	FUR
VIDEO	POWER	SHADES	FURNISHINGS
SEC	HW	FR	
CONTROL	HVAC	HARDWARE	FIRE
NET	SUR	ACC	SEC
NETWORK	SURVEILLANCE	ACCESS	SECURITY
INFRASTRUCTURE	CONTROL	CONTROL	ALARM

DEVICE STATUS

NEW	EXISTING	FUTURE
-----	----------	--------

DEVICE MOUNT TYPE ABBREVIATIONS

C = CEILING	POD = PODIUM
DES = DESKTOP	POL = POLE
FL = FLOOR	RK = RACK
F = FLUSH	R = ROOF
G = GROUND	REC = RECESSED
H = HIDDEN	SH = SHELF
M = MULLION	S = SURFACE
O = OUTDOOR	T = TURNSTILE
P = PEDISTAL	W = WALL

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TITLE

AV CONFERENCE ROOM

DESCRIPTION

AV FLOOR PLAN & RCP

CHANGE ORDER (CO)

CO1

DRAWING REVISION (REV)

A

PROJECT MANAGER

DRAWN BY

DATE

06/09/2026

REVISED

06/09/2026

NEXT WIRE NO.

0

SCALE

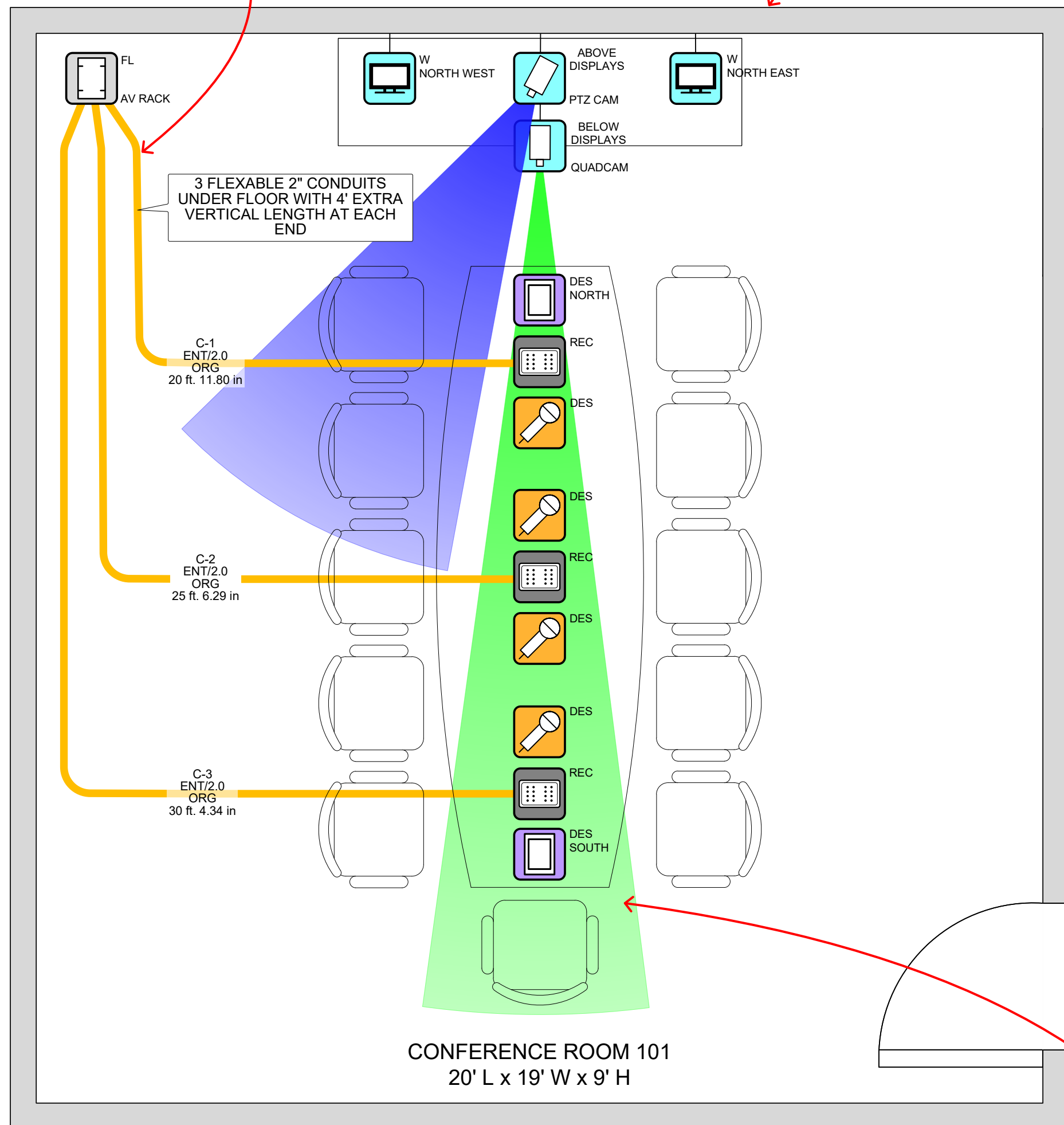
31/64" = 1'-0"

PROJECT NUMBER

PAGE

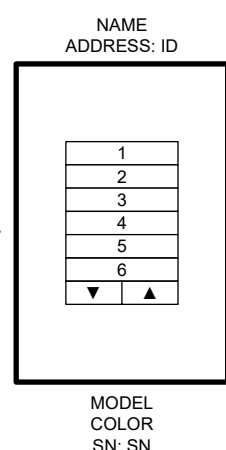
2 OF 10

THE
DESIGN



FLOOR PLAN

Utilize the Keypad Engraving symbol for client confirmation prior to keypad engraving



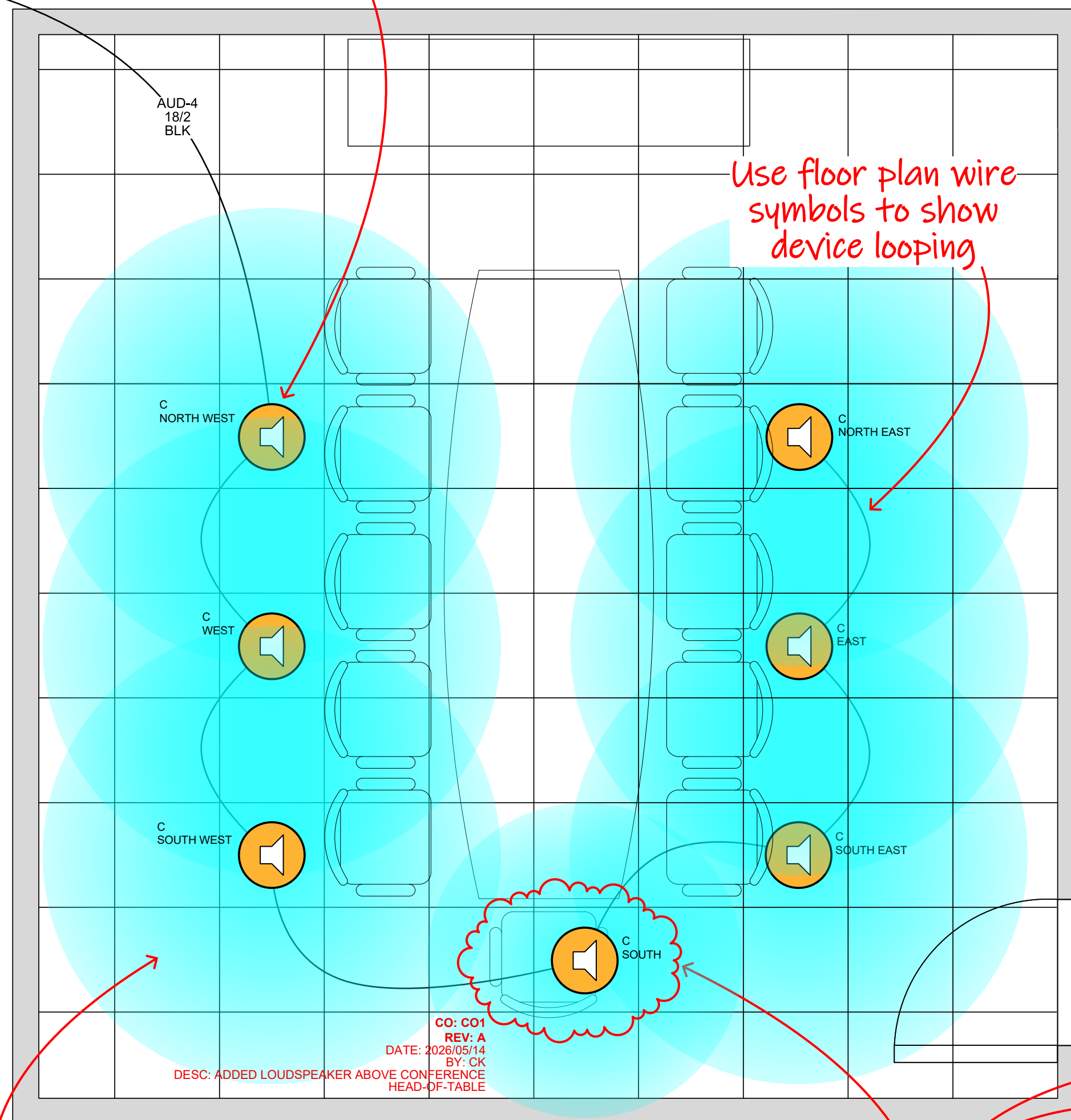
Pinpoint keypad locations using the wall leader lines

Floor plan symbols provide angular and circular coverage options

Create any unique custom symbol in seconds using the Load Icon feature

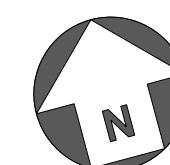
AV RACK

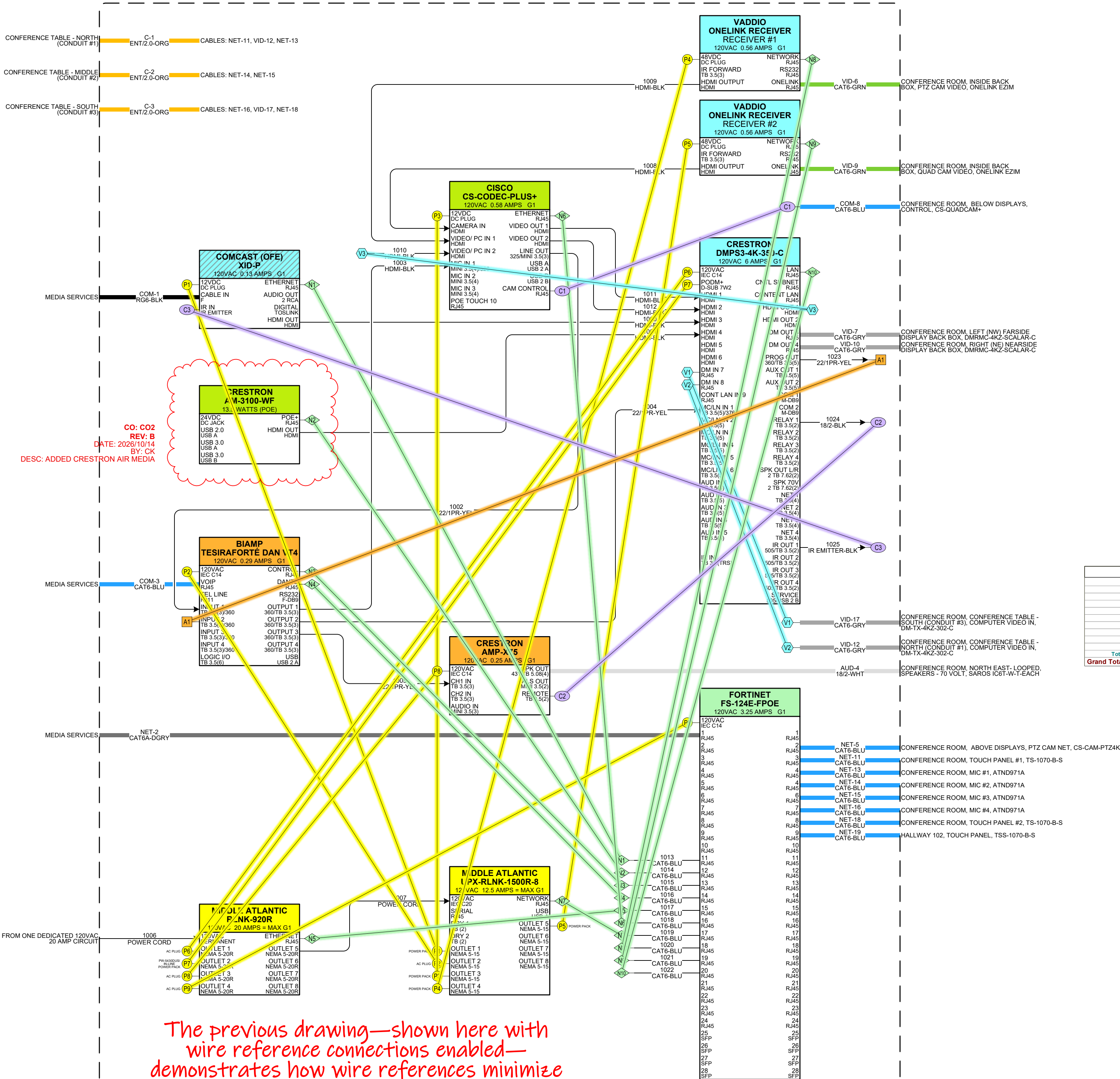
HALLWAY 102



REFLECTED CEILING PLAN

Change orders and drawing revisions can display on page title blocks and Cloud symbols

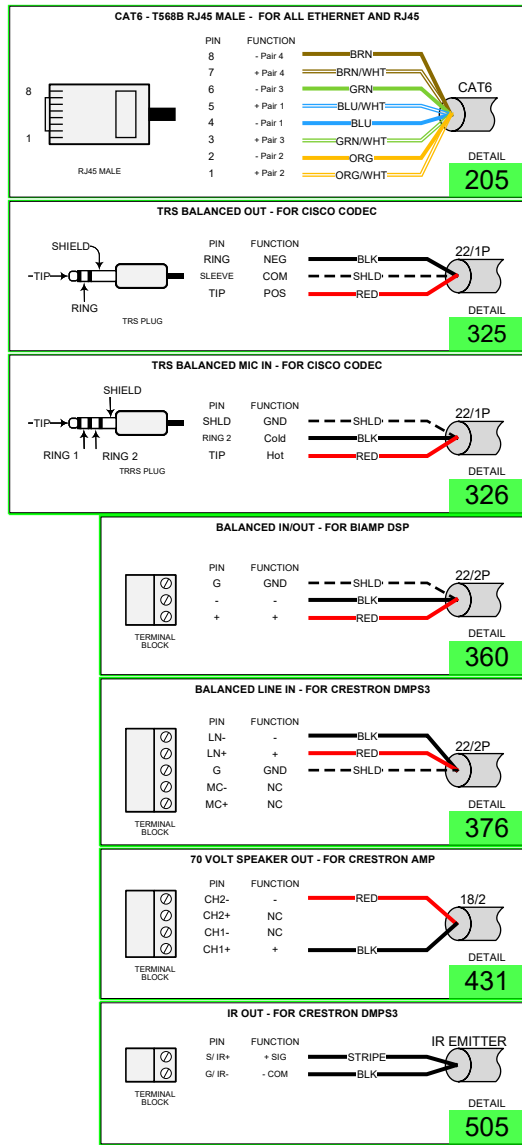




Schematic Wire Schedule by Wire Type				
	Wire Type	Wire Label	FUNCTION	Wire Length (ft)
Count	18/2-BLK	1024	Control	10
	18/2-WHT	AUD-4	Speakers - 70 Volt	100
Count	22/1PR-YEL	1002	Audio	10
	22/1PR-YEL	1004	Audio	10
	22/1PR-YEL	1005	Audio	10
	22/1PR-YEL	1023	Audio	10
Count	CAT6-BLU	1013	Network	10
	CAT6-BLU	1014	Network	10
	CAT6-BLU	1015	Network	10
	CAT6-BLU	1016	Network	10
	CAT6-BLU	1017	Network	10
	CAT6-BLU	1018	Network	10
	CAT6-BLU	1019	Network	10
	CAT6-BLU	1020	Network	10
	CAT6-BLU	1021	Network	10
	CAT6-BLU	1022	Network	10
	CAT6-BLU	COM-3	VOIP Feed	100
	CAT6-BLU	COM-8	Control	100
	CAT6-BLU	NET-11	Touch Panel	100
	CAT6-BLU	NET-13	Mics	100
	CAT6-BLU	NET-14	Mics	100
	CAT6-BLU	NET-15	Mics	100
Count	CAT6-BLU	NET-16	Mics	100
	CAT6-BLU	NET-18	Touch Panel	100
	CAT6-BLU	NET-19	Touch Panel	100
	CAT6-BLU	NET-5	PTZ Cam Net	100
	CAT6-BLU	NET-6	PTZ Cam Net	100
	CAT6-BLU	NET-7	PTZ Cam Net	100
	CAT6-BLU	NET-8	PTZ Cam Net	100
	CAT6-BLU	NET-9	PTZ Cam Net	100
	CAT6-BLU	NET-10	PTZ Cam Net	100
	CAT6-BLU	NET-11	PTZ Cam Net	100
Count	CAT6-BLU	VID-6	PTZ Cam Video	100
	CAT6-BLU	VID-9	Quad Cam Video	100
	CAT6-BLU	VID-10	Display Video Out	100
	CAT6-BLU	VID-17	Display Video Out	100
Count	CAT6-BLU	VID-7	Display Video Out	100
	CAT6-BLU	VID-10	Computer Video In	100
	CAT6-BLU	VID-17	Computer Video In	100
	CAT6-BLU	VID-17	Computer Video In	100
Count	CAT6-BLU	NET-2	Network Feed	100
	CAT6-BLU	NET-2	Network Feed	100
	CAT6-BLU	NET-2	Network Feed	100
	CAT6-BLU	NET-2	Network Feed	100
Count	HDMI-BLK	1000	Video	10
	HDMI-BLK	1001	Video	10
	HDMI-BLK	1003	Video	10
	HDMI-BLK	1008	Video	10
Count	HDMI-BLK	1009	Video	10
	HDMI-BLK	1010	Video	10
	HDMI-BLK	1011	Video	10
	HDMI-BLK	1012	Video	10
Count	IR EMITTER-BLK	1025	IR	10
	IR EMITTER-BLK	1025	IR	10
Count	POWER CORD	1006	Power	10
	POWER CORD	1007	Power	10
Count	RG6-BLK	COM-1	Cable TV Feed	100
	RG6-BLK	COM-1	Cable TV Feed	100

AC Current Totals			
Power Connection Group	Manufacturer	Model No	Current [Typical] (Amps)
1	Creston	AM-3100-WF	0.11
1	Comcast (OFE)	XID-P	0.13
1	Creston	AMP-X75	0.25
1	Biamp	TesiraFORTE DAN V14	0.29
1	Vaddio	Onelink Receiver	0.56
1	Vaddio	Onelink Receiver	0.56
1	Cisco	CS-CODEC-PLUS+	0.58
1	Fortinet	FS-124E-FPOE	3.25
1	Creston	DMP33-4K-350-C	6
Total			11.73
Grand Total			11.73

I/O TERMINATION DETAILS



HEADEND CONNECTION DETAILS

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TITLE
AV CONFERENCE ROOM

DESCRIPTION
RACK SCHEMATICS WITH CONNECTIONS

CHANGE ORDER (CO)
CO2

DRAWING REVISION (REV)
B

PROJECT MANAGER

DRAWN BY

DATE
06/09/2026

REVISED
06/09/2026

NEXT WIRE NO.
1026

SCALE
NONE

PROJECT NUMBER

PAGE
5 OF 10

DEVICE CATEGORY COLORS			
AUDIO	COMM	LTG	VAC
VIDEO	POWER	SHD	FUR
CONTROL	NET	INFRA	SEC
AV	AV	AV	AV

DEVICE STATUS	
NEW	EXISTING
REMOVED	FUTURE

DEVICE MOUNT TYPE ABBREVIATIONS	
C = CEILING	POD = PODIUM
DES = DESKTOP	POL = POLE
FL = FLOOR	RK = RACK
F = FLUSH	R = ROOF
H = HIDDEN	SH = SHELF
G = GROUND	REC = RECESSED
M = MULLION	S = SURFACE
O = OUTDOOR	T = TURNSTYLE
P = PEDISTAL	W = WALL

ROOM CONNECTION DETAILS

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TITLE
AV CONFERENCE ROOM

DESCRIPTION
ROOM SCHEMATICS

CHANGE ORDER (CO)
CO1

DRAWING REVISION (REV)
A

PROJECT MANAGER

DRAWN BY

DATE
06/09/2026

REVISED
06/09/2026

NEXT WIRE NO.
2029

SCALE
NONE

PROJECT NUMBER

PAGE
6 OF 10

Areas within a room

Room

Change order & revision cloud

Product assemblies can be shown by stacking component device symbols

Schematic infrastructure wires are transformed from block diagram wires

Local power feed symbol

All symbols have optional reminder notes

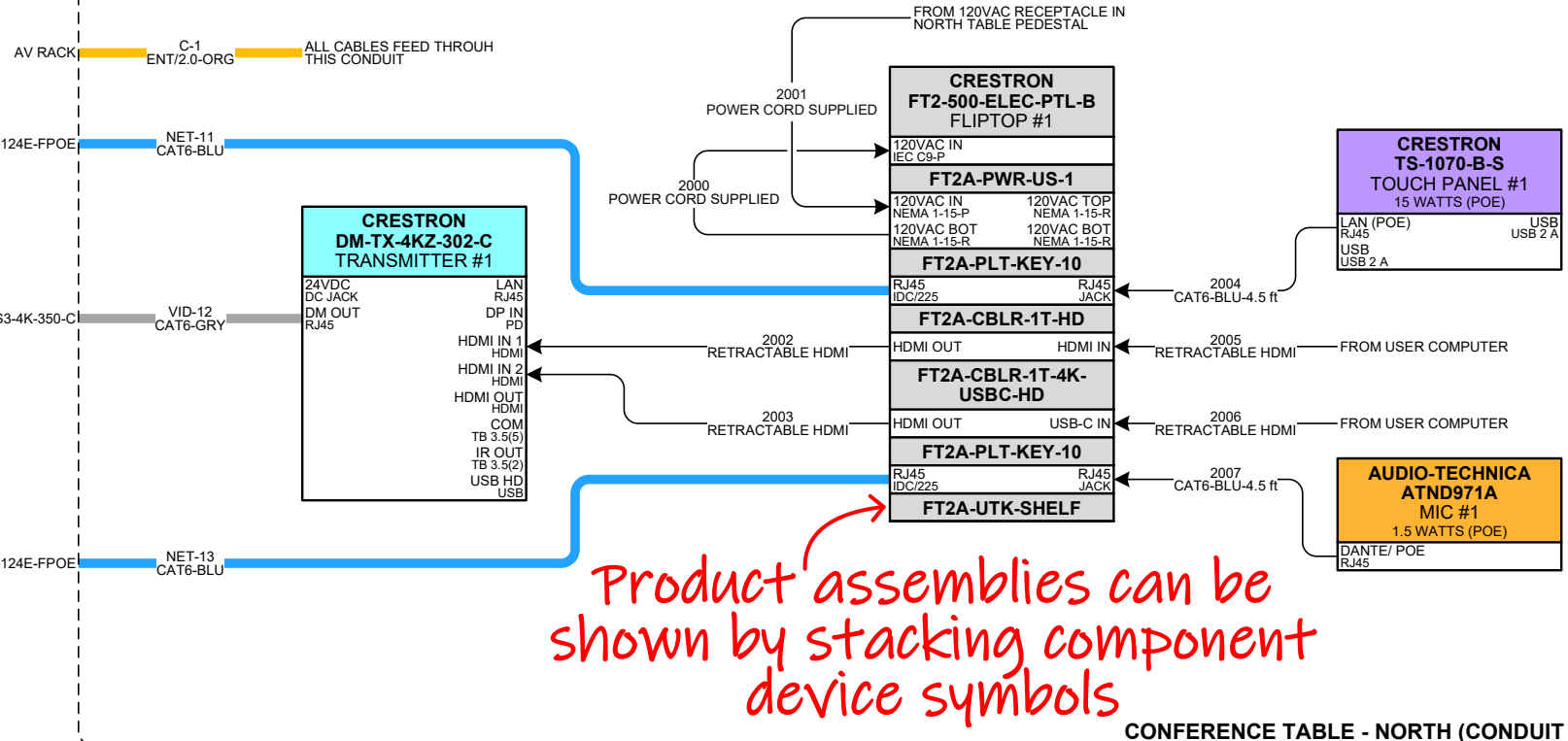
Local power feed symbol

Interconnect wires

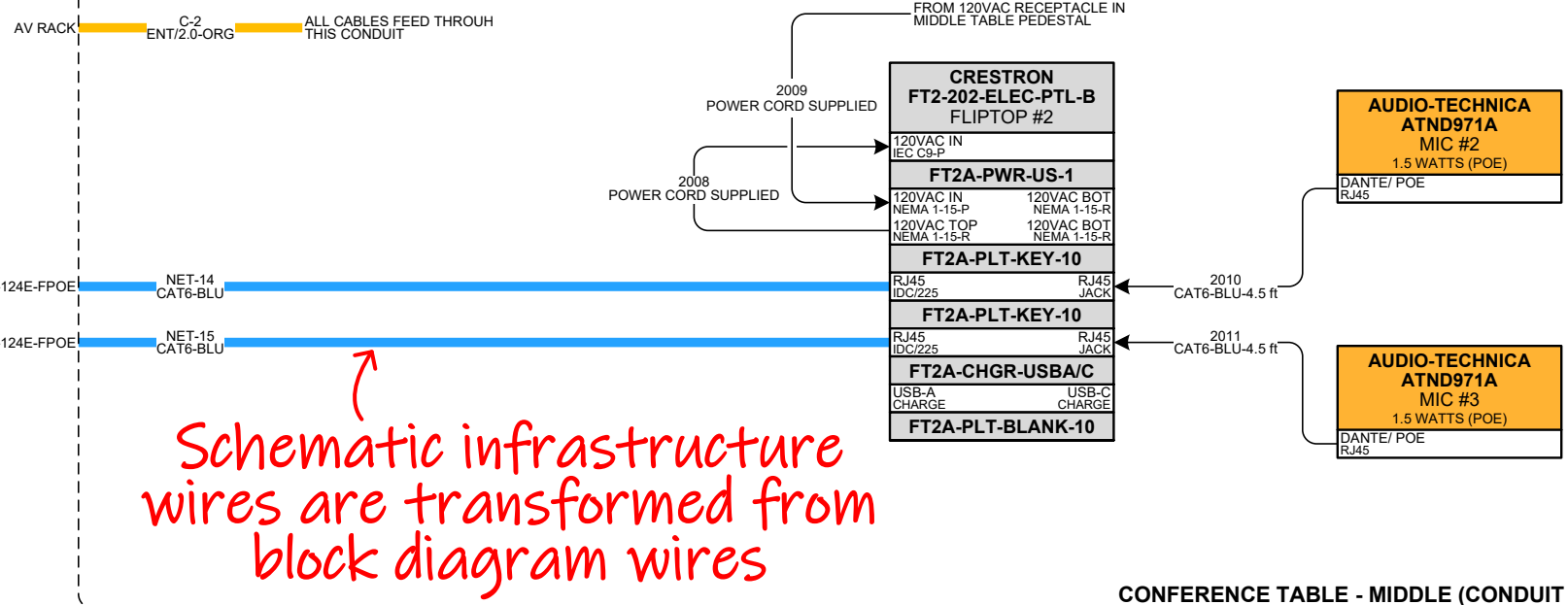
Industry standard and custom wire termination symbols include detail IDs, which can be referenced in the schematic symbol's I/O

Devices, Wires, and area text are transformed from the previous block diagram symbols

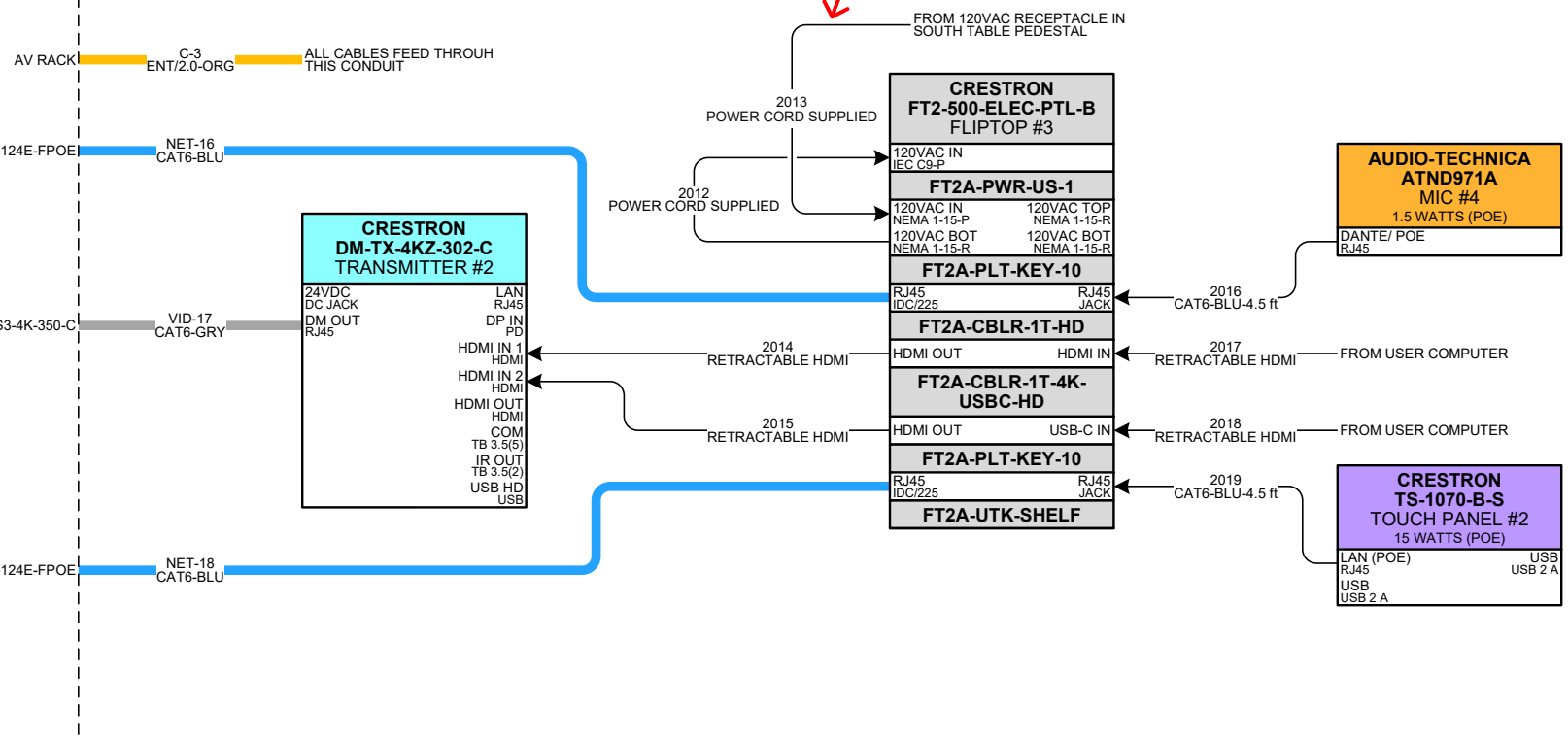
Room



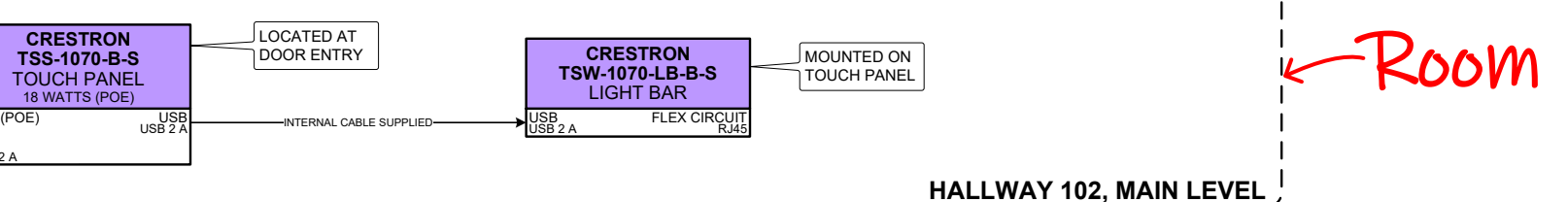
CONFERENCE TABLE - NORTH (CONDUIT #1)



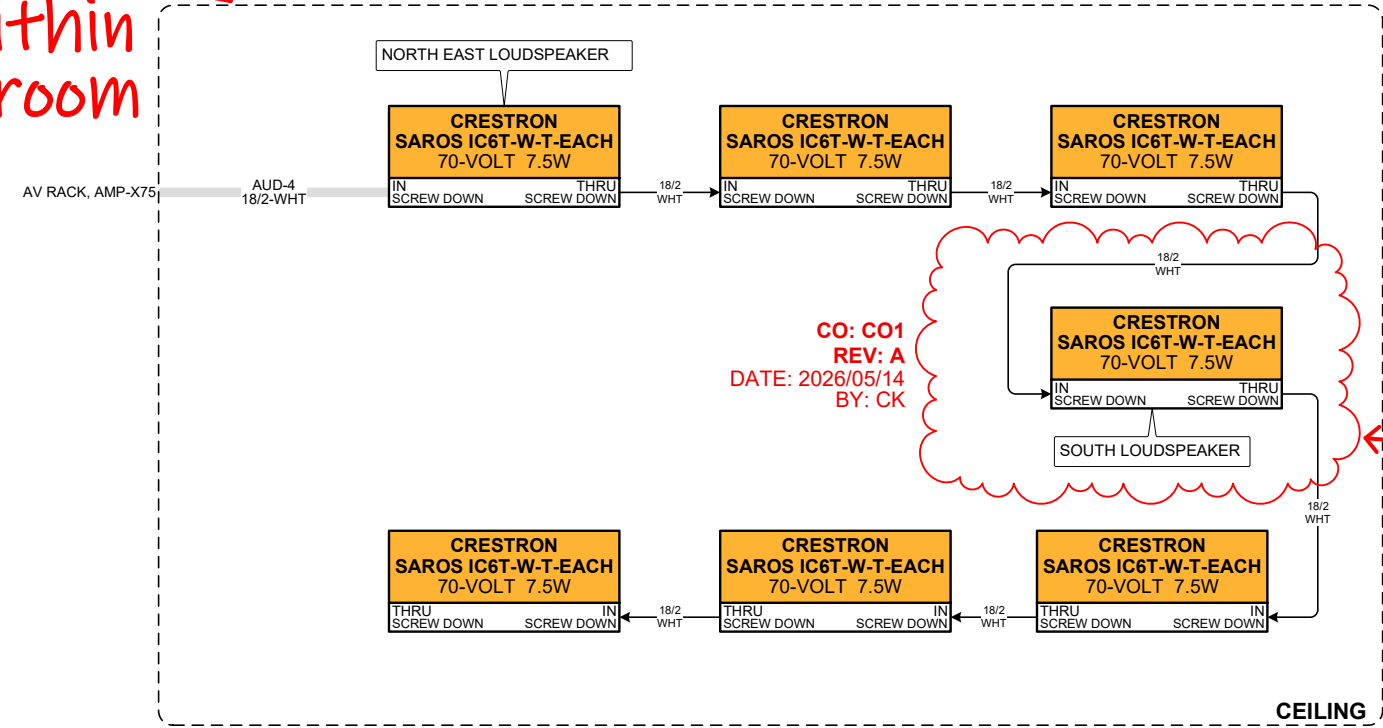
CONFERENCE TABLE - MIDDLE (CONDUIT #2)



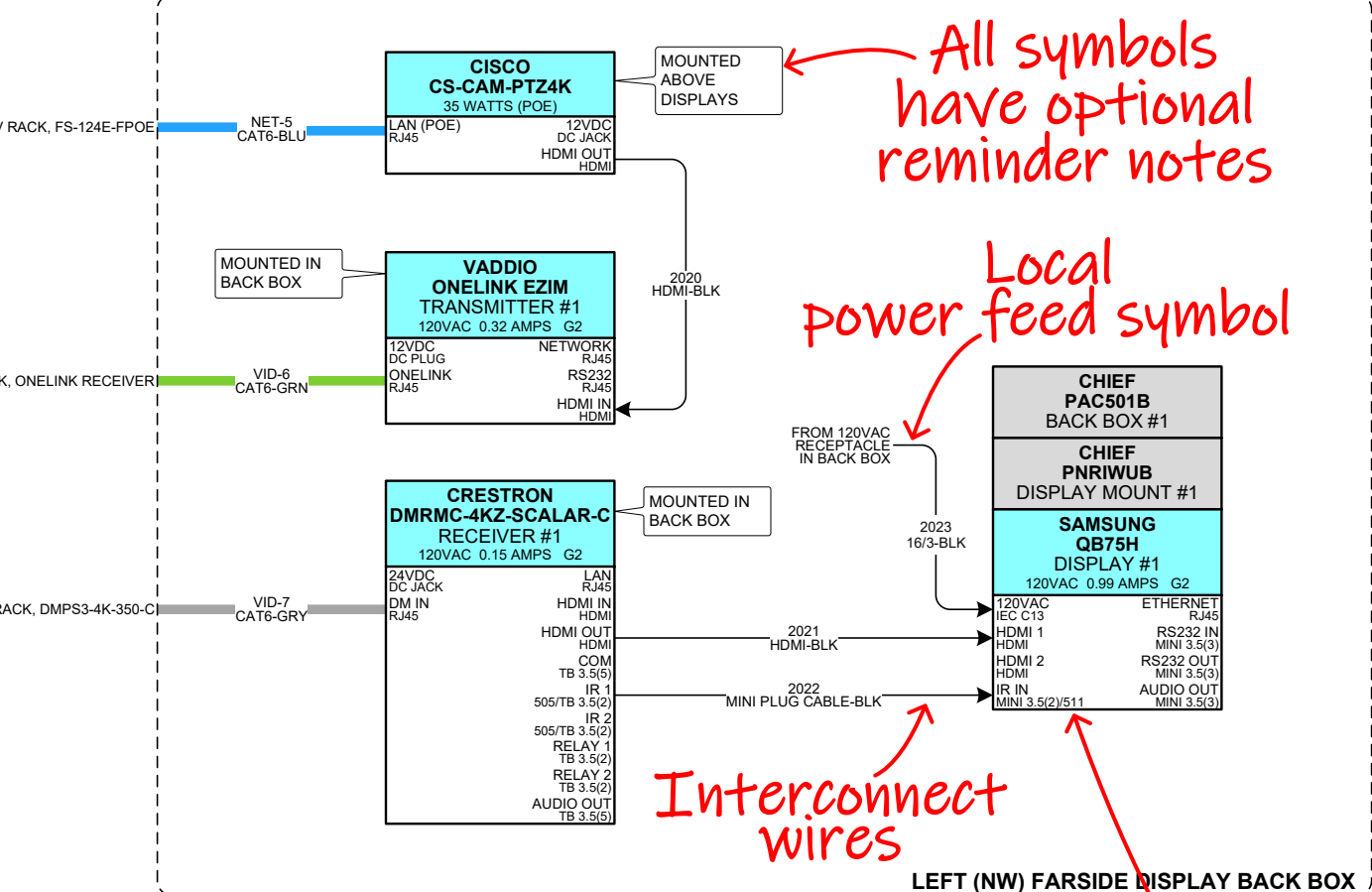
CONFERENCE TABLE - SOUTH (CONDUIT #3)



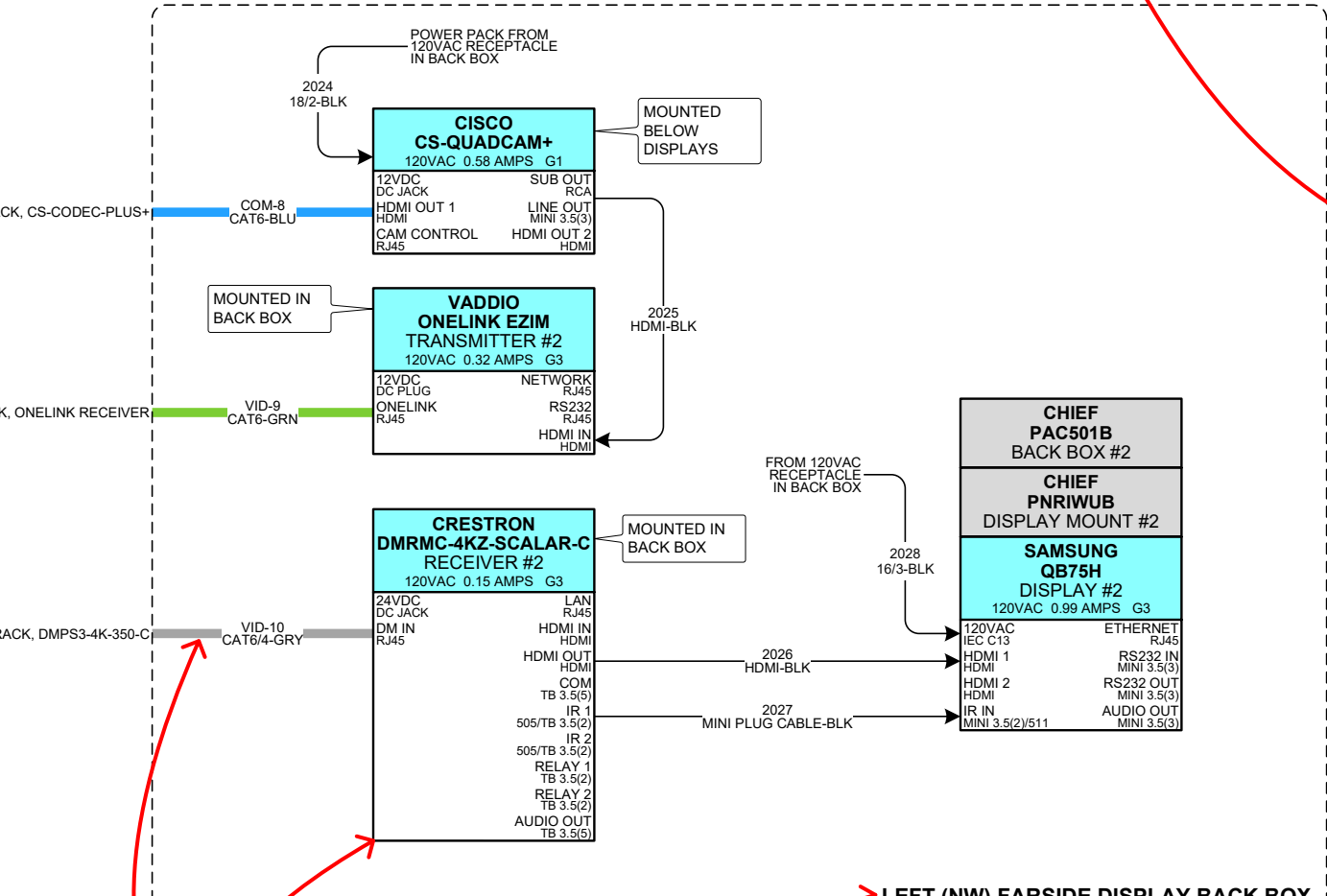
HALLWAY 102, MAIN LEVEL



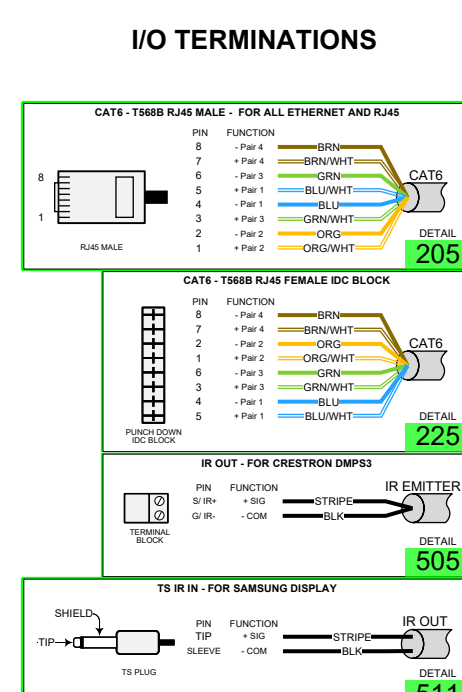
CEILING



LEFT (NW) FARSIDE DISPLAY BACK BOX

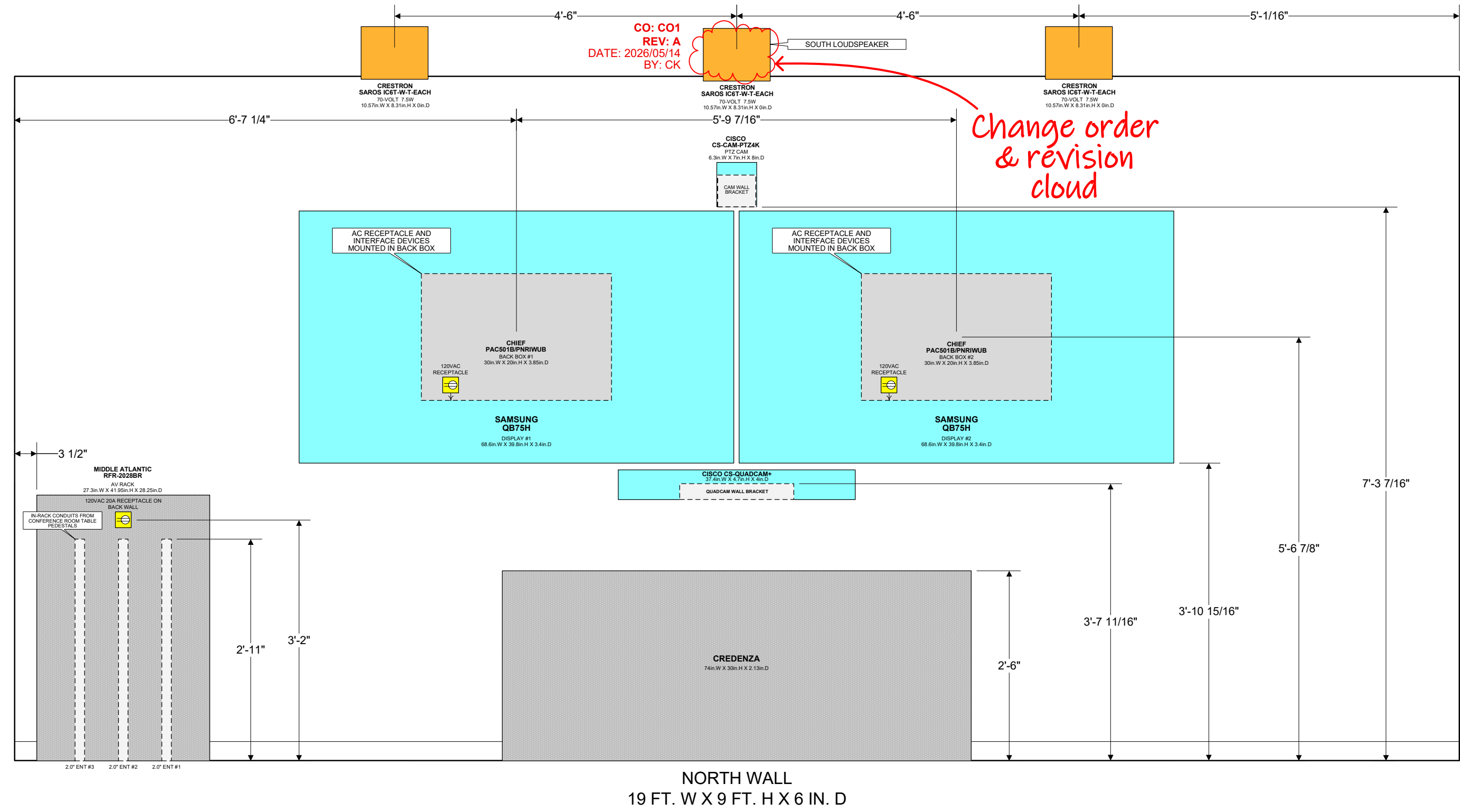


LEFT (NW) FARSIDE DISPLAY BACK BOX



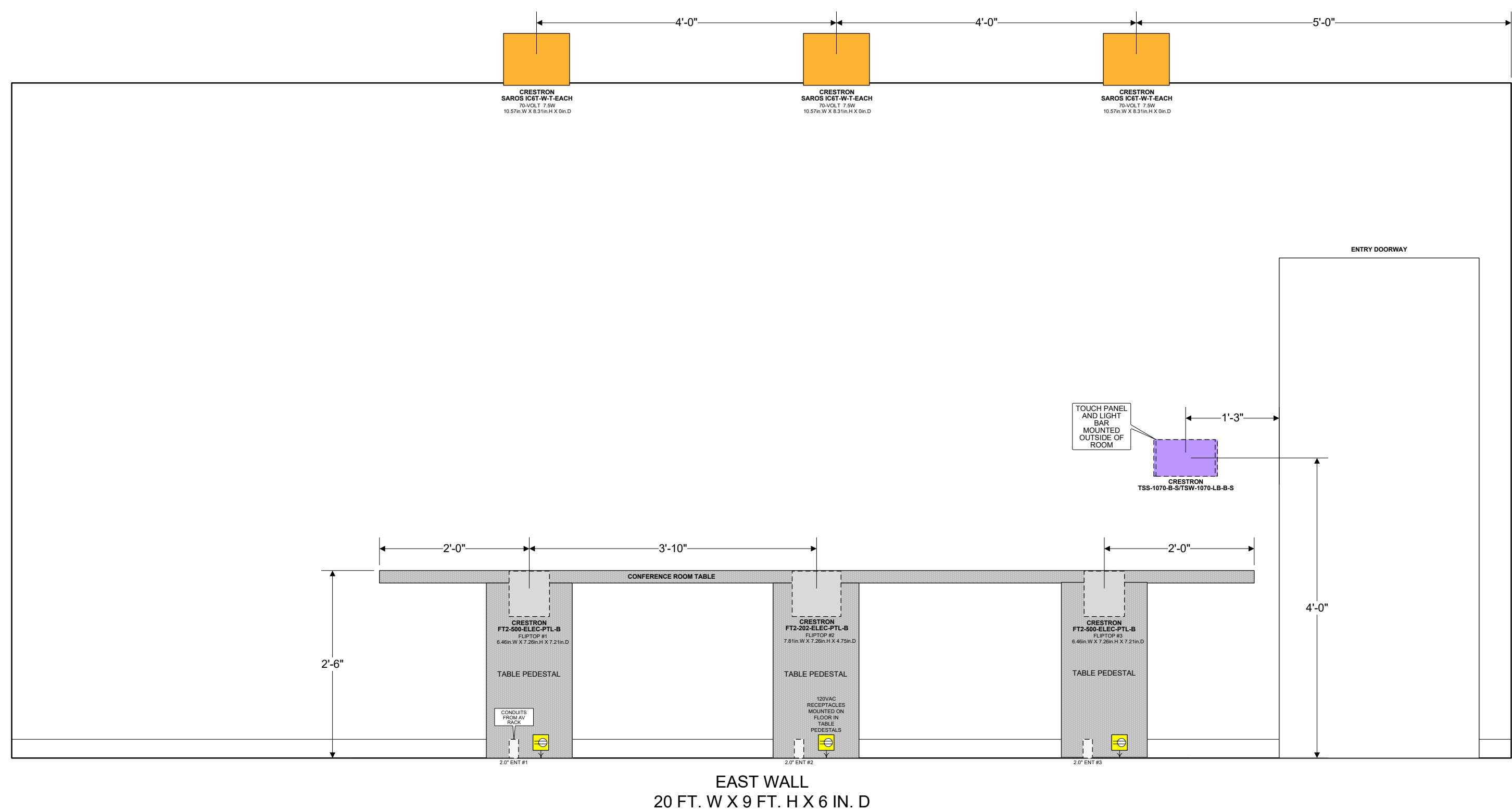
I/O TERMINATIONS

Device symbols from previous pages are transformed into scaled wall-mounted devices and placed on this page



The Wall elevations symbol library provides elements such as walls, blocking, wall studs, raceways, panels, backboxes, and enclosures to support your wall and room layout design

Each symbol offers numerous attributes and display options



INTEGRITY DESIGN GROUP

INTEGRITY DESIGN GROUP
194 WEST STREET
MILFORD, MA 01747
(617) 313-9000
INTEGRITYDESIGNGROUP.IO

DEVICE CATEGORY COLORS

AUD	COM	LTH	VAC
AUDIO	COMMUNICATIONS	LIGHTING	VACUUM
VID	PRN	SHD	FUR
VIDEO	POWER	SHADES	FURNISHINGS
CON	HW	HW	HW
CONTROL	HVAC	HARDWARE	HW
NET	SUR	ACS	SEC
NETWORK	SURVEILLANCE	ACCESS	SECURITY
INFRASTRUCTURE		CONTROL	ALARM

DEVICE STATUS

NEW	EXISTING	REMOVE
-----	----------	--------

DEVICE MOUNT TYPE ABBREVIATIONS

C = CEILING	POD = PODIUM
DES = DESKTOP	POL = POLE
FL = FLOOR	RK = RACK
F = FLUSH	R = ROOF
G = GROUND	REC = RECESSED
H = HIDDEN	SH = SHELF
M = MULLION	S = SURFACE
O = OUTDOOR	T = TURNSTYLE
P = PEDISTAL	W = WALL

ROOM & WALL CONSTRUCTION

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TITLE

AV CONFERENCE ROOM

DESCRIPTION

WALL ELEVATIONS

CHANGE ORDER (CO)

CO1

DRAWING REVISION (REV)

A

PROJECT MANAGER

DRAWN BY

DATE

06/09/2026

REVISED

06/09/2026

NEXT WIRE NO.

SCALE

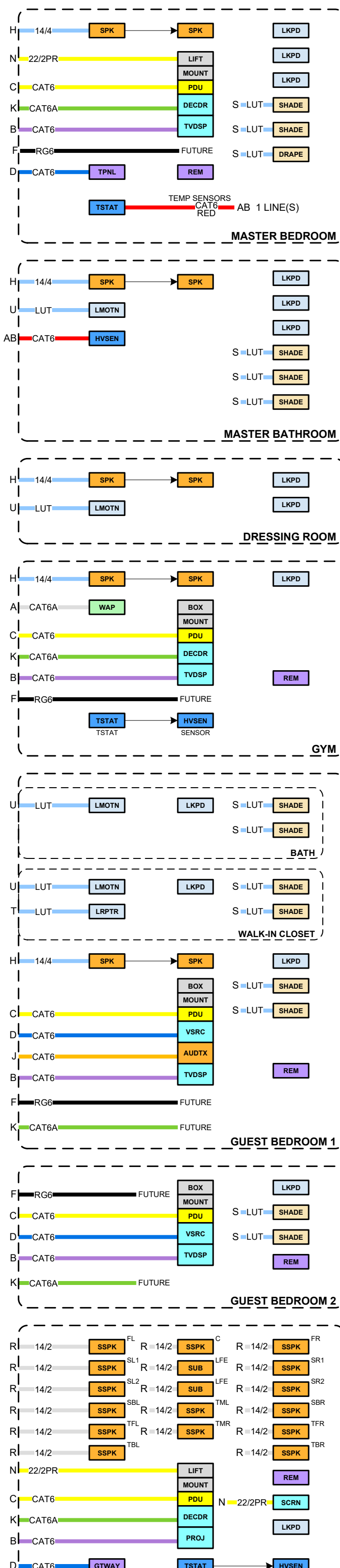
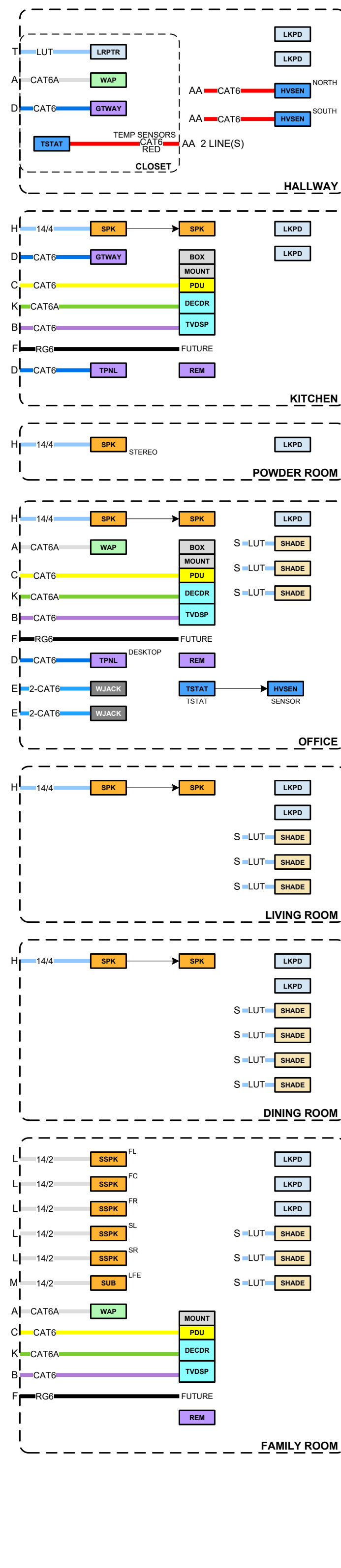
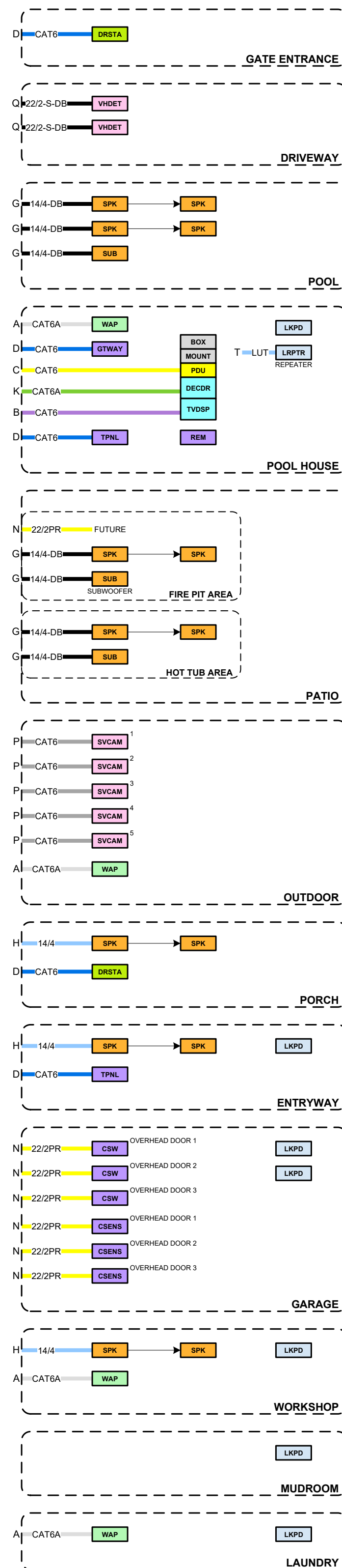
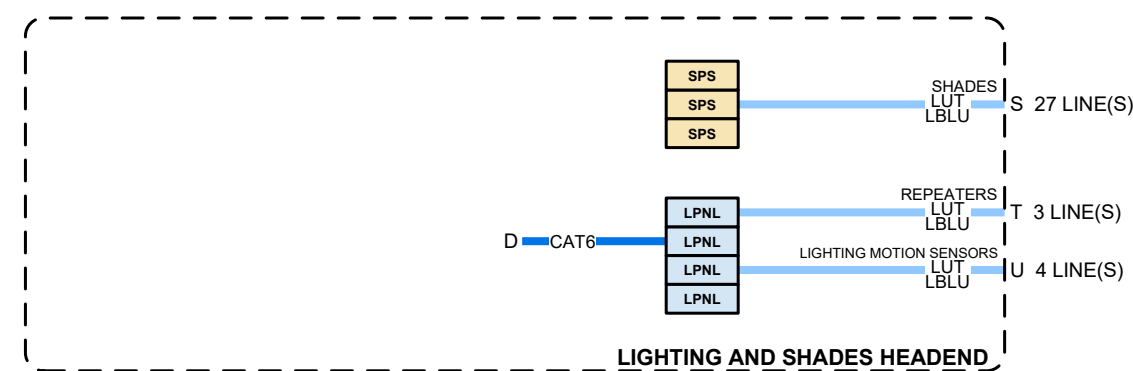
3/4" = 1'-0"

PROJECT NUMBER

PAGE

8 OF 10

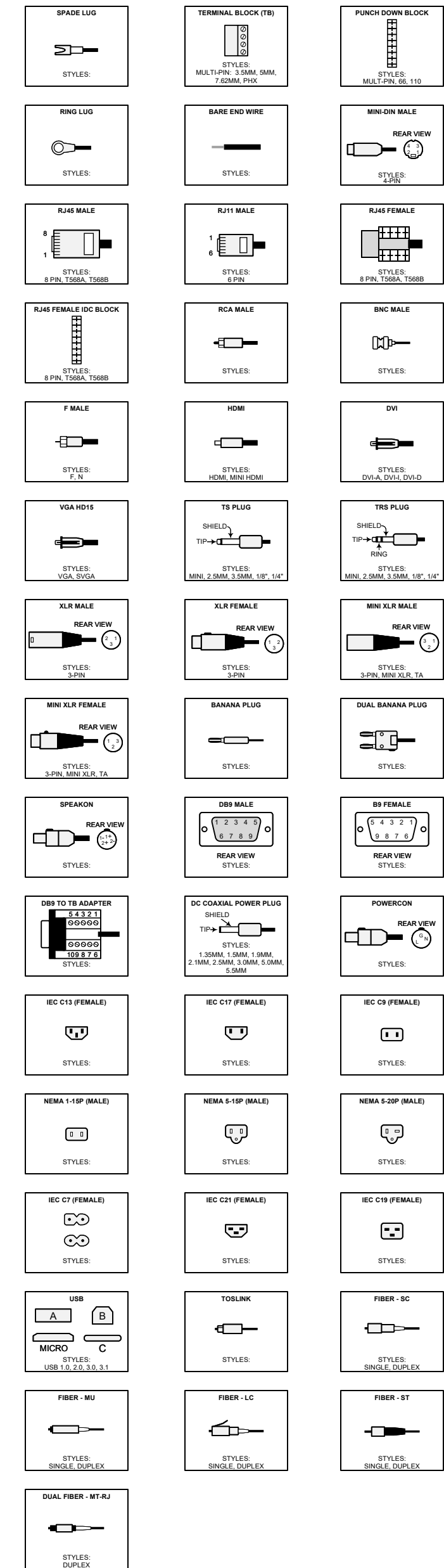
Simply reconfigure this block diagram and ECAV will do the rest



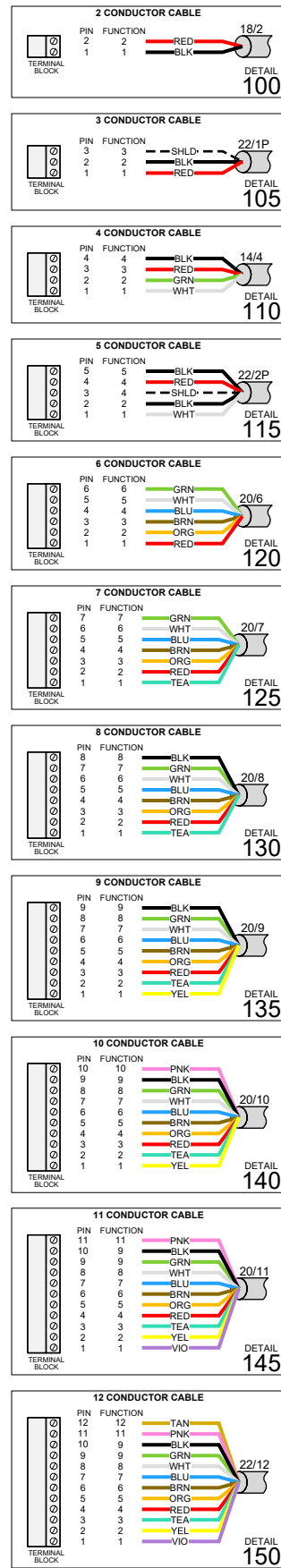
Block Diagram Device Legend				
Reference ID	Manufacturer	Model No	Subcategory	Quantity
AMP	Manufacturer	Model No.	Amplifier	15
APR	Manufacturer	Model No.	Processor	1
ASRC	Manufacturer	Model No.	Source	4
ASW	Manufacturer	Model No.	Switcher	1
AUDRX	Manufacturer	Model No.	Receiver	1
AUDTX	Manufacturer	Model No.	Transmitter	1
AVR	Manufacturer	Model No.	AVR	1
BOX	Manufacturer	Model No.	Box	6
CPMG	Manufacturer	Model No.	Processor	1
CSENS	Manufacturer	Model No.	Sensor	3
CSW	Manufacturer	Model No.	Switch	3
DECOD	Manufacturer	Model No.	Decoder	9
ADPT	Manufacturer	Model No.	Adapter	1
DRSTA	Manufacturer	Model No.	Door Station	2
ENCOD	Manufacturer	Model No.	Encoder	4
GTWAY	Manufacturer	Model No.	Gateway	4
HLMT	Manufacturer	Model No.	Headset	1
LIFT	Manufacturer	Model No.	Lift	2
LKPD	Manufacturer	Model No.	Keypad	34
LMOTN	Manufacturer	Model No.	Motion Sensor	1
LSREL	Manufacturer	Model No.	Relay	1
LRPRT	Manufacturer	Model No.	Repeater	3
MODEM	Manufacturer	Model No.	Modem	1
MOUNT	Manufacturer	Model No.	Mount	9
NEUR	Manufacturer	Model No.	Neural Network	1
NVR	Manufacturer	Model No.	NVR	1
PDU	Manufacturer	Model No.	PDU	12
PROB	Manufacturer	Model No.	Probe	1
RACK	Manufacturer	Model No.	Rack	2
REM	Manufacturer	Model No.	Remote	9
ROUTR	Manufacturer	Model No.	Router	1
SCN	Manufacturer	Model No.	Scanner	1
SHADE	Manufacturer	Model No.	Shade	26
SPK	Manufacturer	Model No.	Speaker	33
SPS	Manufacturer	Model No.	Power Supply	3
SSP	Manufacturer	Model No.	Surveillance System	20
SUB	Manufacturer	Model No.	Subwoofer	6
SVCAM	Manufacturer	Model No.	Camera	5
TPNL	Manufacturer	Model No.	Touch Panel	5
TSAT	Manufacturer	Model No.	TSAT	1
TVDSP	Manufacturer	Model No.	Display	8
UPS	Manufacturer	Model No.	UPS	3
VHCTL	Manufacturer	Model No.	Vehicle Controller	2
VHDEV	Manufacturer	Model No.	Vehicle Device	2
VSRC	Manufacturer	Model No.	Source	6
WAP	Manufacturer	Model No.	Access Point	8
WBLK	Manufacturer	Model No.	Wired Block	2
WJACK	Manufacturer	Model No.	Wall Jack	3

- Never start a project from scratch again
- Simple graphical design on a single page
- Multi-system design at any budget level
- Four variable pricing tiers
- Design, estimate, and infrastructure wiring in a single step
- Design results include reports (tables) detailing price-range estimates by system or by room, as well as infrastructure wiring plans
- Save your designs as templates for jump-starting future projects & estimates

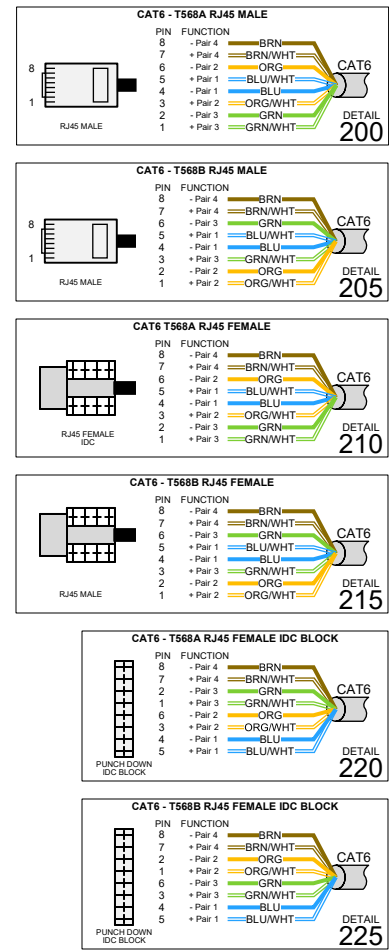
COMMON TERMINATION TYPES



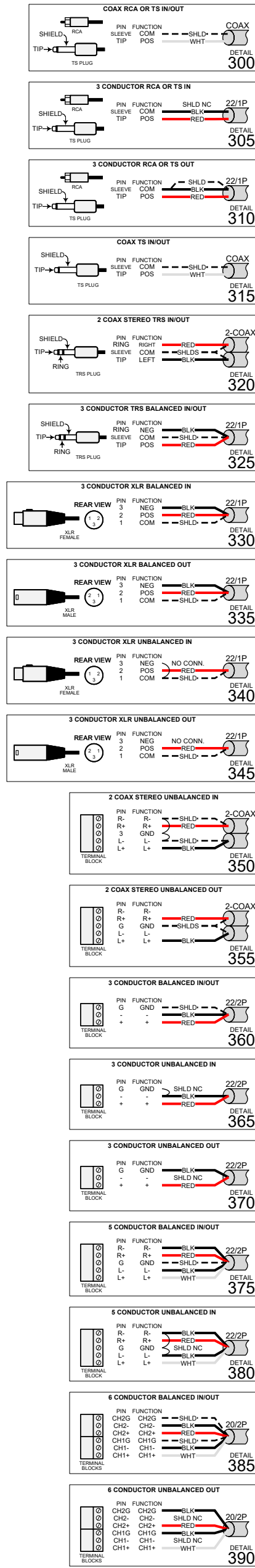
GENERAL



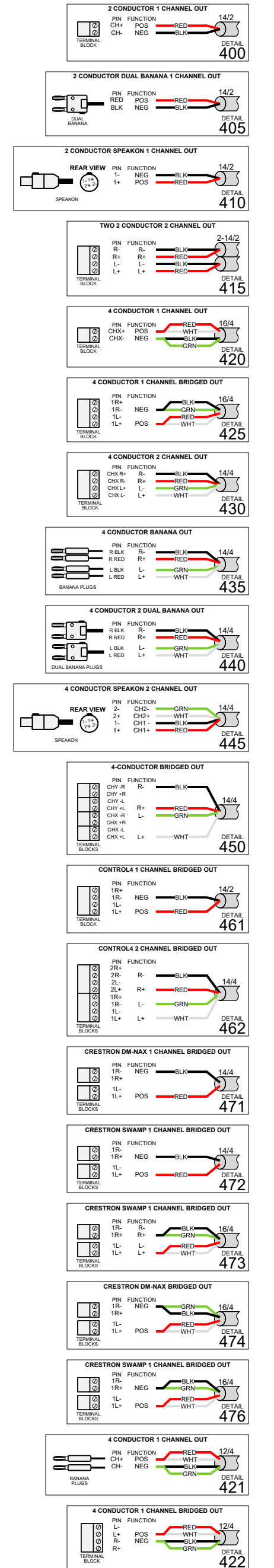
NETWORK



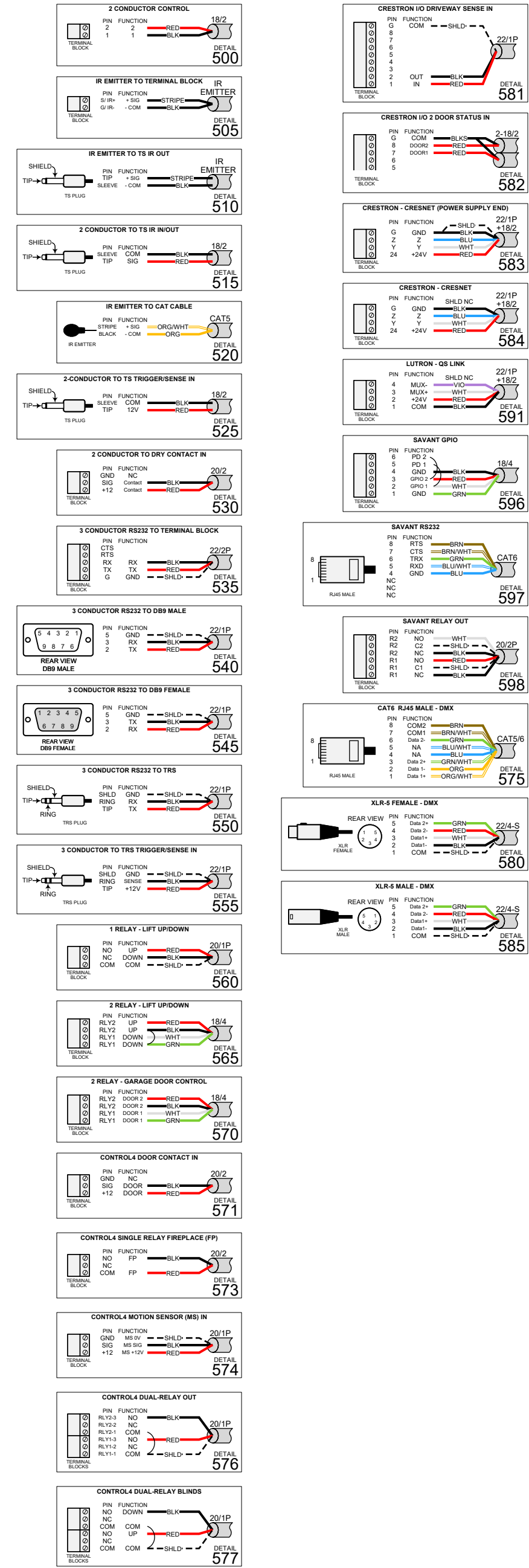
AUDIO



LOUDSPEAKER



CONTROL



Customizable wire terminations display all connector pinouts, conductor labels, colors, and functions, eliminating the need for technicians to search elsewhere for termination details

The specific termination symbols used in the project can be copied directly to the schematic pages