

**LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	NOTE CALLOUT		DOWNLIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN		EMERGENCY DOWNLIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
	MECHANICAL EQUIPMENT CALLOUT. SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS		PENDANT LUMINAIRE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	SECTION CALLOUT		WALLWASH LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	FEEDER CALLOUT		WALL MOUNTED LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EXISTING FEEDER CALLOUT		EMERGENCY WALL MOUNTED LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
	PRIMARY DAYLIGHT ZONE		BOLLARD LUMINAIRE
	SECONDARY DAYLIGHT ZONE		POST TOP LUMINAIRE
	NEW LINework		POLE MOUNTED LUMINAIRE, SINGLE HEAD
	EXISTING LINework		POLE MOUNTED LUMINAIRE, DOUBLE HEAD
	DEMOLISHED LINework		POLE MOUNTED LUMINAIRE, TRIPLE HEAD
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING		POLE MOUNTED LUMINAIRE, QUAD HEAD
	CONDUIT EXPOSED		IN GRADE LUMINAIRE
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR		PATHWAY LUMINAIRE
	CONDUIT EMERGENCY		LANDSCAPE FIXTURE
	MULTI-CHANNEL RACEWAY		EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS AS INDICATED. SHADED SIDE DENOTES NUMBER OF FACES
	CONDUIT TURNED UP		JUNCTION BOX
	CONDUIT CAPPED		PHOTOCELL SENSOR
	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED		DAYLIGHT SENSOR - CEILING MOUNTED
	3/4" CONDUIT. TICK MARKS INDICATE QUANTITY OF #12 AWG WIRES (UNLESS NOTED OTHERWISE, NO MARKS INDICATES 2#12 & 1#12 GND WIRES) - SMALL MARK DENOTES HOT WIRE - LARGE MARK DENOTES NEUTRAL WIRE - DIAGONAL DENOTES GROUND WIRE		RELAY
	GENERATOR CIRCUIT BREAKER SWITCH		EMERGENCY RELAY UL 924 COMPLIANT
	2-WAY SWITCH, TRANSFER SWITCH		MOTION SENSOR - CEILING MOUNTED
	FUSE		MOTION SENSOR - CORNER OR WALL MOUNTED
	TRANSFORMER MOTOR - SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER		MOTION SENSOR WITH AISLE/CORRIDOR LENS - CEILING MOUNTED
	GROUND CONNECTION		COMBINATION MOTION AND DAYLIGHT SENSOR
	METER		LIGHTING CONTROL NETWORK DEVICE
	480V DRAWOUT BREAKER ELECTRICAL CIRCUIT MONITOR		DIGITAL TIMER SWITCH
	VARIABLE FREQUENCY DRIVE		MOTION SENSOR SWITCH
	PANEL		LOW VOLTAGE SWITCH
	FUSED DISCONNECT SWITCH		DIMMER MASTER SWITCH
	NON-FUSED DISCONNECT SWITCH		DIGITAL DIMMING SWITCH
	COMBINATION STARTER/DISCONNECT SWITCH		GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION
	SWITCH MOTOR RATED		THERMOSTAT WITH A 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
	SPlice		MODULAR FURNITURE - BASE POWER WHIP FEED CONNECTION
	TERMINATION		MODULAR FURNITURE - FLOOR BOX FEED CONNECTION
	EXISTING TERMINATION		MODULAR FURNITURE - POWER POLE FEED CONNECTION
	MEDIUM VOLTAGE FUSED DISCONNECT SWITCH		20A, 125V MODULAR FURNITURE RECEPTACLE (TO BE PROVIDED AS PART OF THE FURNITURE)
	MEDIUM VOLTAGE MODULAR SPlice		20A, 125V MODULAR FURNITURE RECEPTACLE (HALF) CONTROLLED RECEPTACLE (TO BE PROVIDED AS PART OF THE FURNITURE)
	MEDIUM VOLTAGE EXISTING MODULAR SPlice		LIGHTING CONTROL PANEL - SURFACE MOUNTED
	2x4 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		PANELBOARD - RECESSED MOUNTED
	2x4 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP		PANELBOARD - SURFACE MOUNTED
	2x2 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		DISTRIBUTION PANEL/ BOARD
	2x2 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP		SINGLE POLE SWITCH. DEVICE SHALL BE MOUNTED +48" MAX AND +36" MIN FROM THE CENTER OF DEVICE.
	LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		SWITCH 3-WAY (48" AFF MAXIMUM)
	EMERGENCY LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP		TIMER SWITCH (48" AFF MAXIMUM)
	LINEAR PENDANT LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		DUAL SWITCH (48" AFF MAXIMUM)
	TRACK LIGHTING - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		PUSHBUTTON SWITCH
	UNDERCABINET / COVE FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		RECESSED ON WALL SURFACE
	LED STRIP LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		RECESSED FLOOR BOX - POWER/TEL/DATA

**ABBREVIATIONS**

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
&	AND	KW	KILOWATT
(R)	EXISTING CIRCUIT BREAKER WITH REVISED LOAD	LFMC	LINEAR FEET
1/C	SINGLE CONDUCTOR	LFSST	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
@	AT	LIS	LOAD INTERRUPTER SWITCH
A OR AMP	AMPERES	LOC.	LOCATION
A.C.	ASPHALT CONCRETE	LO	LOCK-OUT & TAG-OUT
ABV	ABOVE	LSI	LONG TERM, SHORT TERM, INSTANTANEOUS
AF	AMPERE FUSE RATING	LSIG	LONG TERM, SHORT TERM, INSTANTANEOUS GROUNDING LIGHTING
AFC	AVAILABLE FAULT CURRENT	LTG	LOW VOLTAGE
AFF	ABOVE FINISHED FLOOR	LV	METER
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AIC	AMPERE INTERRUPTING CAPACITY	MCA	MINIMUM CIRCUIT AMPS
AL	ALUMINUM	MCC	MOTOR CONTROL CENTER
APPROX.	APPROXIMATE	MCP	MOTOR CIRCUIT PROTECTOR
ARCH.	ARCHITECT; ARCHITECTURAL	MFR, MFR	MANUFACTURER
AS	AMPERE SWITCH RATING	MH	MANHOLE
ASCC	AVAILABLE SHORT CIRCUIT CURRENT	MI	MECHANICAL INTERLOCK
ATC	AIR TERMINAL CHAMBER	MIN	MINIMUM
ATO	AUTOMATIC THROW-OVER (SWITCH)	MOCPP	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	MPTCT	MULTI-RATIO CURRENT TRANSFORMER
AUTO	AUTOMATIC	MTD	MOUNTING
AUX	AUXILIARY	MTG	MOUNTING
AWG	AMERICAN WIRE GAUGE	MTR	MOTOR
B.S.	BARE STRANDED	MTTB	MAIN TELEPHONE TERMINAL BOARD
BAT	BATTERY	MV	MEDIUM VOLTAGE
BEL	BELOW	N	NORTH
BKBD	BACKBOARD	MAC	NOTIFICATION APPLIANCE CIRCUIT
BKR	BREAKER	NC	NORMALLY CLOSED
BLDG	BUILDING	NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NF	NON-FUSED
C.O.	CONDUIT ONLY WITH PULL WIRE	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT- 24HRS ON
CC	CONSTANT CURRENT	NO.	NUMBER
CKT	CIRCUIT	OC	ON CENTER
CL	CENTER LINE	OCPP	OVERCURRENT PROTECTIVE DEVICE
CLG	CEILING	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OE	OVERHEAD ELECTRICAL
COL	COLUMN	OFC	OIL FUSED CUTOFF
CP	COMMUNICATION PROCESSOR	OH	OVER HEAD
CPT	CONTROL POWER TRANSFORMER	OL	OIL LEVER SWITCH
CR	CONTROL RELAY	P	POLE
CSFD	COMBINATION SMOKE FIRE DAMPER	PAC	PROGRAMMABLE AUTOMATION CONTROLLER
CT	CURRENT TRANSFORMER	PB	PULL BOX
CU	COPPER	PC	PHOTOCELL
CW	COLD WATER	PCB	POLYCHLORINATED BIPHENYL
DIAG	DIAGRAM	PDS	PRESSURE DIFFERENTIAL SWITCH
DIS	DISCONNECT	PF	POWER FACTOR
DIST.	DISTANCE	PH OR Ø	PHASE
DL	DAMP LOCATION LISTING	PILC	PAPER INSULATED, LEAD COVER
DM	DIGITAL METER	PIV	POST INDICATING VALVE
DMM	DIGITAL METER MODULE	PL	PLATE
DP	DISTRIBUTION PANEL	PLC	PROGRAMMABLE LOGIC CONTROLLER
DWG	DRAWING	PLN	PANEL
DWP	DEPARTMENT OF WATER & POWER	PNC	POINT OF CONNECTION
EA	EACH	PREF	PREFERRED
ECM	ELECTRIC CIRCUIT MONITOR	PR	PRIMARY
ELEC.	ELECTRICAL	PVC	POLY-VINYL CHLORIDE
EM	EMERGENCY	PWR	POWER
EMH	ELECTRICAL MANHOLE	REC/RECEPT	RECEPTACLE
EMT	ELECTRICAL METALLIC TUBING	REQD	REQUIRED
EPO	EMERGENCY POWER OFF	RGS	RIGID GALVANIZED STEEL
EPR	ETHYLENE PROPYLENE RUBBER	RM	ROOM
EQUIP	EQUIPMENT	RMC	RIGID METAL CONDUIT
ERR	EXISTING TO BE RELOCATED AND RECONNECTED	RPPB	REDUCED PRESSURE BACK FLOW PREVENTER
EXIST(IE)	EXISTING	RTAC	REAL TIME AUTOMATION CONTROLLER
EXP	EXPLOSION PROOF	SCCR	SHORT CIRCUIT CURRENT RATING
FA	FIRE ALARM	SCE	SOUTHERN CALIFORNIA EDISON
FACP	FIRE ALARM CONTROL PANEL	SF	SQUARE FEET
FATC	FIRE ALARM TERMINAL CABINET	SH	SHEET
FFE	FINISHED FLOOR ELEVATION	SIG.	SIGNAL
FIN	FINISH	SP	SPARE
FIP	FIELD INTERFACE PANEL	SPECS	SPECIFICATIONS
FIXT	FIXTURE	ST	STREET
FLA	FULL LOAD AMPS	STD	STANDARD
FLR	FLOOR	STP	SHIELDED TWISTED PAIR
FLUOR	FLUORESCENT	SW	SWITCH
FMC	FLEXIBLE METAL CONDUIT	SWB	SWITCHBOARD
FO	FIBER OPTIC	SWGR	SWITCHGEAR
FT	FEET	SWST	SWITCHING STATION
FTG	FOOTING	T.O.D.	TOP OF DUCTBANK
GEN	GENERATOR	TB	TERMINAL BLOCK
GFI	GROUND FAULT INTERRUPTER	TEL.	TELEPHONE
GFR	GROUND FAULT RELAY	TEL-TELE	TELEPHONE MANHOLE
GG	GREEN GROUND	TFS	TWISTED SHIELDED PAIR
GND	GROUND	TRANSF. XFMR	TRANSFORMER
HOA	HAND-OFF-AUTOMATIC	TS	TAMPER SWITCH
HP	HORSEPOWER	TYP	TYPICAL
HT	HEIGHT	UG	UNDERGROUND
HTR	HEATER	UON	UNLESS OTHERWISE NOTED
HV	HIGH VOLTAGE	V	VOLTS
HZ	HERTZ	VA	VOLT-AMPERES
ICON	INTEGRATED COMMUNICATIONS OPTICAL NETWORK	VB	VIBRATION SWITCH
IE	INVERT ELEVATION	VD	VARIABLE FREQUENCY DRIVE
IED	INTELEGENT ELECTRONIC DEVICE	W	WATTS
IMC	INTERMEDIATE METAL CONDUIT	W/	WITH
INCAND	INCANDESCENT	WO	WITHOUT
ISC	SHORT CIRCUIT CURRENT	WP	WEATHERPROOF
J_BOX	JUNCTION BOX	Z	IMPEDANCE
KMIL	THOUSAND CIRCULAR MILS		
KV	KILOVOLT		
KVA	KILOVOLT-AMPERES		

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS AND OTHER STANDARD INDUSTRY CONVENTIONS.

**GENERAL NOTES**

- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL AND STATE. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
- MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:
  - ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCES AND DISPLACEMENT REQUIREMENTS.
    - ALL PERMANENT EQUIPMENT AND COMPONENTS.
    - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
    - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
  - THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENT SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
    - COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
    - COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
  - FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:
  - PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN LATEST SECTIONS OF CBC AND ASCE.
  - THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS. COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.
  - THE STRUCTURAL ENGINEER OF RECORD HAS VERIFIED THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

**SCOPE OF WORK**

THE PROJECT SCOPE OF WORK INCLUDES THE RENOVATION OF THE EXECUTIVE SUITE WITHIN GOLDEN WEST COLLEGE. THE ELECTRICAL SCOPE INCLUDES, BUT IT NOT LIMITED TO, NEW INTERIOR LIGHTING LAYOUT, POWER FOR NEW RECEPTACLE AND FURNITURE LAYOUT, AND POWER FOR NEW AUXILIARY LOADS.

**SHEET INDEX**

SHEET	DESCRIPTION
E001	NOTES, LEGENDS, ABBREV. & INDEX
E002	SCHEDULES
E003	PANEL SCHEDULES
E201	OVERALL 2ND FLOOR RENOVATION PLAN
E211	ENLARGED 2ND FLOOR RENO LIGHTING PLAN
E21P	ENLARGED 2ND FLOOR EGRESS PHOTOMETRICS
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E501	EXISTING SINGLE LINE DIAGRAM
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ED101	OVERALL 2ND FLOOR DEMO LIGHTING PLAN
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ED103	ENLARGED 2ND FLOOR POWER DEMO PLAN
ED104	ENLARGED 2ND FLOOR AUXILIARY DEMO PLAN

**DSA NOTES**

**MEP COMPONENT ANCHORAGE NOTE:**  
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.24, 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

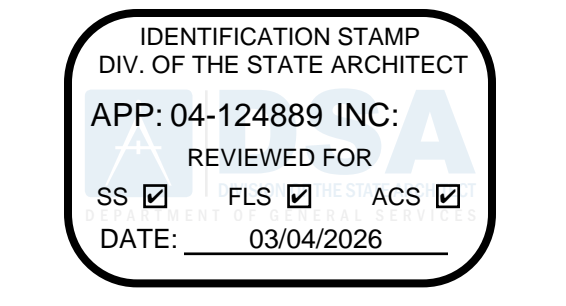
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:  
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHAT BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. QSHPD OPM FOR 2013 CBC OR LATER). COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

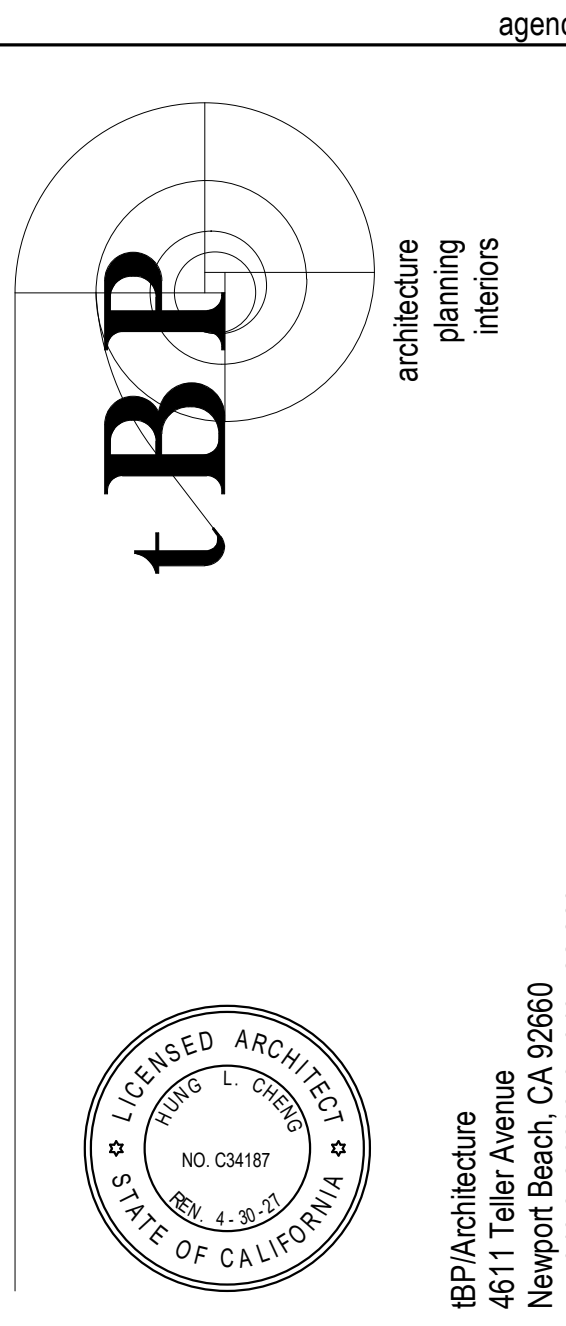
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP | MD | PP | E | x | OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

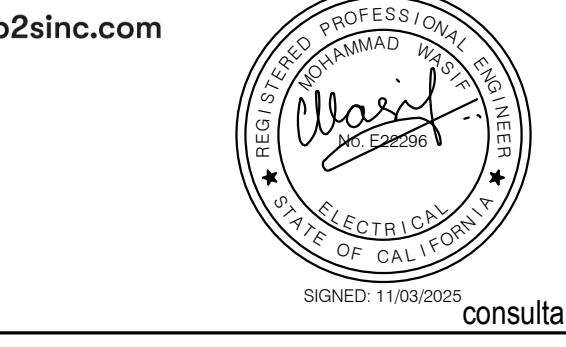
MP | MD | PP | E | | OPTION 2: SHALL COMPLY WITH HCAI (QSHPD) PREAPPROVAL (OPM #) # 0043 AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.



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NOTES, LEGENDS, ABBREV. & INDEX

drawing no.:

**E001**

### LIGHT FIXTURES SCHEDULE

IMAGE	TYPE	FIXTURE DESCRIPTION	MANUFACTURER & MODEL	TOTAL WATTS	LAMP TYPE	LUMENS	COLOR TEMP	CRI	VOLTAGE	MTG	NOTES
	C1	LED TAPELIGHT	JUNO LIGHTING: JFX 24V 200LM 100FT 40K 90CRI	60W	LED	200LM	40K	90	UNV	C	2, 3
	R1	RECESSED PANO 2'W 4'L	BASO LIGHTING: PANO2-VWVG-BL-PS-OP-40K-C9 0-UNV-XXXX-0425LF-ST-04FT	16 W	LED	425 LM/FT	4000 K	90	UNV	R	1
	R2	RECESSED EQUATION 2X2	FOCAL POINT: FEQ2-22-AC-2500L-40K-90CRI-C -UNV-LD1-ST-WH	24 W	LED	2500 LM	4000 K	90	UNV	R	
	R3	RECESSED 6" DOWNLIGHT	LITHONIA LIGHTING: LDN6 4015 LD6 WR LD TRW MVOLT GZ10	18 W	LED	1500 LM	4000 K	90	UNV	R	
	R4	RECESSED PANO 2'W 6'L	BASO LIGHTING: PANO2-VWVG-BL-PS-OP-40K-C9 0-UNV-XXXX-0425LF-ST-06FT	24 W	LED	425 LM/FT	4000 K	90	UNV	R	1
	S1	LED WALL MOUNTED SCONCE	EUREKA: LAP 3151 LED 40 120V DV CHR WHE	5 W	LED	185 LM	4000 K	90	120 V	W	
	X1	RECESSED LRP EXIT SIGN	LITHONIA LIGHTING: LRP W 2 GMR 120/277 EM	4 W	LED	-	-	-	UNV	R/P	

**GENERAL NOTES:**

- VERIFY ALL FIXTURES FINISHES WITH THE ARCHITECT PRIOR TO PURCHASE.
- FURNISH ALL LUMINAIRES COMPLETE WITH MOUNTING ACCESSORIES TO MEET JOB REQUIREMENTS. VERIFY MOUNTING WITH CEILING TYPES AND COORDINATE LUMINAIRE TRIM AND ACCESSORIES PRIOR TO ORDERING.
- VERIFY LOCATIONS AGAINST ARCHITECT'S PLANS, ELEVATIONS AND DETAIL DRAWINGS.
- ALL DIMMABLE DRIVERS SHALL BE COMPATIBLE WITH LAMPS AND DIMMERS.
- PROVIDE DRIVERS AND/OR TRANSFORMERS REQUIRED TO OPERATE ALL LAMPS SPECIFIED, INCLUDING REMOTE DRIVERS AND/OR TRANSFORMERS AND THE ENCLOSURES FOR THE SAME. VERIFY COMPATIBILITY BETWEEN LAMPS SPECIFIED, DRIVERS AND/OR TRANSFORMERS. NOTIFY ARCHITECT AND ENGINEER CONSULTANT OF ANY INCOMPATIBILITY PRIOR TO ORDERING EQUIPMENT.

**NOTES:**

- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS AND ADDITIONAL INFORMATION.
- PROVIDE JFX DRIVER CATALOG # JFXDRV MVOLT ZT 60W.
- PROVIDE 120V TO 24V POWER SUPPLY FOR FIELD INSTALLED RUN.

**ABBREVIATIONS:**

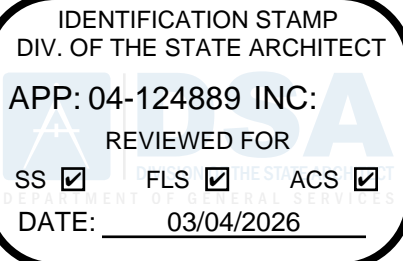
- P = PENDANT
- R = RECESSED
- S = SURFACE
- U = UNIVERSAL
- W = WALL
- C = COVE/SOFFIT

### LIGHTING RELAY CONTROL SCHEDULE

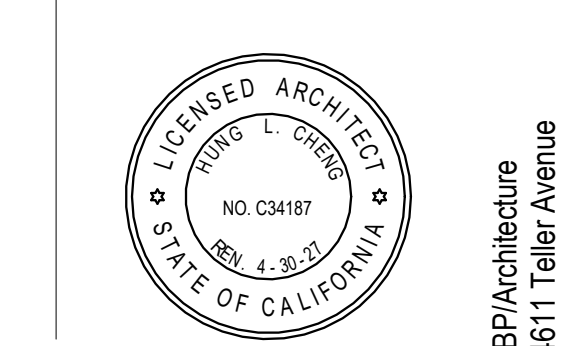
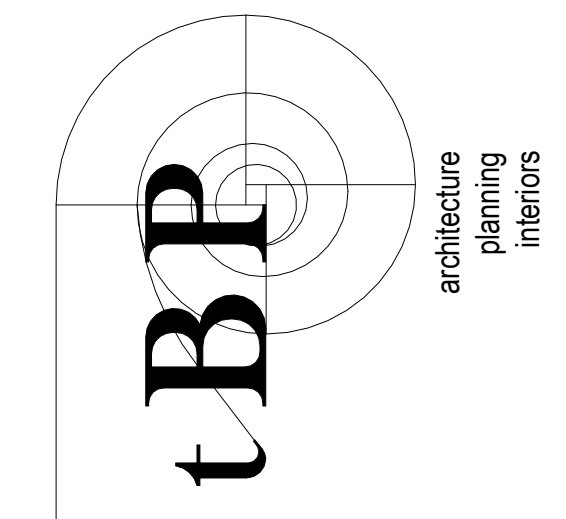
ID	ROOM NAME	SWITCH ID	OCC SENSOR	DAYLIGHTING ZONE	EMERGENCY RELAY	SWITCHING TYPE	PANEL	CIRCUIT	NOTES
201-1e	PRESIDENT	201 - e.f.g.h.j	Y	Y	N	DIMMING	LA2A	1	
201-1g	PRESIDENT	201 - e.f.g.h.j	Y	Y	N	DIMMING	LA2A	1	
201-1j	PRESIDENT	201 - e.f.g.h.j	Y	Y	N	DIMMING	LA2A	1	
201-5f	PRESIDENT	201 - e.f.g.h.j	Y	Y	Y	DIMMING	EMSS	5	
201-5h	PRESIDENT	201 - e.f.g.h.j	Y	Y	Y	DIMMING	EMSS	5	
202-1a	V.P.A.S	202 - a.b.c.d.e	Y	Y	N	DIMMING	LA2A	1	
202-1c	V.P.A.S	202 - a.b.c.d.e	Y	N	N	DIMMING	LA2A	1	
202-2e	V.P.A.S	202 - a.b.c.d.e	Y	Y	N	DIMMING	LA2A	1	
202-5b	V.P.A.S	202 - a.b.c.d.e	Y	Y	Y	DIMMING	EMSS	5	
202-5d	V.P.A.S	202 - a.b.c.d.e	Y	N	Y	DIMMING	EMSS	5	
203-1e	V.P.S.S	203 - e.f.g.h.j	Y	Y	N	DIMMING	LA2A	1	
203-1g	V.P.S.S	203 - e.f.g.h.j	Y	N	N	DIMMING	LA2A	1	
203-1j	V.P.S.S	203 - e.f.g.h.j	Y	Y	N	DIMMING	LA2A	1	
203-5f	V.P.S.S	203 - e.f.g.h.j	Y	Y	Y	DIMMING	EMSS	5	
203-5h	V.P.S.S	203 - e.f.g.h.j	Y	N	Y	DIMMING	EMSS	5	
204-1a	V.P.I	204 - a.b.c.d.e	Y	Y	N	DIMMING	LA2A	1	
204-1c	V.P.I	204 - a.b.c.d.e	Y	N	N	DIMMING	LA2A	1	
204-1e	V.P.I	204 - a.b.c.d.e	Y	Y	N	DIMMING	LA2A	1	
204-5b	V.P.I	204 - a.b.c.d.e	Y	Y	Y	DIMMING	EMSS	5	
204-5d	V.P.I	204 - a.b.c.d.e	Y	N	Y	DIMMING	EMSS	5	
205-3a	WAITING	205 - a.b.c	Y	N	N	DIMMING	LA2A	3	
205-3b	WAITING	205 - a.b.c	Y	N	Y	DIMMING	EMSS	5	
205-3c	WAITING	205 - a.b.c	Y	Y	N	DIMMING	LA2A	3	
207-2c	WORK ROOM	207 - c.d	Y	N	N	DIMMING	LA2A	2	
207-5d	WORK ROOM	207 - c.d	Y	N	Y	DIMMING	EMSS	5	
208-3b	CORRIDOR	208 - a.b.c.d	Y	N	Y	DIMMING	LA2A	3	
208-3c	CORRIDOR	208 - a.b.c.d	Y	Y	N	DIMMING	LA2A	3	
208-3d	CORRIDOR	208 - a.b.c.d	Y	Y	N	DIMMING	LA2A	3	
208-5a	CORRIDOR	208 - a.b.c.d	Y	N	N	DIMMING	EMSS	5	
209-2a	CONFERENCE	209 - a.b.c.d.e	Y	N	N	DIMMING	LA2A	2	
209-2c	CONFERENCE	209 - a.b.c.d.e	Y	Y	N	DIMMING	LA2A	2	
209-2d	CONFERENCE	209 - a.b.c.d.e	Y	Y	N	DIMMING	LA2A	2	
209-2f	CONFERENCE	209 - f.g.h	Y	Y	N	DIMMING	LA2A	2	
209-2g	CONFERENCE	209 - f.g.h	Y	Y	N	DIMMING	LA2A	2	
209-2h	CONFERENCE	209 - f.g.h	Y	Y	N	DIMMING	LA2A	2	
209-5b	CONFERENCE	209 - a.b.c.d.e	Y	N	Y	DIMMING	EMSS	5	
209-5e	CONFERENCE	209 - a.b.c.d.e	Y	Y	Y	DIMMING	EMSS	5	
210-2a	FOUNDATION DIRECTOR	210 - a.b	Y	Y	N	DIMMING	LA2A	2	
210-5b	FOUNDATION DIRECTOR	210 - a.b	Y	Y	Y	DIMMING	EMSS	5	
211-1d	OPEN OFFICE	211 - a.b.c.d.e	Y	Y	N	DIMMING	LA2A	1	
211-1e	OPEN OFFICE	211 - a.b.c.d.e	Y	Y	N	DIMMING	LA2A	1	
211-3g	OPEN OFFICE	211 - f.g.h.j.k	Y	Y	N	DIMMING	LA2A	3	
211-3h	OPEN OFFICE	211 - f.g.h.j.k	Y	Y	N	DIMMING	LA2A	3	
211-3j	OPEN OFFICE	211 - f.g.h.j.k	Y	Y	N	DIMMING	LA2A	3	
211-3k	OPEN OFFICE	211 - f.g.h.j.k	Y	Y	N	DIMMING	LA2A	3	
211-3m	OPEN OFFICE	211 - m.n.p	Y	N	N	DIMMING	LA2A	3	
211-3n	OPEN OFFICE	211 - m.n.p	Y	Y	Y	DIMMING	EMSS	5	
211-3p	OPEN OFFICE	211 - m.n.p	Y	Y	N	DIMMING	LA2A	3	
211-5b	OPEN OFFICE	211 - a.b.c.d.e	Y	N	Y	DIMMING	EMSS	5	
211-5c	OPEN OFFICE	211 - a.b.c.d.e	Y	N	Y	DIMMING	EMSS	5	
211-5f	OPEN OFFICE	211 - f.g.h.j.k	Y	Y	Y	DIMMING	EMSS	5	
212-2e	OFFICE	212 - e.f.g.h.j	Y	N	N	DIMMING	LA2A	2	
212-2e	OFFICE	212 - e.f.g.h.j	Y	N	N	DIMMING	LA2A	2	
212-2g	OFFICE	212 - e.f.g.h.j	Y	Y	N	DIMMING	LA2A	2	
212-5f	OFFICE	212 - e.f.g.h.j	Y	N	Y	DIMMING	EMSS	5	
212-5h	OFFICE	212 - e.f.g.h.j	Y	Y	Y	DIMMING	EMSS	5	

**GENERAL NOTES**

- REFER TO SHEET SHEET E211 FOR LIGHTING RENOVATION PLANS.
- REFER TO SHEET E211 FOR LIGHTING DEMOLITION PLANS.



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tBTP project number: tBP No: 21182.00

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drawing title:

SCHEDULES

drawing no.:

E002

**PANEL: LA2A**  
 LOCATION: (E) IDF 2050 VOLTAGE/PHASE: 120/208 WYE,3PH,4W FED FROM: DBA2  
 FLOOR: 2ND FLR BUS AMPS: 225 A RATING: EXISTING  
 MOUNTING: SURFACE MAIN BREAKER: 225 A

CKT	TYPE	LOAD	BKR/POLE	A	B	C	A	B	C	BKR/POLE	LOAD	TYPE	CKT
1	L; P	(R)LTG RM. 201, 202, 203, 204, 211	20 A 1	751 VA			925 VA			1 20 A	(R)LTG RM. 207, 209, 210, 212	L; P	2
3	L; P	(R)LTG RM. 205, 208, 211, 2049, 204	20 A 1	928 VA			1152 VA			1 20 A	(E)LTG RM. 2450, 2400, 2401		4
5	--	(E)LTG RM. ELEC 2050	20 A 1			370 VA			1408 VA	1 20 A	(E)LTG RM. 2220, 2219, 2218, 2217		6
7	--	(E)LTG RM. 2059	20 A 1	1137 VA			0 VA			1 20 A	(E)SPARE		8
9	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		10
11	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		12
13	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		14
15	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		16
17	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		18
19	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		20
21	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		22
23	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		24
25	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		26
27	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		28
29	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		30
31	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		32
33	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		34
35	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		36
37	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		38
39	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		40
41	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		42

LOAD TYPE KEY:  
 N=NON CONTINUOUS M=MECH EQUIP TOTAL A: 2813 VA 24 A  
 P=POWER R=RECEPTACLE TOTAL B: 2078 VA 18 A  
 L=LIGHTING K=KITCHEN TOTAL C: 1778 VA 15 A

LOAD TYPE	CONNECTED	DEMAND FACTOR	ESTIMATED	PANEL TOTALS
L	2602 VA	125.00%	3252 VA	
P	0 VA	0.00%	0 VA	
				TOTAL CONNECTED LOAD: 6669 VA 19 A
				TOTAL DEMAND LOAD: 7319 VA 20 A

**LOAD SUMMARY: (E)PNL 'LA2A'**

AS-BUILTS (07/20/2015) = 7.93 KVA

& SITE OBSERVATIONS

REMOVED LOAD = 3.85 KVA  
 (E) LTGS CB 1 = 1.92 KVA  
 (E) LTGS CB 2 = 1.24 KVA  
 (E) LTGS CB 3 = 1.39 KVA

ADDED LOAD = 2.59 KVA  
 (R) LTGS CB 1 = 0.75 KVA  
 (R) LTGS CB 2 = 0.92 KVA  
 (R) LTGS CB 3 = 0.92 KVA

TOTAL LOAD = 6.67 KVA  
 NET LOAD = -1.26 A  
 TOTAL LOAD (A) = 19 A  
 MAIN BUS RATING = 225 A

**INVERTER: EMSS**  
 LOCATION: (E) ELEC 2051 VOLTAGE/PHASE: 120/208 WYE,3PH,4W FED FROM: LA1A  
 FLOOR: 1ST FLR BUS AMPS: 50 A RATING: EXISTING  
 MOUNTING: SURFACE MAIN BREAKER: 50 A

CKT	TYPE	LOAD	BKR/POLE	A	B	C	A	B	C	BKR/POLE	LOAD	TYPE	CKT
1	--	(E)LTG RM. 1501U, 1501, 1501U...	20 A 1	681 VA			898 VA			1 20 A	(E)LTG RM. 1500, 1501D, 1501S, 1401...		2
3	--	(E)LTG RM. 1000, 1350, 1351, 1301...	20 A 1	692 VA			1701 VA			1 20 A	(E)LTG RM. 1252, 1250, 1200, 1201B...		4
5	L; P	(R)LTG RM. 201, 202, 203, 204, 211...	20 A 1	756 VA			727 VA			1 20 A	(E)LTG RM. 2050, 2041, 2450, 2059...		6
7	--	(E)LTG RM. 2059, 2090, 2010, 2002	20 A 1	746 VA			750 VA			1 20 A	(E)LTG RM. 2162		8
9	--	(E)LTG RM. 2302, 2203M, 2203J, 2201	20 A 1	739 VA			670 VA			1 20 A	(E)LTG PRGRM SPEC. 2101A		10
11	--	(E)LTG EXTERIOR	20 A 1	96 VA			378 VA			1 20 A	(E)LTG EXTERIOR DOWN LTGS		12
13	--	(E)LTG EXTERIOR POST TOP...	20 A 1	420 VA			0 VA			1 20 A	(E)SPARE		14
15	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		16
17	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		18
19	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		20
21	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		22
23	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		24
25	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		26
27	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		28
29	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		30

LOAD TYPE KEY:  
 N=NON CONTINUOUS M=MECH EQUIP TOTAL A: 3495 VA 31 A  
 P=POWER R=RECEPTACLE TOTAL B: 3802 VA 34 A  
 L=LIGHTING K=KITCHEN TOTAL C: 1957 VA 16 A

LOAD TYPE	CONNECTED	DEMAND FACTOR	ESTIMATED	PANEL TOTALS
L	758 VA	125.00%	945 VA	
P	0 VA	0.00%	0 VA	
				TOTAL CONNECTED LOAD: 9254 VA 26 A
				TOTAL DEMAND LOAD: 9443 VA 26 A

**LOAD SUMMARY: (E)INVERTER 'EMSS'**

AS-BUILTS (07/20/2015) = 9.73 KVA

& SITE OBSERVATIONS

REMOVED LOAD = 0.82 KVA  
 (E) LTGS CB 5 = 0.82 KVA

ADDED LOAD = 0.75 KVA  
 (R) LTGS CB 5 = 0.75 KVA

TOTAL LOAD = 9.66 KVA  
 NET LOAD = -0.07 A  
 TOTAL LOAD (A) = 27 A  
 MAIN BUS RATING = 225 A

**PANEL: MA2A**  
 LOCATION: (E) IDF 2050 VOLTAGE/PHASE: 120/208 WYE,3PH,4W FED FROM: DBA2  
 FLOOR: 2ND FLR BUS AMPS: 225 A RATING: EXISTING  
 MOUNTING: SURFACE MAIN BREAKER: 225 A

CKT	TYPE	LOAD	BKR/POLE	A	B	C	A	B	C	BKR/POLE	LOAD	TYPE	CKT
1	--	(E)MOTOR CU-1	20 A 2	1872 VA			1872 VA			2 20 A	(E)MOTOR CU-2		2
3	--	(E)MOTOR CU-6	20 A 2	1872 VA			1872 VA			2 20 A	(E)MOTOR CU-7		4
5	--	(E)MOTOR CU-6	20 A 2	1352 VA			1352 VA			2 20 A	(E)MOTOR CU-7		6
7	--	(E)MOTOR EF-1	20 A 2	912 VA			600 VA			1 20 A	(R)VAV BOXES	P	10
11	--	(E)MOTOR EF-1	20 A 2	912 VA			500 VA			1 20 A	(R)VAV BOXES	P	12
13	--	REC AHU-2	20 A 1	360 VA			0 VA			1 20 A	(E)SPARE		14
15	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		16
17	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		18
19	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		20
21	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		22
23	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		24
25	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		26
27	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		28
29	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		30
31	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		32
33	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		34
35	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		36
37	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		38
39	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		40
41	--	(E)SPACE	-- 1 --	--	--	--	--	--	--	1 --	(E)SPACE		42

LOAD TYPE KEY:  
 N=NON CONTINUOUS M=MECH EQUIP TOTAL A: 6808 VA 58 A  
 P=POWER R=RECEPTACLE TOTAL B: 3256 VA 45 A  
 L=LIGHTING K=KITCHEN TOTAL C: 4116 VA 34 A

LOAD TYPE	CONNECTED	DEMAND FACTOR	ESTIMATED	PANEL TOTALS
P	1100 VA	100.00%	1100 VA	
				TOTAL CONNECTED LOAD: 16180 VA 45 A
				TOTAL DEMAND LOAD: 16180 VA 45 A

**LOAD SUMMARY: (E)PNL 'MA2A'**

AS-BUILTS (07/20/2015) = 15.98 KVA

& SITE OBSERVATIONS

REMOVED LOAD = 0.60 KVA  
 (E) VAV CB 10 = 0.30 KVA  
 (E) VAV CB 12 = 0.30 KVA

ADDED LOAD = 0.80 KVA  
 (R) VAV CB 10 = 0.40 KVA  
 (R) VAV CB 12 = 0.40 KVA

TOTAL LOAD = 16.18 KVA  
 NET LOAD = 0.20 A  
 TOTAL LOAD (A) = 45 A  
 MAIN BUS RATING = 225 A

**PANEL: PA2A**  
 LOCATION: (E) IDF 2050 VOLTAGE/PHASE: 120/208 WYE,3PH,4W FED FROM: DBA2  
 FLOOR: 2ND FLR BUS AMPS: 225 A RATING: EXISTING  
 MOUNTING: SURFACE MAIN BREAKER: 225 A

CKT	TYPE	LOAD	BKR/POLE	A	B	C	A	B	C	BKR/POLE	LOAD	TYPE	CKT
1	R	(R)REC RM. 201	20 A 1	540 VA			500 VA			1 20 A	(R)TV RM. 201	R	2
3	R	(R)REC RM. 202	20 A 1	720 VA			900 VA			1 20 A	(R)REC RM. 201	L; R	4
5	R	(R)TV RM. 202	20 A 1			500 VA			540 VA	1 20 A	(R)REC RM. 202	L; R	6
7	R	(R)REC RM. 203	20 A 1	720 VA			540 VA			1 20 A	(R)REC RM. 203	L; R	8
9	R	(R)REC RM. 204	20 A 1	720 VA			500 VA			1 20 A	(R)TV RM. 203	R	10
11	R	(R)TV RM. 204	20 A 1			500 VA			540 VA	1 20 A	(R)REC RM. 204	L; R	12
13	L; R	(R) REC RM. 211	20 A 1	900 VA			720 VA			1 20 A	(R) REC RM. 211	L; R	14
15	R	(R) FURNITURE RM. 211	20 A 1			1080 VA			1080 VA	1 20 A	(R) FURNITURE RM. 211	R	16
17	R	(R) FURNITURE RM. 211	20 A 1			1080 VA			1080 VA	1 20 A	(R) FURNITURE RM. 211	R	18
19	R	(R) REC RM. 210	20 A 1	540 VA			720 VA			1 20 A	(R) REC RM. 211	L; R	20
21	R	(R)TV RM. 210	20 A 1			500 VA			540 VA	1 20 A	(R) REC RM. 210	L; R	22
23	--	(R)SPARE	20 A 1	0 VA			0 VA			1 20 A	(R)SPARE		24
25	--	(R)SPARE	20 A 1	0 VA			0 VA			1 20 A	(R)SPARE		26
27	--	(R)SPARE	20 A 1	0 VA			0 VA			1 20 A	(R)SPARE		28
29	--	(R)SPARE	20 A 1	0 VA			0 VA			1 20 A	(R)SPARE		30
31	--	(E)MOTOR OPERABLE...	20 A 1	1000 VA			0 VA			1 20 A	(E)SPARE		32
33	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		34
35	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		36
37	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		38
39	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		40
41	--	(E)SPARE	20 A 1	0 VA			0 VA			1 20 A	(E)SPARE		42

LOAD TYPE KEY:  
 N=NON CONTINUOUS M=MECH EQUIP TOTAL A: 6180 VA 54 A  
 P=POWER R=RECEPTACLE TOTAL B: 6040 VA 53 A  
 L=LIGHTING K=KITCHEN TOTAL C: 4240 VA 35 A

LOAD TYPE	CONNECTED	DEMAND FACTOR	ESTIMATED	PANEL TOTALS
L	0 VA	0.00%	0 VA	
R	15460 VA	82.34%	12730 VA	
				TOTAL CONNECTED LOAD: 16480 VA 46 A
				TOTAL DEMAND LOAD: 13730 VA 38 A

**LOAD SUMMARY: (E)PNL 'PA2A'**

AS-BUILTS (07/20/2015) = 49.3 KVA

& SITE OBSERVATIONS

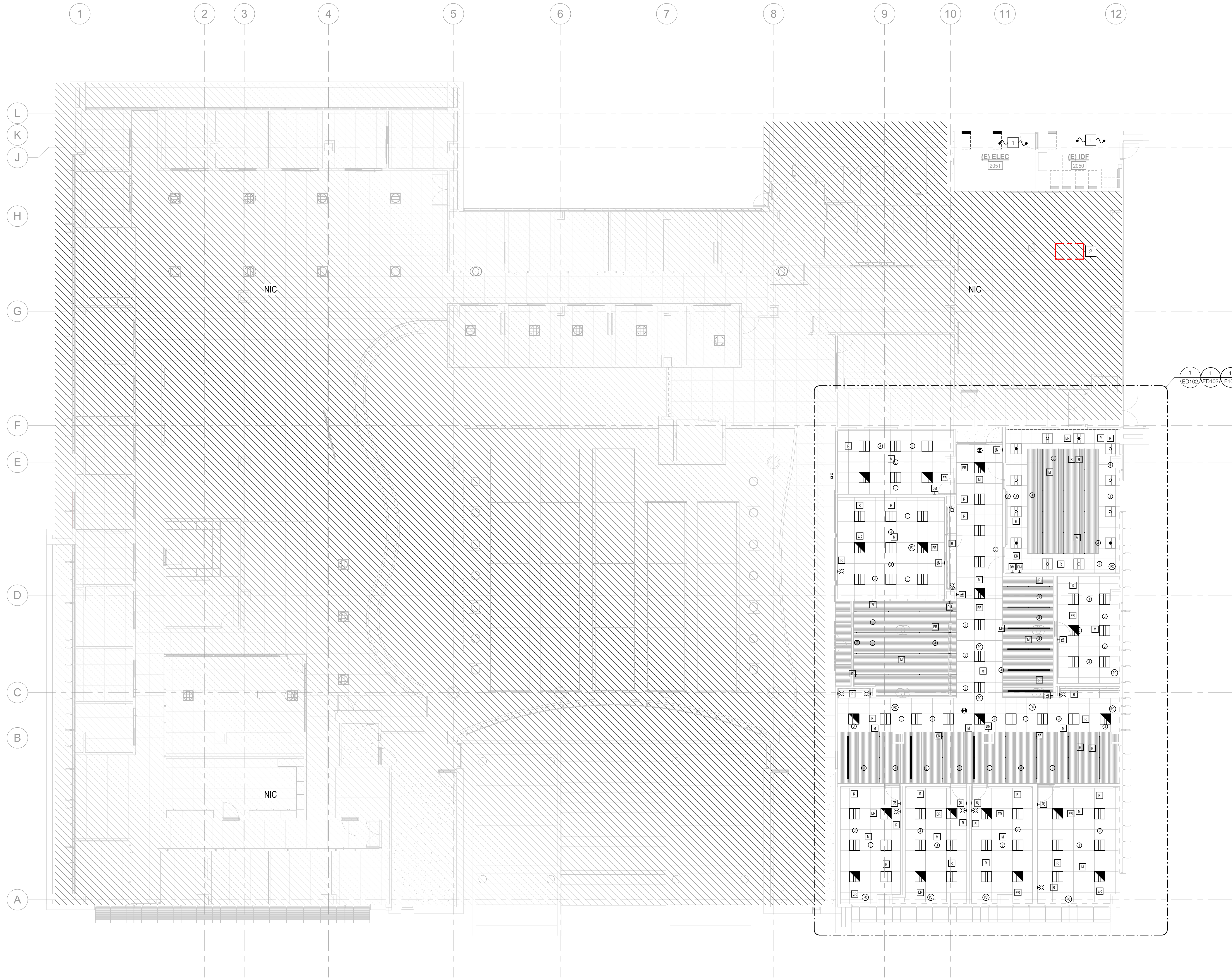
REMOVED LOAD = 48.30 KVA  
 (E) REC & MOTOR CB 1-30 = 48.30 KVA

ADDED LOAD = 17.08 KVA  
 (R) REC TV, & FURNITURE CB 1-22 = 17.08 KVA

TOTAL LOAD = 18.08 KVA  
 NET LOAD = -31.22 A  
 TOTAL LOAD (A) = 50 A  
 MAIN BUS RATING = 225 A

**PANEL: PA2B**  
 LOCATION: (E) IDF 2050 VOLTAGE/PHASE: 120/208 WYE,3PH,4W FED FROM: DBA2  
 FLOOR: 2ND FLR BUS AMPS: 225 A RATING: EXISTING  
 MOUNTING: SURFACE MAIN BREAKER: 225 A

CKT	TYPE	LOAD	BKR/POLE	A	B	C	A	B	C	BKR/POLE	LOAD	TYPE	CKT
1	R	(R)REC RM. 206 & 208	20 A 1	720 VA			900 VA			1 20 A	(R)REC RM. 207	L; R	2
3	R	(R)REC RM. 207	20 A 1	720 VA			1080 VA			1 20 A	(R)REC RM. 206	R	4
5	L; R	(R) REC RM. 206	20 A 1			360 VA			1080 VA	1 20 A	(R)FURNITURE RM. 206	R	6
7	L; R	(R)REC RM. 209	20 A 1	720 VA			360 VA			1 20 A	(R)REC RM. 209	L; R	8
9	--	(R)REC RM. 2059	20 A 1			540 VA			720 VA	1 20 A	(R)REC RM. 209	R	10
11	--	(R)REC RM. 2059	20 A 1			720 VA			1080 VA	1 20 A	(R)TV RM. 209	R	12
13	--	(R)REC RM. 2059	20 A 1	720 VA			540 VA			1 20 A	(R)REC RM. 2016, 1301I		14
15	--	(R)REC RM. 2059	20 A 1	720 VA			720 VA						

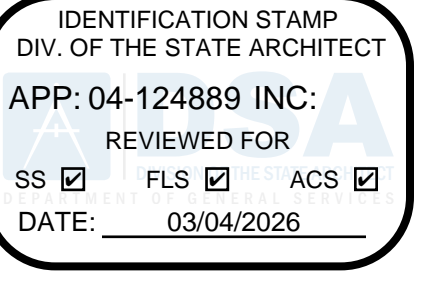


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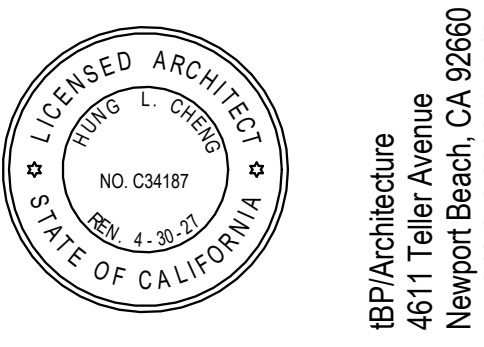
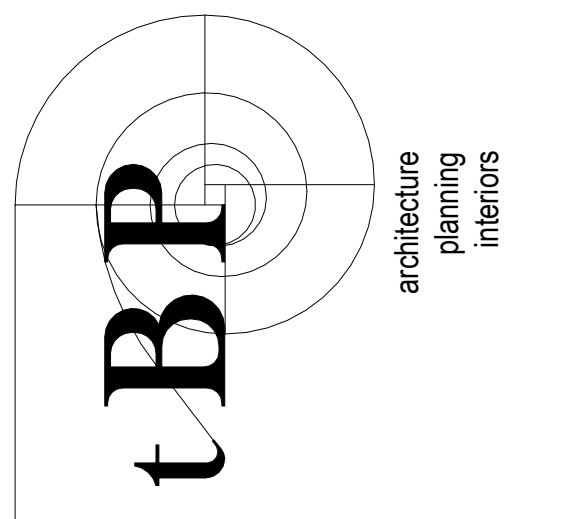
- 1 PROTECT AND RETAIN EXISTING PANELS AND ELECTRICAL EQUIPMENT.
- 2 PROTECT AND RETAIN EXISTING EMERGENCY LIGHTING CENTRAL BATTERY INVERTER EMIMS LOCATED IN ROOM BDF-1061 ON FIRST FLOOR BELOW ROOM IDF-2050.

**GENERAL NOTES**

- 1. REFER TO SHEET E201 AND E301 FOR RENOVATION PLANS.



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tBTP project number: tBP No: 21182.00

file name:

drawn by: K Nickels checked by: M Lindarto

date: 10/06/2025 1:26:2025 11:08:07 AM

rev. date: description:

10/06/25 50% CD

10/27/25 100% CD

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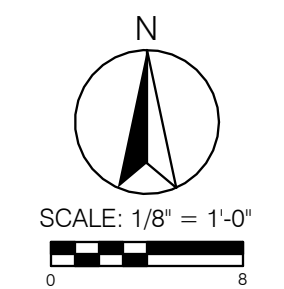
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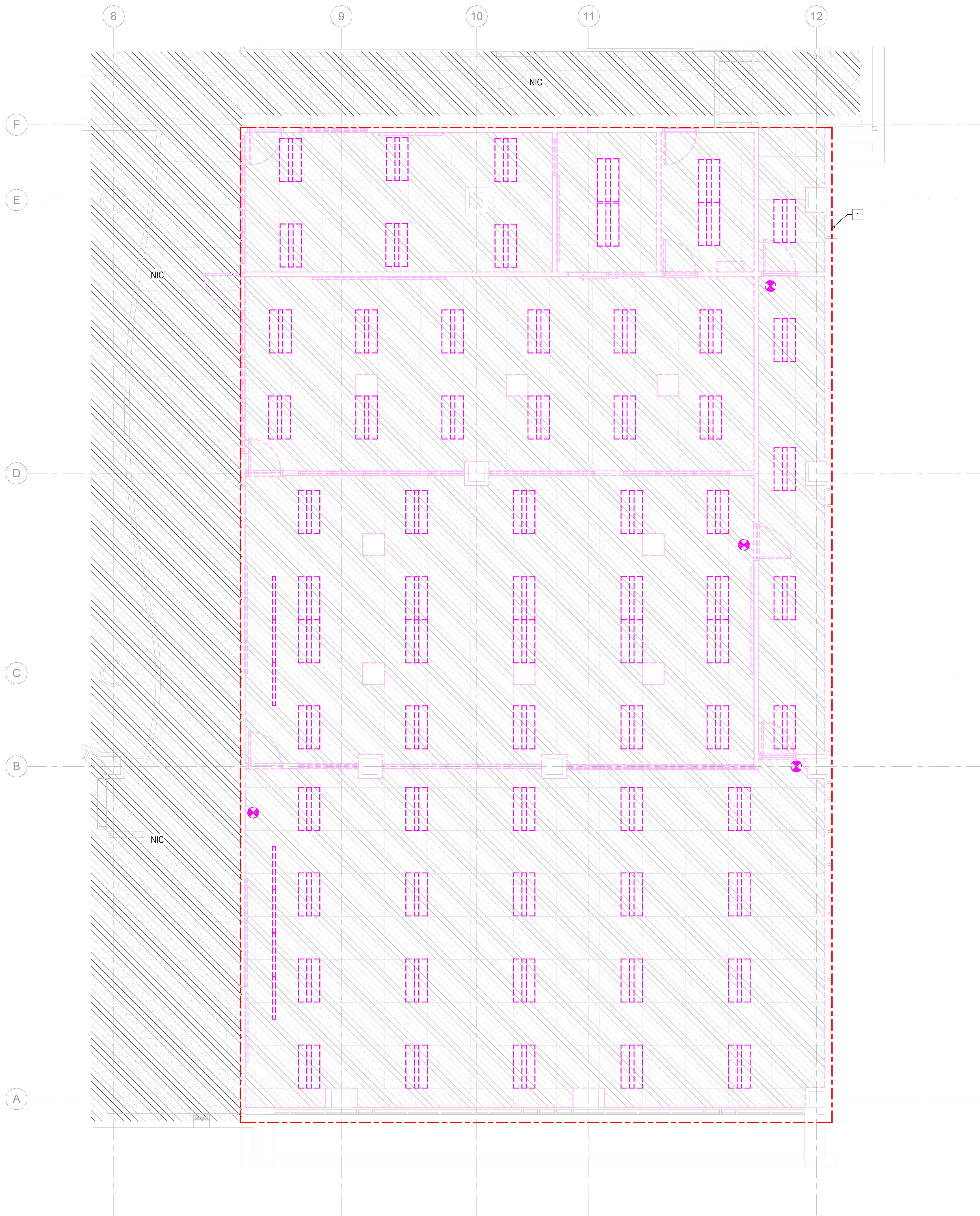
drawing title:

**OVERALL 2ND FLOOR  
DEMOLITION PLAN**

drawing no.:

**ED101**



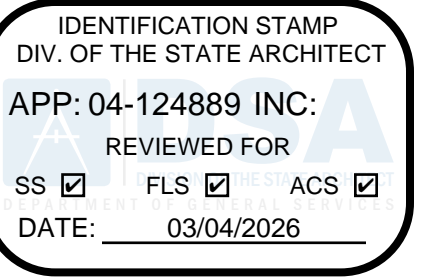


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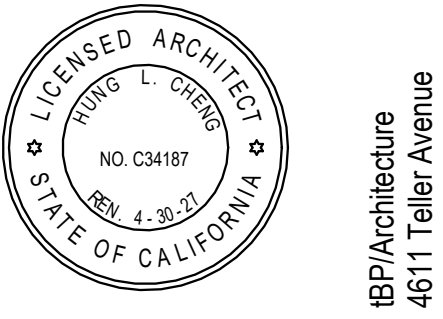
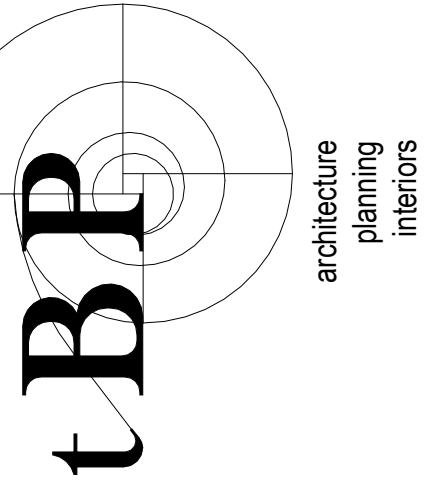
- 1 REMOVE EXISTING LIGHT FIXTURES AND ASSOCIATED DEVICES. REMOVE CONDUIT AND CONDUCTORS BACK TO THE NEAREST EXISTING OR NEW JUNCTION BOX, AND EXTEND IN-KIND TO SERVE NEW LIGHT FIXTURES AS INDICATED ON RENOVATION LIGHTING PLAN E211.

**GENERAL NOTES**

- 1. REFER TO SHEET E201 AND E211 FOR RENOVATION PLANS.
- 2. PCB-CONTAINING MATERIALS MAY BE PRESENT IN EXISTING ELECTRICAL EQUIPMENT. THE ENGINEER HAS NOT PERFORMED HAZARDOUS MATERIALS TESTING. CONTRACTOR SHALL IDENTIFY, HANDLE, REMOVE, AND DISPOSE OF PCB-CONTAINING MATERIALS IN ACCORDANCE WITH ALL APPLICABLE EPA AND CALIFORNIA DTSC REQUIREMENTS.



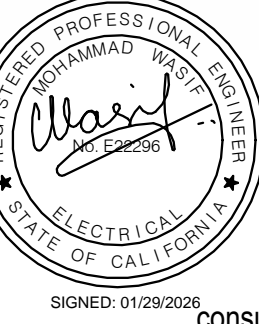
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drawn by: K Nickels checked by: M Lindarto

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rev. date: description:

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10/27/25 100% CD

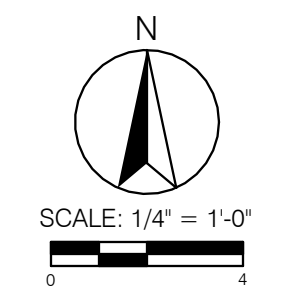
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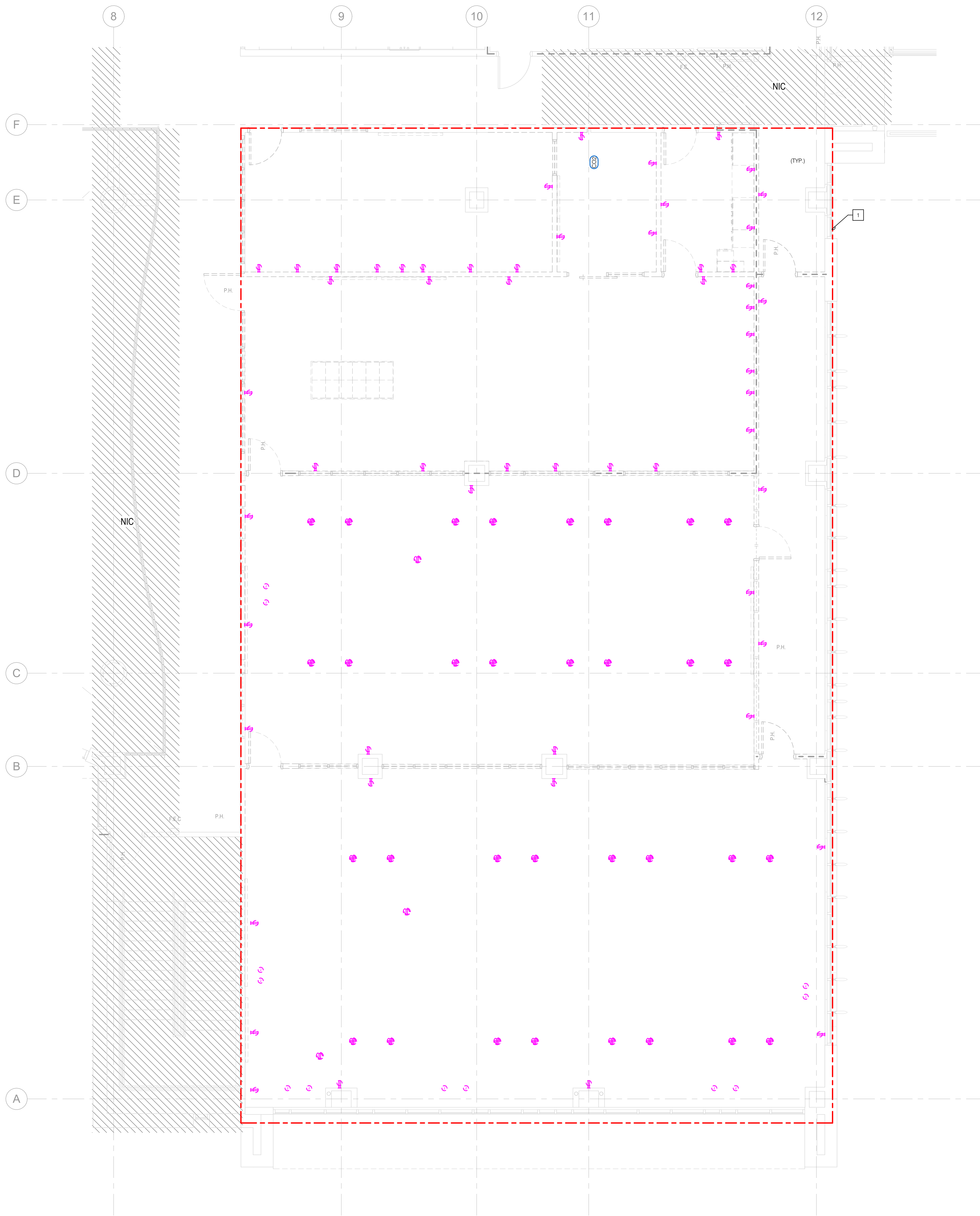
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drawing title:  
**ENLARGED 2ND FLOOR  
DEMO LIGHTING PLAN**

drawing no.:

**ED102**



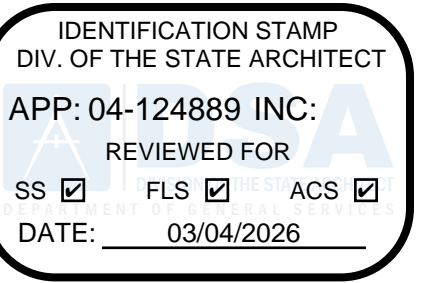


**NOTES**

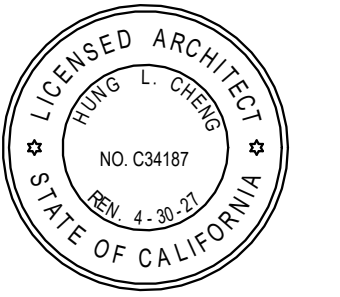
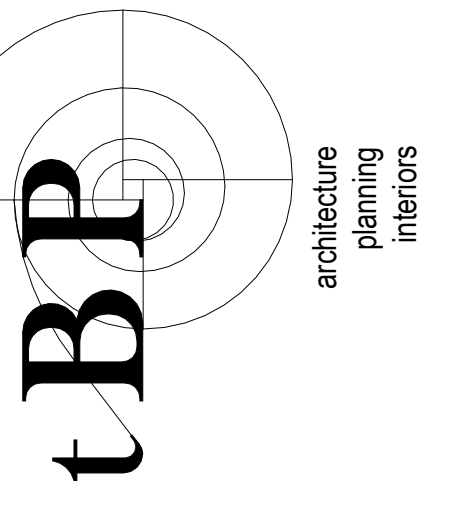
- 1 REMOVE RECEPTACLES AND ASSOCIATED DEVICES. REMOVE CONDUIT AND CONDUCTORS BACK TO THE NEAREST EXISTING OR NEW JUNCTION BOX, AND EXTEND IN-KIND TO SERVE NEW DEVICES AS INDICATED ON RENOVATION POWER PLAN E221.

**GENERAL NOTES**

- 1. REFER TO SHEET E201 AND E221 FOR RENOVATION PLANS.
- 2. REFER TO SHEET TECHNOLOGY SHEETS FOR ADDITIONAL DEMOLISH INFORMATION OF FLOOR MOUNTED DEVICES.
- 3. PCB-CONTAINING MATERIALS MAY BE PRESENT IN EXISTING ELECTRICAL EQUIPMENT. THE ENGINEER HAS NOT PERFORMED HAZARDOUS MATERIALS TESTING. CONTRACTOR SHALL IDENTIFY, HANDLE, REMOVE, AND DISPOSE OF PCB-CONTAINING MATERIALS IN ACCORDANCE WITH ALL APPLICABLE EPA AND CALIFORNIA DTSC REQUIREMENTS.



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file name:

drawn by: K Nickels checked by: M Lindarto

date: 10/06/2025 1:26:2025 11:08:03 AM

rev. date: description:

10/06/25 50% CD

10/27/25 100% CD

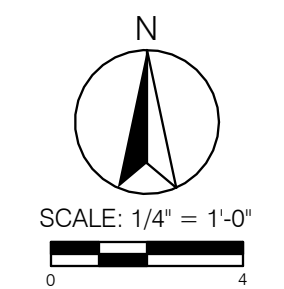
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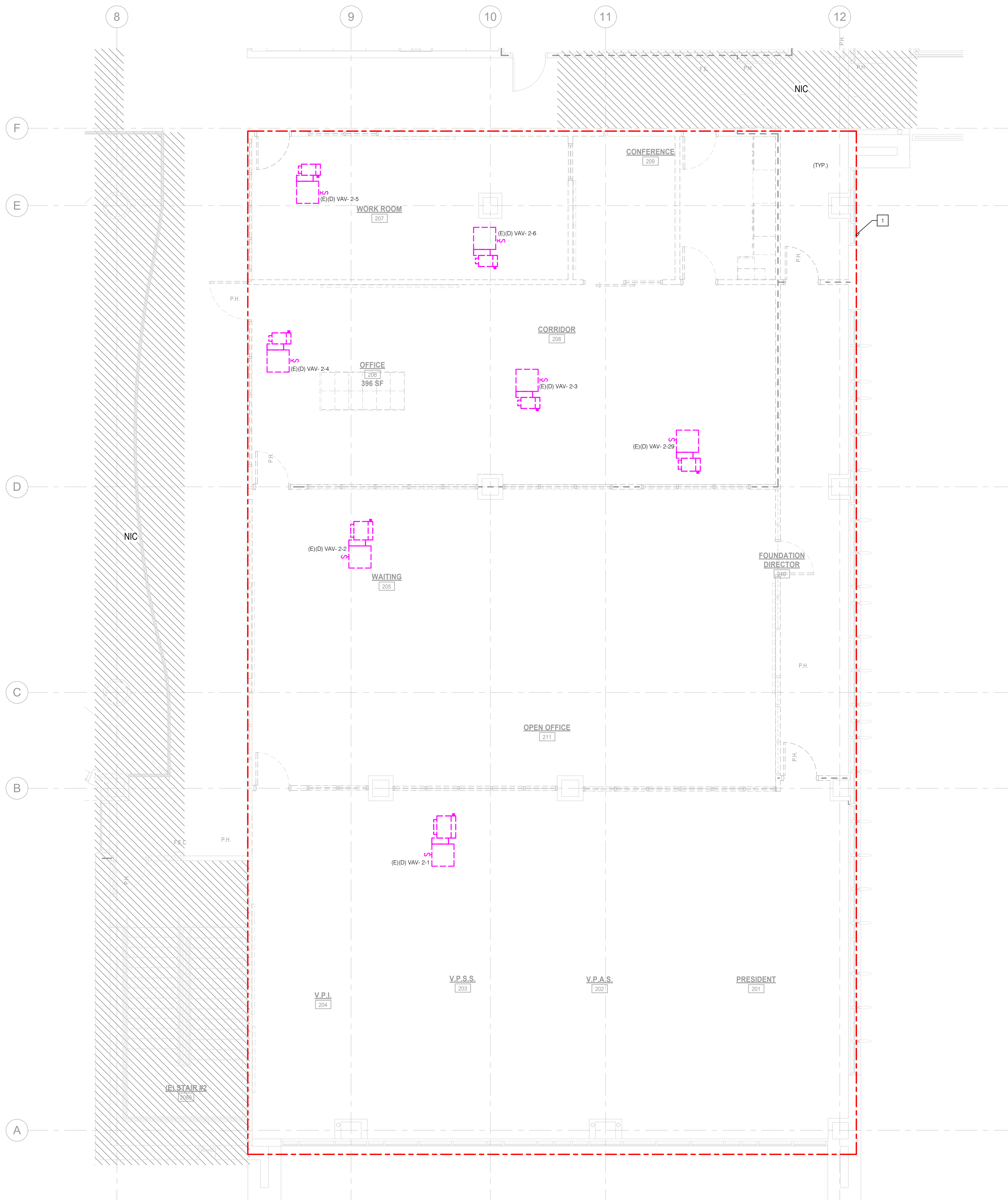
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drawing title:  
**ENLARGED 2ND FLOOR  
POWER DEMO PLAN**

drawing no.:

**ED103**



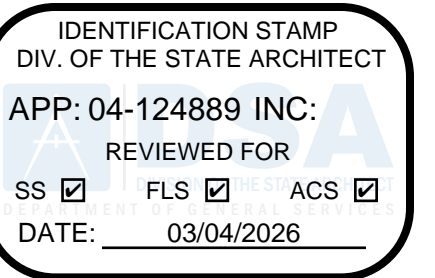


**NOTES**

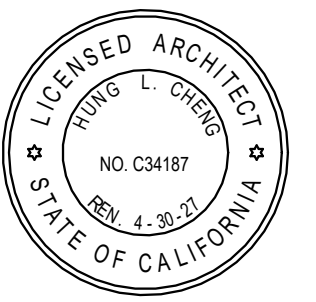
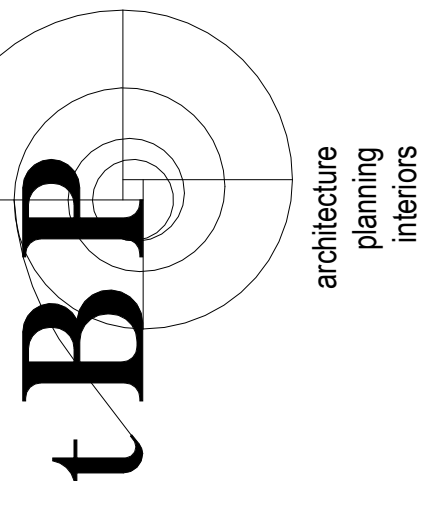
- REMOVE EXISTING SINGLE POLE MOTOR RATED TOGGLE SWITCHES SERVING EXISTING VAV'S SHOWN ON DEMOLITION FLOOR PLAN. REMOVE CONDUIT AND CONDUCTORS BACK TO THE NEAREST EXISTING OR NEW JUNCTION BOX, AND EXTEND IN KIND TO SERVE NEW VAV BOXES AS INDICATED ON RENOVATION AUXILIARY PLANS ON SHEET E231. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.

**GENERAL NOTES**

- REFER TO SHEET E201 AND E231 FOR RENOVATION PLANS.
- PCB-CONTAINING MATERIALS MAY BE PRESENT IN EXISTING ELECTRICAL EQUIPMENT. THE ENGINEER HAS NOT PERFORMED HAZARDOUS MATERIALS TESTING. CONTRACTOR SHALL IDENTIFY, HANDLE, REMOVE, AND DISPOSE OF PCB-CONTAINING MATERIALS IN ACCORDANCE WITH ALL APPLICABLE EPA AND CALIFORNIA DTSC REQUIREMENTS.



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drawn by: K Nickels checked by: M Lindarto

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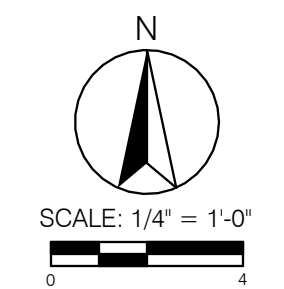
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drawing title:  
**ENLARGED 2ND FLOOR  
AUXILIARY DEMO PLAN**

drawing no.:

**ED104**

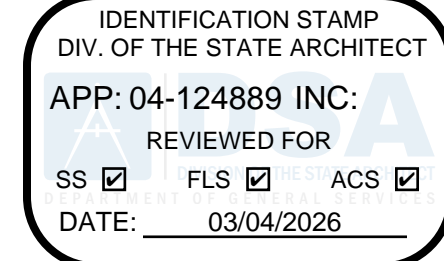
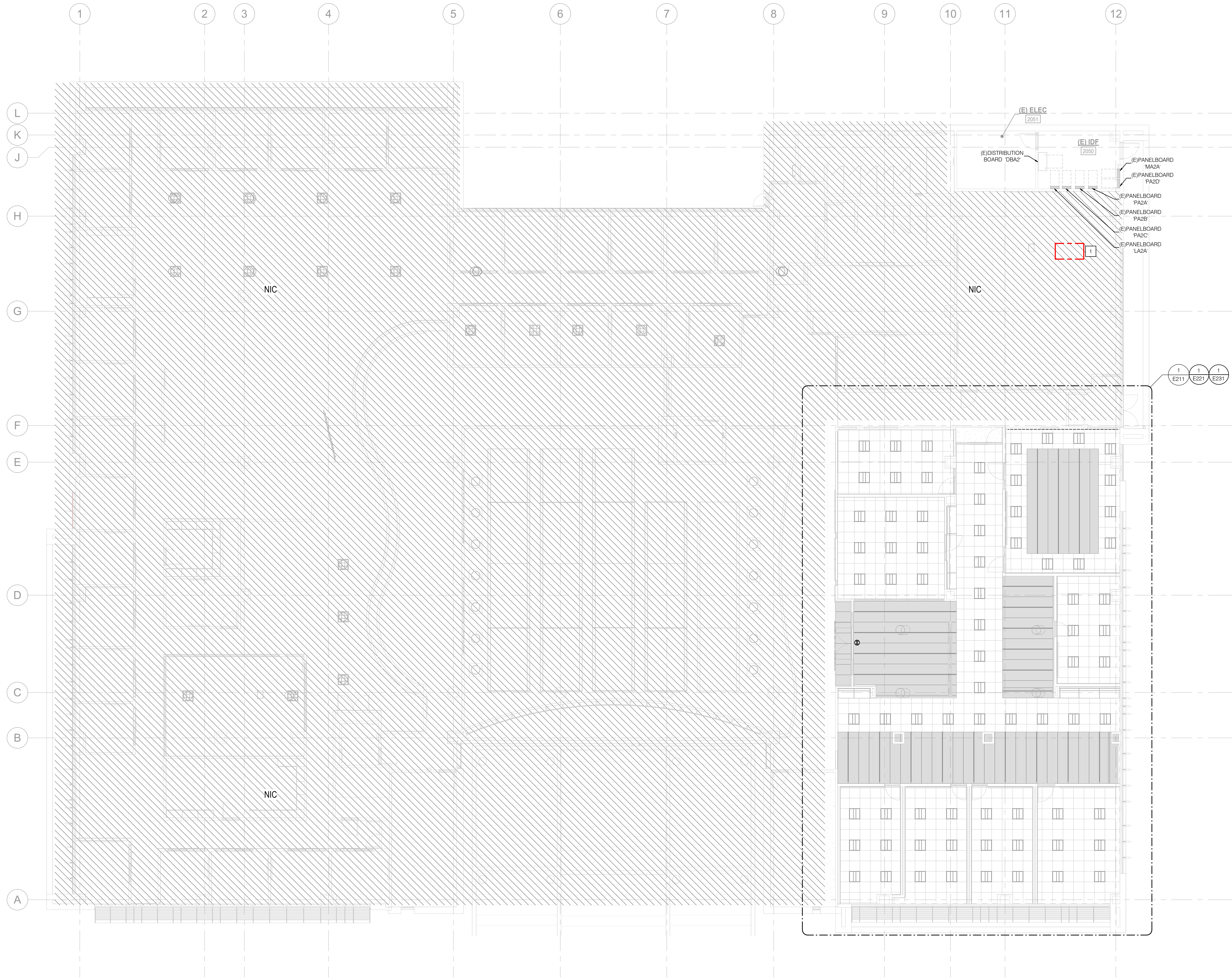


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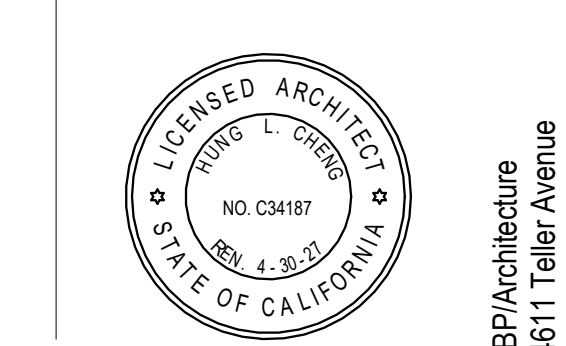
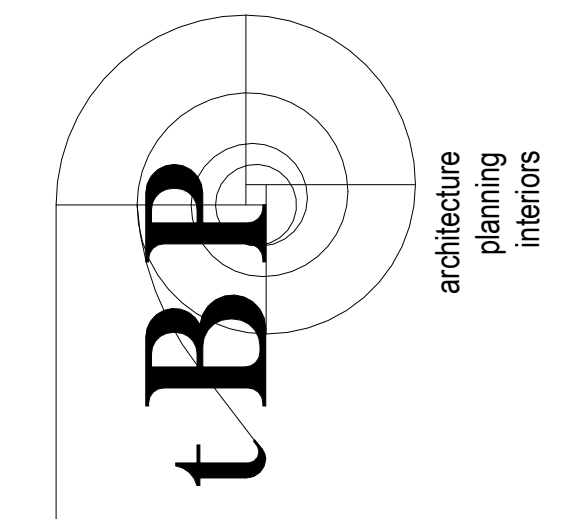
- 1 EXISTING EMERGENCY LIGHTING CENTRAL BATTERY INVERTER EMMS LOCATED IN ROOM BDF 1061 ON FIRST FLOOR BELOW ROOM IDF 2050.

GENERAL NOTES

- 1. REFER TO SHEETS E201 FOR DEMOLITION PLANS AND ADDITIONAL INFORMATION.



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tBTP project number: tBP No: 21182.00

file name:

drawn by: K Nickels checked by: M Lindarto

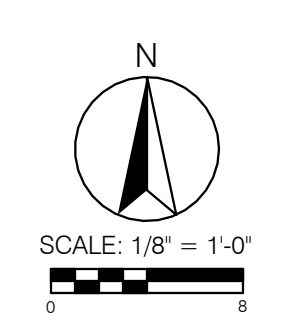
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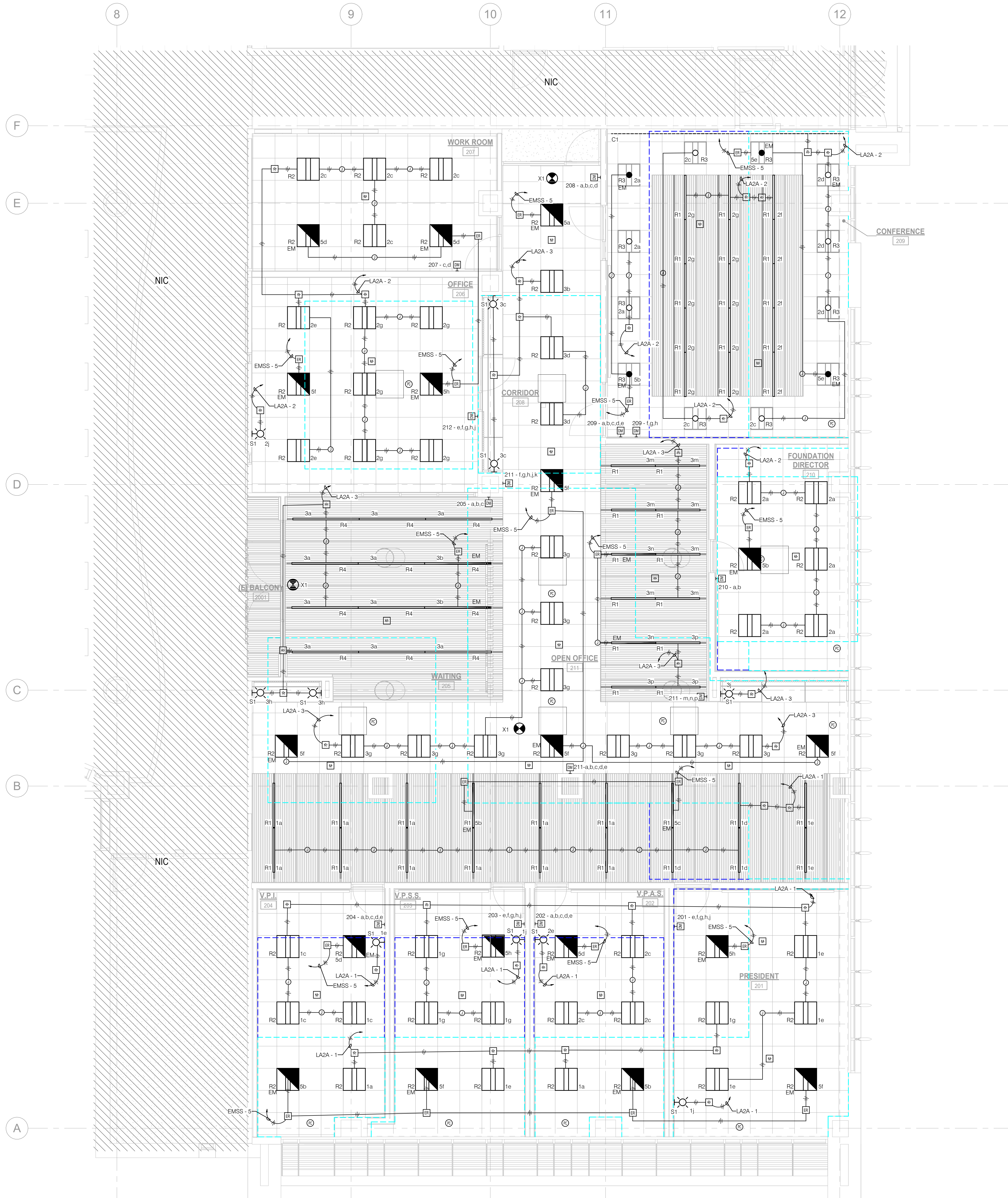
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2	10/27/25	100% CD
3	11/03/25	DSA SUBMITTAL

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drawing title:  
**OVERALL 2ND FLOOR  
RENOVATION PLAN**

drawing no.:  
**E201**

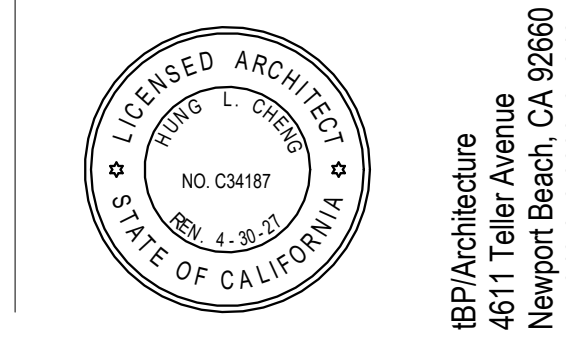
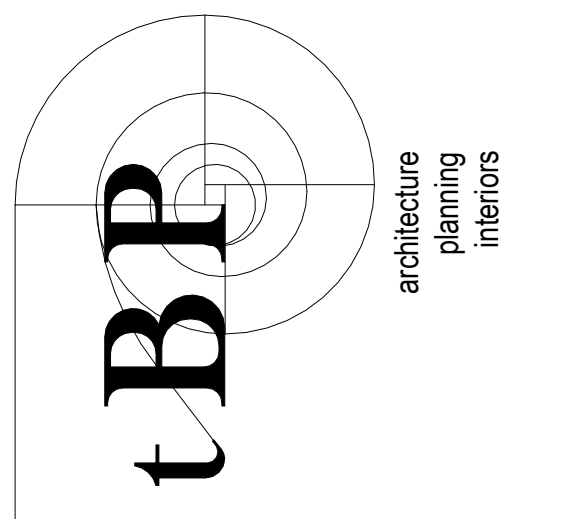




- GENERAL NOTES**
- REFER TO SHEET E002 FOR CONTROL, FIXTURE, AND PANEL SCHEDULES.
  - REFER TO SHEET ED201 AND ED211 FOR DEMOLITION PLANS.
  - ALL EXIT SIGNS AND DIMMABLE EMERGENCY LIGHTING DESIGNATED BY SHADING/COLORING AND 'EM' SHALL BE POWERED BY EMERGENCY LIGHTING INVERTER EMSS LOCATED IN BDF ROOM 1061 ON FIRST FLOOR BELOW IDF ROOM 2050. UTILIZE UL924 COMPLIANT EMERGENCY RELAYS FOR ALL DIMMABLE EMERGENCY LIGHTING FIXTURES FOR OVERRIDE OF MANUAL CONTROL DURING A LOSS OF NORMAL POWER.
  - WIRING IN CEILING SPACES USED AS ENVIRONMENTAL AIR PLENUMS SHALL BE PLENUM-RATED OR INSTALLED IN METALLIC CONDUIT IN ACCORDANCE WITH CEC ARTICLE 300.22. NON-PLENUM-RATED WIRING SHALL NOT BE INSTALLED EXPOSED IN PLENUM SPACES.

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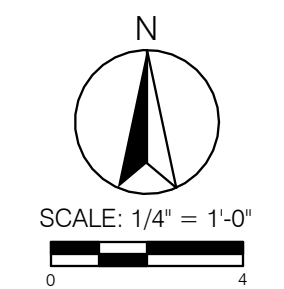
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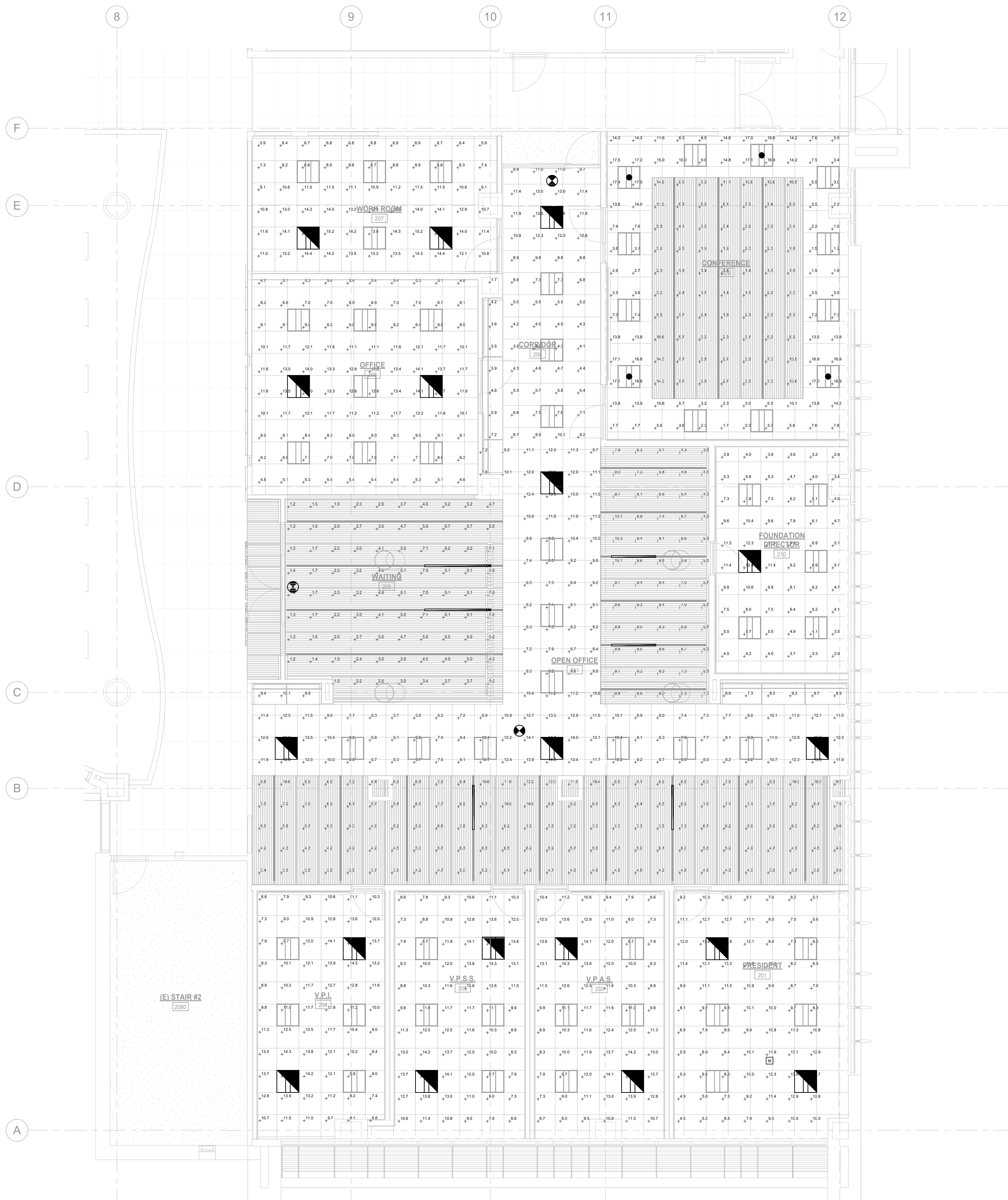
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**ENLARGED 2ND FLOOR  
 RENO LIGHTING PLAN**

drawing no.:  
**E211**

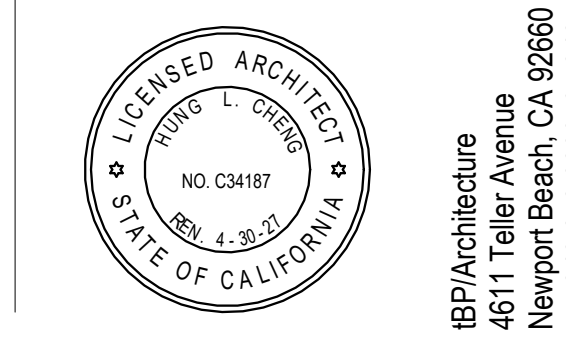
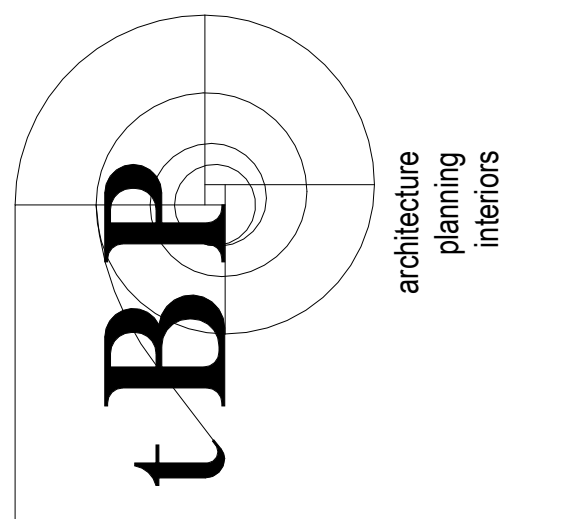




**GENERAL NOTES**  
 1. REFER TO SHEET E211 FOR ADDITIONAL LIGHTING INFORMATION.

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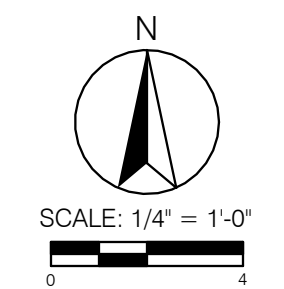
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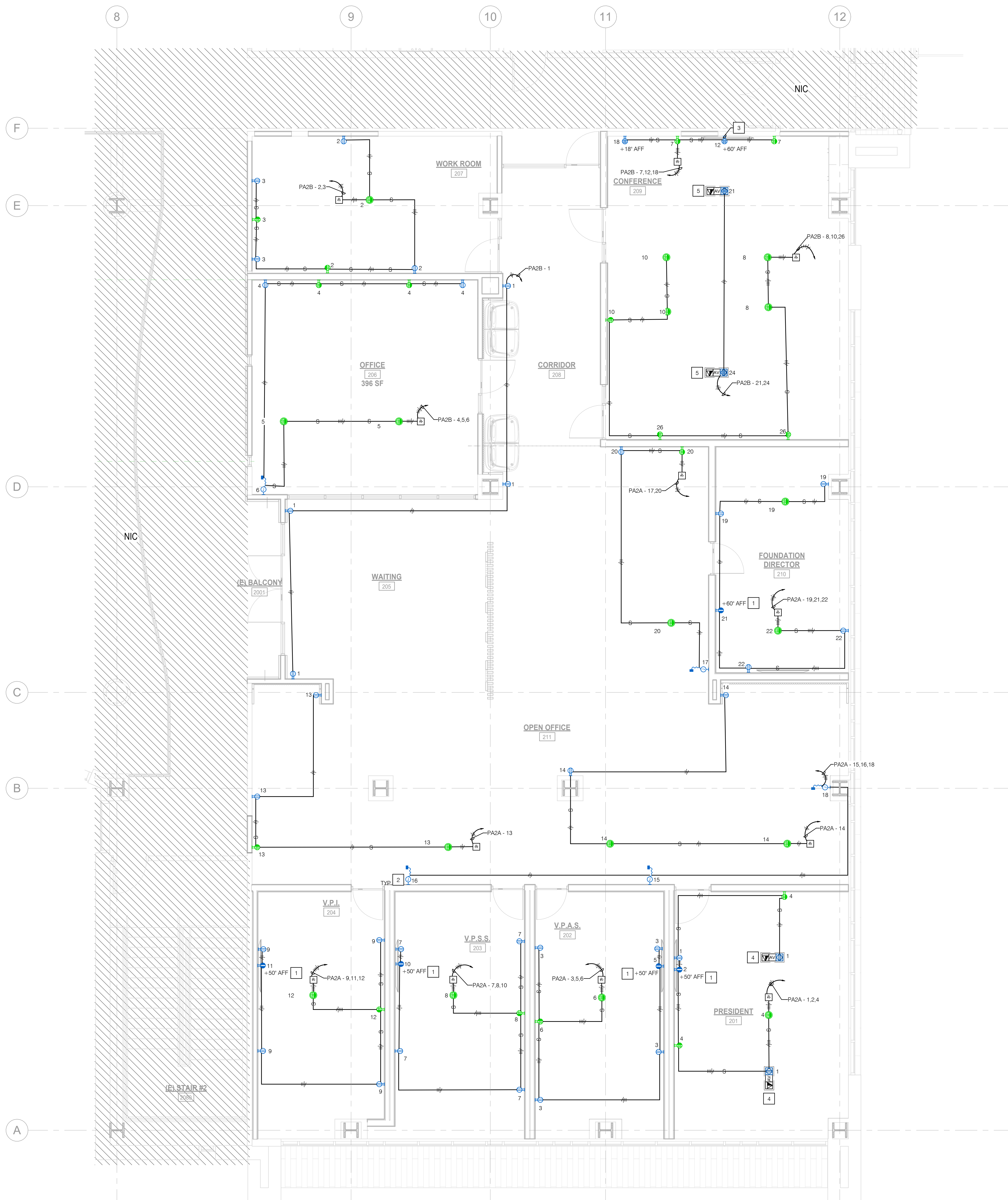
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drawing title:  
**ENLARGED 2ND FLOOR  
 EGRESS PHOTOMETRICS**  
 drawing no.:

**E211P**

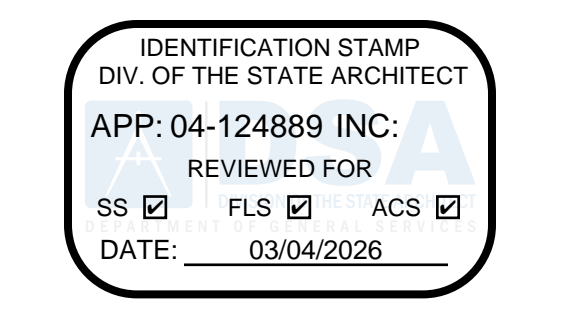
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203 - VPSS	11.1 fc	14.8 fc	6.6 fc	2.2:1
204 - VPI	11.2 fc	14.9 fc	6.6 fc	2.3:1
205 - WAITING	4.3 fc	9.1 fc	1.2 fc	7.6:1
207 - WORK ROOM	11.0 fc	15.3 fc	5.9 fc	2.6:1
208 - CORRIDOR	7.5 fc	13.6 fc	1.7 fc	8.0:1
209 - CONFERENCE	7.4 fc	17.5 fc	1.2 fc	14.6:1
210 - FOUNDATION DIRECTOR	6.5 fc	12.4 fc	2.9 fc	4.3:1
211 - OPEN OFFICE	8.2 fc	14.7 fc	3.4 fc	4.3:1
212 - OFFICE	9.1 fc	14.1 fc	4.7 fc	3.0:1
201 - PRESIDENT	9.6 fc	13.9 fc	4.5 fc	3.1:1



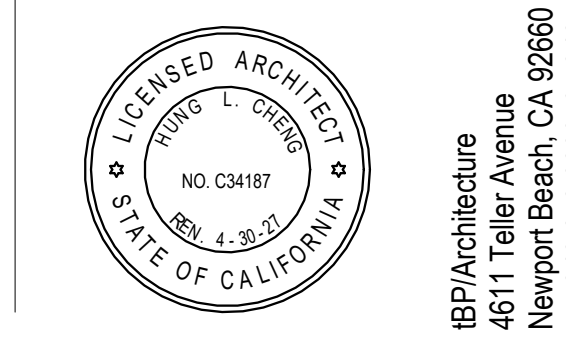
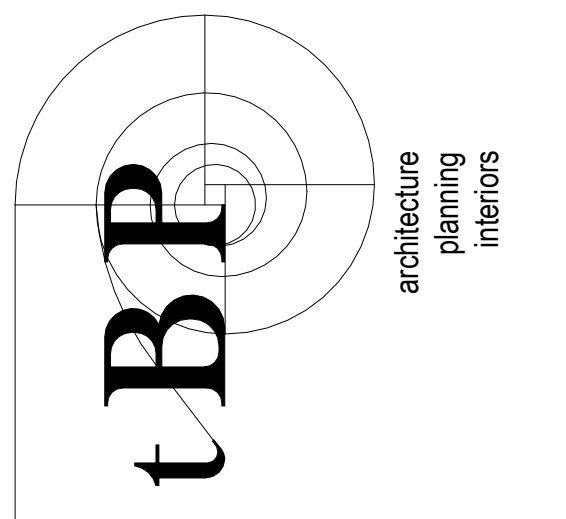


- NOTES**
- 1 PROVIDE A DEDICATED DUPLEX RECEPTACLE TO POWER MONITOR. COORDINATE LOCATION PRIOR TO ROUGH-IN. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
  - 2 PROVIDE A 120V HARDWIRE CONNECTION TO POWER OFFICE STATIONS. COORDINATE LOCATION PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
  - 3 PROVIDE A DEDICATED QUAD RECEPTACLE TO POWER MONITOR. COORDINATE LOCATION PRIOR TO ROUGH-IN. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
  - 4 PROVIDE 8" COMBINATIONAL (AV/IT/PWR) POKE-THRU WITH A DUPLEX RECEPTACLE. COORDINATE LOCATION PRIOR TO ROUGH-IN. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
  - 5 PROVIDE 8" COMBINATIONAL (AV/IT/PWR) POKE-THRU WITH A DEDICATED QUAD RECEPTACLE. COORDINATE LOCATION PRIOR TO ROUGH-IN. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.

- GENERAL NOTES**
1. REFER TO SHEET ED201 AND ED221 FOR DEMOLITION PLANS.
  2. WIRING IN CEILING SPACES USED AS ENVIRONMENTAL AIR FLENUMS SHALL BE FLENUM-RATED OR INSTALLED IN METALLIC CONDUIT IN ACCORDANCE WITH CEC ARTICLE 300.22. NON-FLENUM-RATED WIRING SHALL NOT BE INSTALLED EXPOSED IN FLENUM SPACES.



DIVISION OF THE STATE ARCHITECT  
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**Golden West College-  
Student Services Center  
EXECUTIVE OFFICE**  
15744 Goldenwest Street  
Huntington Beach, CA 92647  
owner  
Coast Community College District- Golden West College

tBP project number: tBP No: 21182.00

file name:

drawn by: K Nickels checked by: M Lindarto

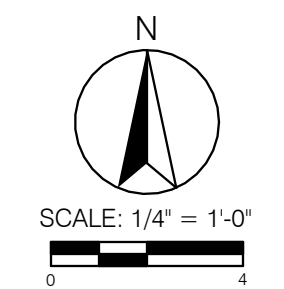
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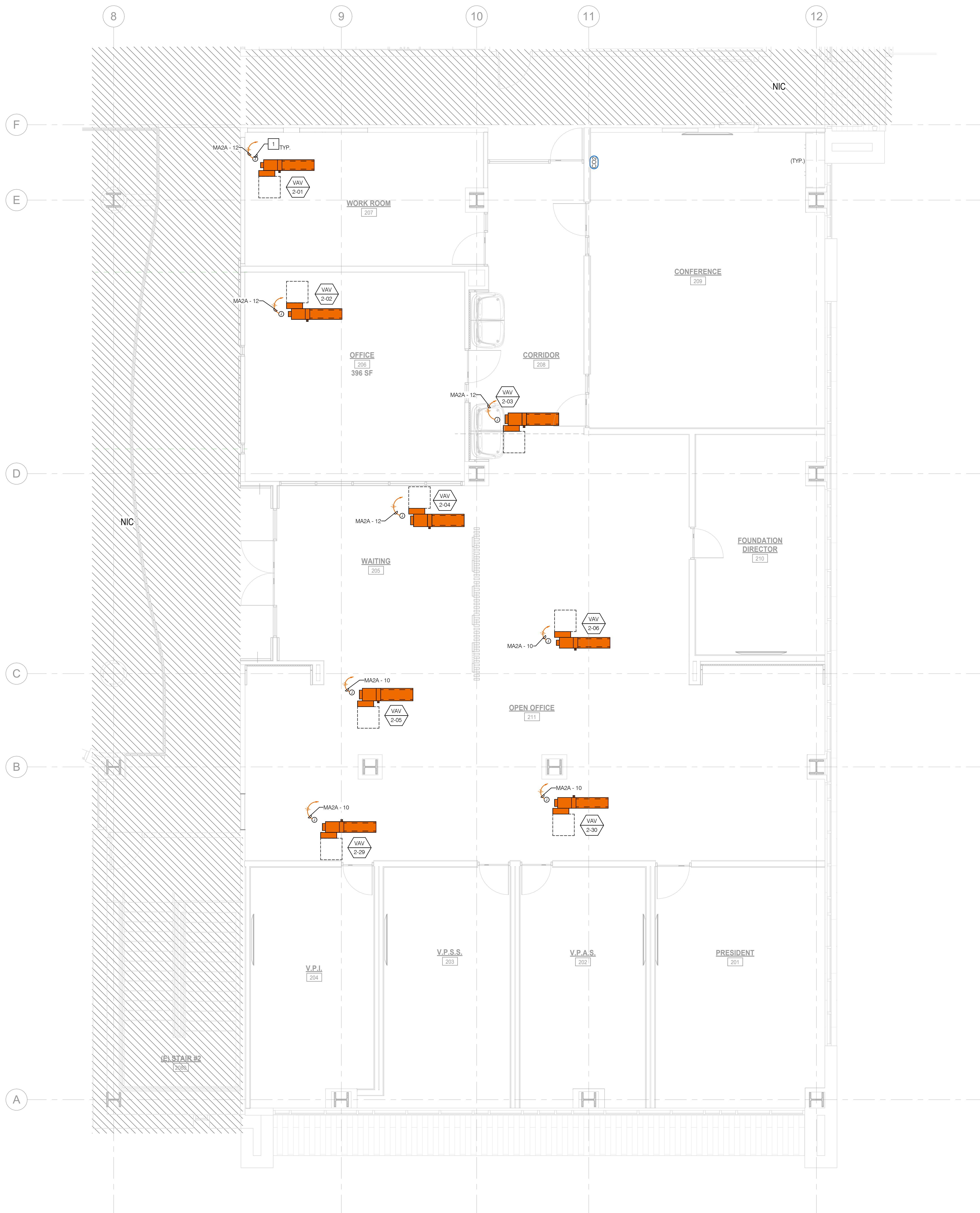
rev.	date	description:
	10/06/25	50% CD
	10/27/25	100% CD
	11/03/25	DSA SUBMITTAL

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drawing title:  
**ENLARGED 2ND FLOOR  
POWER RENO PLAN**

drawing no.:  
**E221**



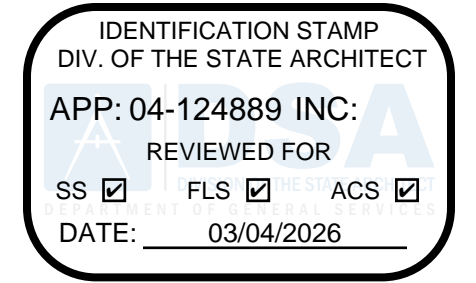


**NOTES**

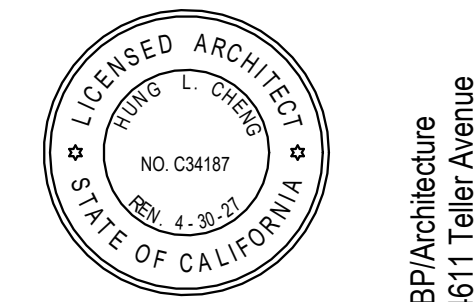
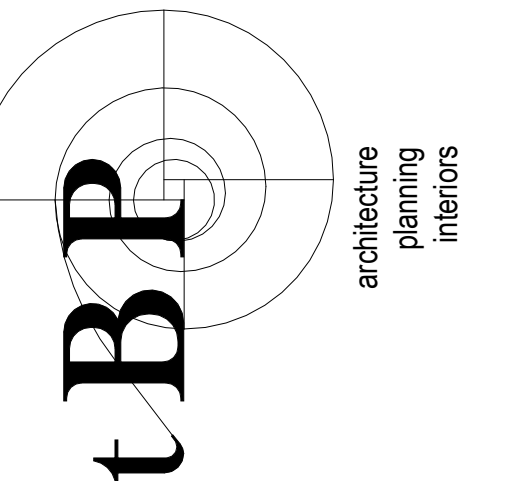
- 1. PROVIDE 120V TO POWER MECHANICAL VAV. CONTRACTOR TO COORDINATE EXACT LOCATION OF THE EQUIPMENT IN FIELD PRIOR TO ROUGH IN. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

**GENERAL NOTES**

- 1. REFER TO SHEETS ED201 AND ED231 FOR DEMOLITION PLANS AND ADDITIONAL INFORMATION.
- 2. WIRING IN CEILING SPACES USED AS ENVIRONMENTAL AIR PLENUMS SHALL BE PLENUM-RATED OR INSTALLED IN METALLIC CONDUIT IN ACCORDANCE WITH CEC ARTICLE 300.22. NON-PLENUM-RATED WIRING SHALL NOT BE INSTALLED EXPOSED IN PLENUM SPACES.



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Student Services Center  
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owner  
Coast Community College District- Golden West College

tBP project number: tBP No: 21182.00

file name:

drawn by: K Nickels checked by: M Lindarto

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rev. date: description:

10/06/25 50% CD

10/27/25 100% CD

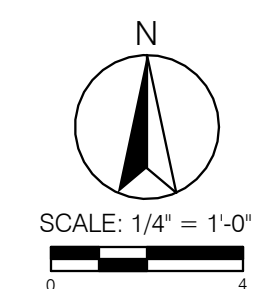
11/03/25 DSA SUBMITTAL

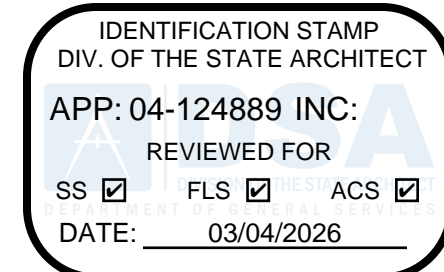
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drawing title:  
**ENLARGED 2ND FLOOR  
AUXILIARY RENO PLAN**

drawing no.:

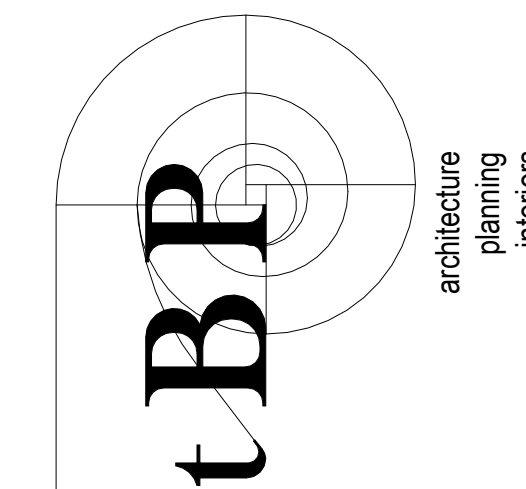
**E231**





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Student Services Center  
EXECUTIVE OFFICE**

15744 Goldenwest Street  
Huntington Beach, CA 92647

owner

tBP project number: tBP No: 21182.00

file name:

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date: 10/06/2025 1:26:2025 11:08:03 AM

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drawing title:  
**EXISTING SINGLE LINE  
DIAGRAM**

drawing no.:

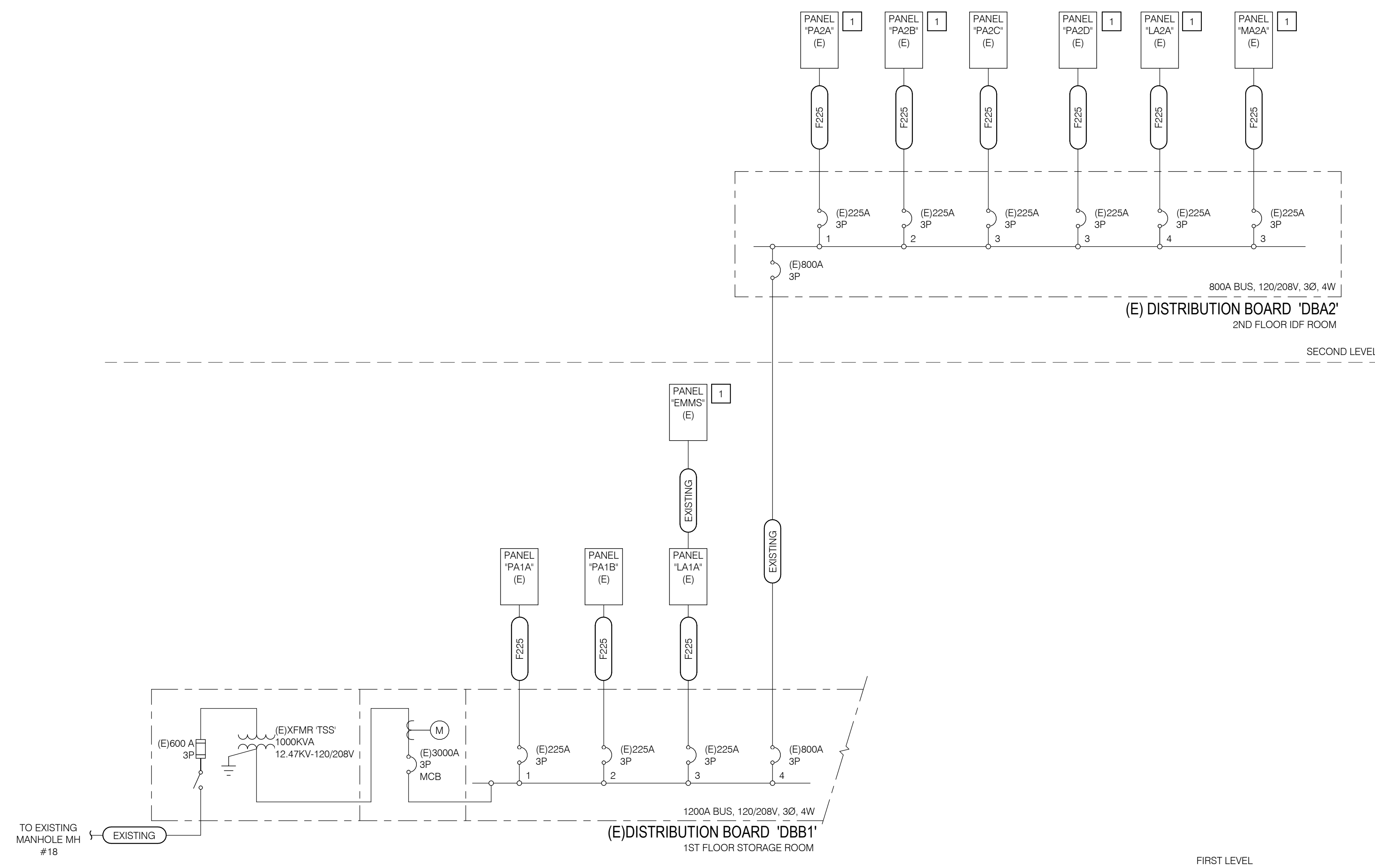
**E501**

**GENERAL NOTES**

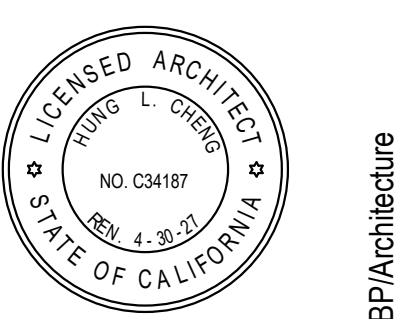
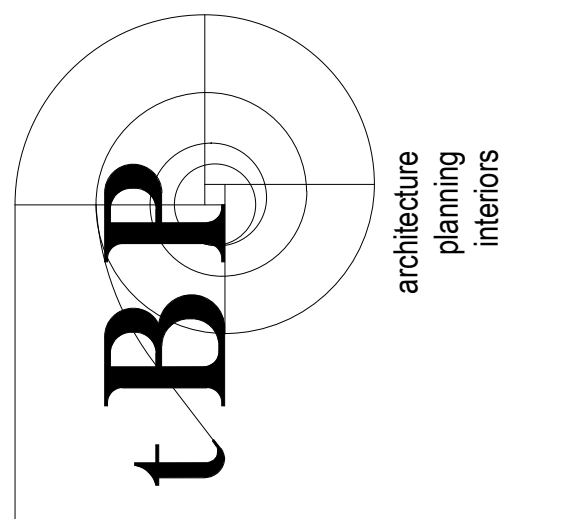
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
- ALL NEW CONDUCTORS SHALL BE COPPER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BUILDING CIRCUITS ASSOCIATED WITH REVISED PANELS, INCLUDING ENSURING THAT ALL AFFECTED EQUIPMENT AND DEVICES ARE RECONNECTED, ENERGIZED, AND FULLY OPERATIONAL TO MATCH EXISTING CONDITIONS PRIOR TO ANY PANEL MODIFICATIONS.
- CONTRACTOR SHALL CIRCUIT TO EXISTING PANELS AS INDICATED, IF THERE IS A CONFLICT WITH EXISTING CONDITIONS, NEXT AVAILABLE CIRCUIT SHALL BE USED.
- ALL COMPONENTS SHALL BE FULLY RATED, SERIES RATED IS NOT ALLOWED.
- REFER TO SHEET E201 FOR PANEL LOCATIONS ON FLOOR PLAN.

**NOTES**

- UTILIZE EXISTING ELECTRICAL PANELS FOR NEW WORK.



FEEDERS		
SYMBOLS	CONDUIT	SETS OF CONDUCTORS PER CONDUIT
	3" C	4#4/0 CU, 1#4 GND
	-	-



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tBIP project number: tBP No: 21182.00

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drawing title:

DETAILS

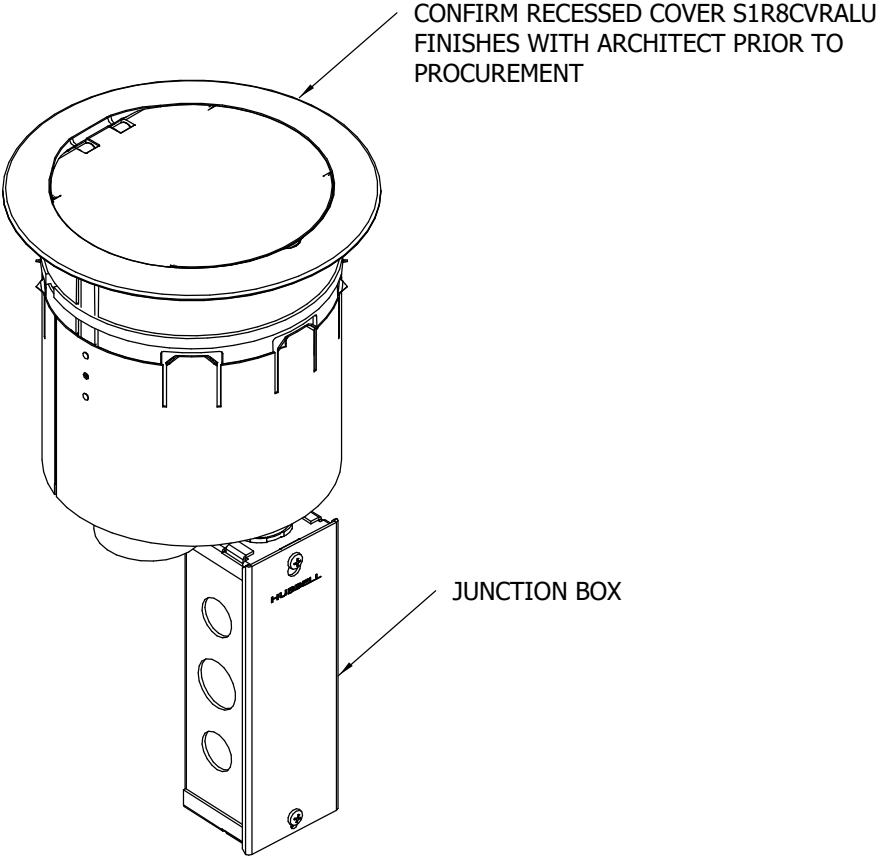
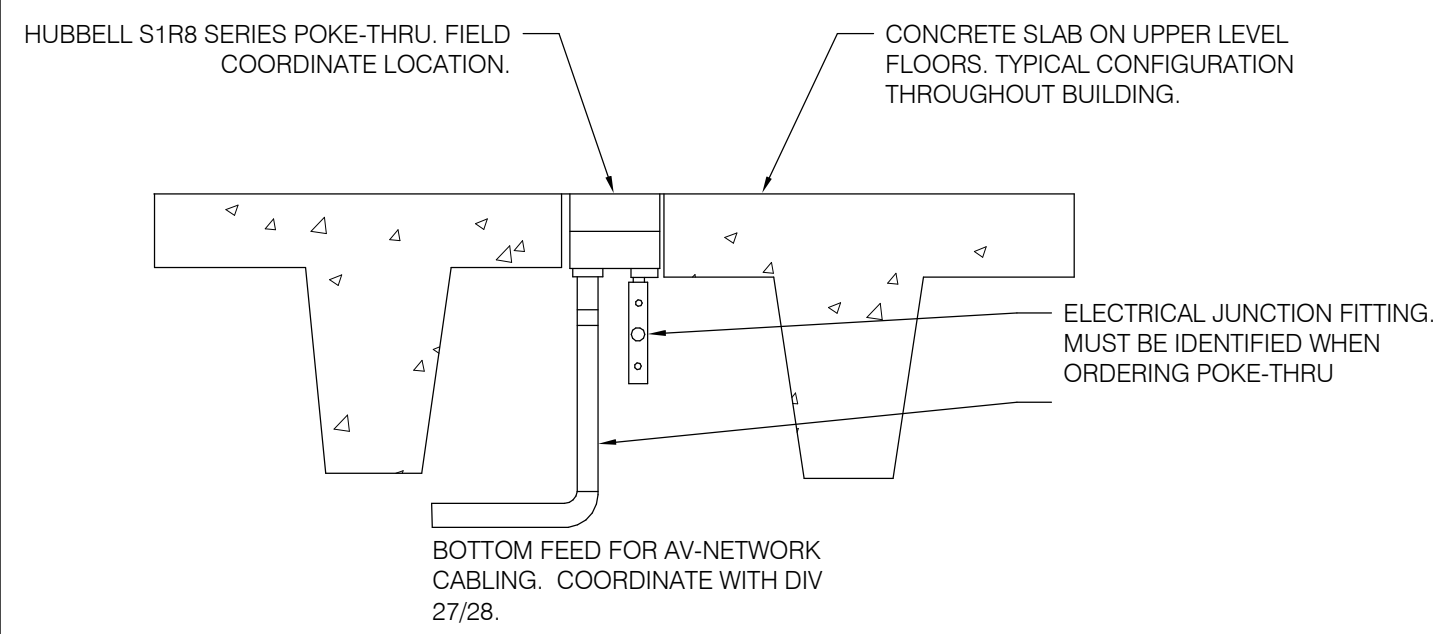
drawing no.:

E601

FIRERATE POKETHRU DEVICES (FRPTS) ARE THROUGH CONCRETE FLOOR PENETRATIONS SHALL INCORPORATE SELF-CONTAINED INTUMESCENT MATERIALS THAT SWELL WHEN HEATED TO SEAL OFF FIRE SPREAD BETWEEN SPACES. FRPTS DO NOT REQUIRE ADDITIONAL FIRESTOP DEVICES OR MATERIALS. FRPTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. THERE ARE NO SURROUNDING GAPS TO BE SEALED AGAINST FLAME SPREAD.

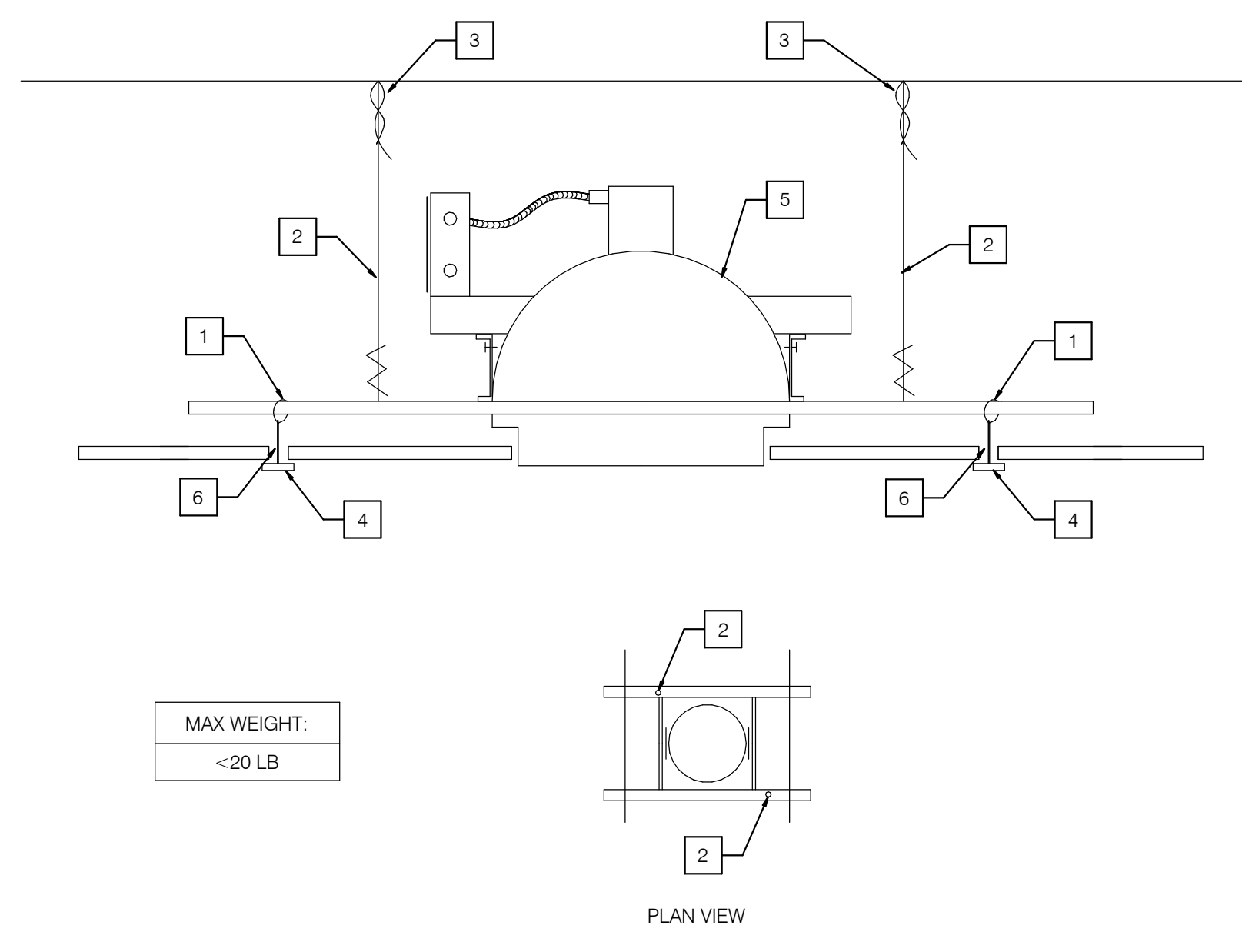
FRPTS SHALL BE EVALUATED AND LISTED ELECTRICALLY TO UL STANDARD UL 514A IN THE U.S. TO SERVE AS ELECTRICAL OUTLET BOXES. SUCH FRPTS ARE LISTED IN UL CATEGORY CODES "OCIT" (U.S.)

FRPTS SHALL FURTHER BE EVALUATED AND CLASSIFIED FOR FIRE RESISTANCE TO UL STANDARD UL 263 IN THE U.S. FLOOR PENETRATION PRODUCTS SHALL BE LISTED AT OR GREATER THAN THE RATING OF THE PENETRATED SURFACE, EVALUATED BY UL FOR USE IN CONCRETE FLOOR STRUCTURE "DESIGNS"



GENERAL NOTES:  
 1. POKE-THRU TO BE UL LISTED FOR FIRE RATED PENETRATION

**6 HUBBELL S1R8 8" POWER/DATA POKE-THRU ASSEMBLY**  
 NO SCALE

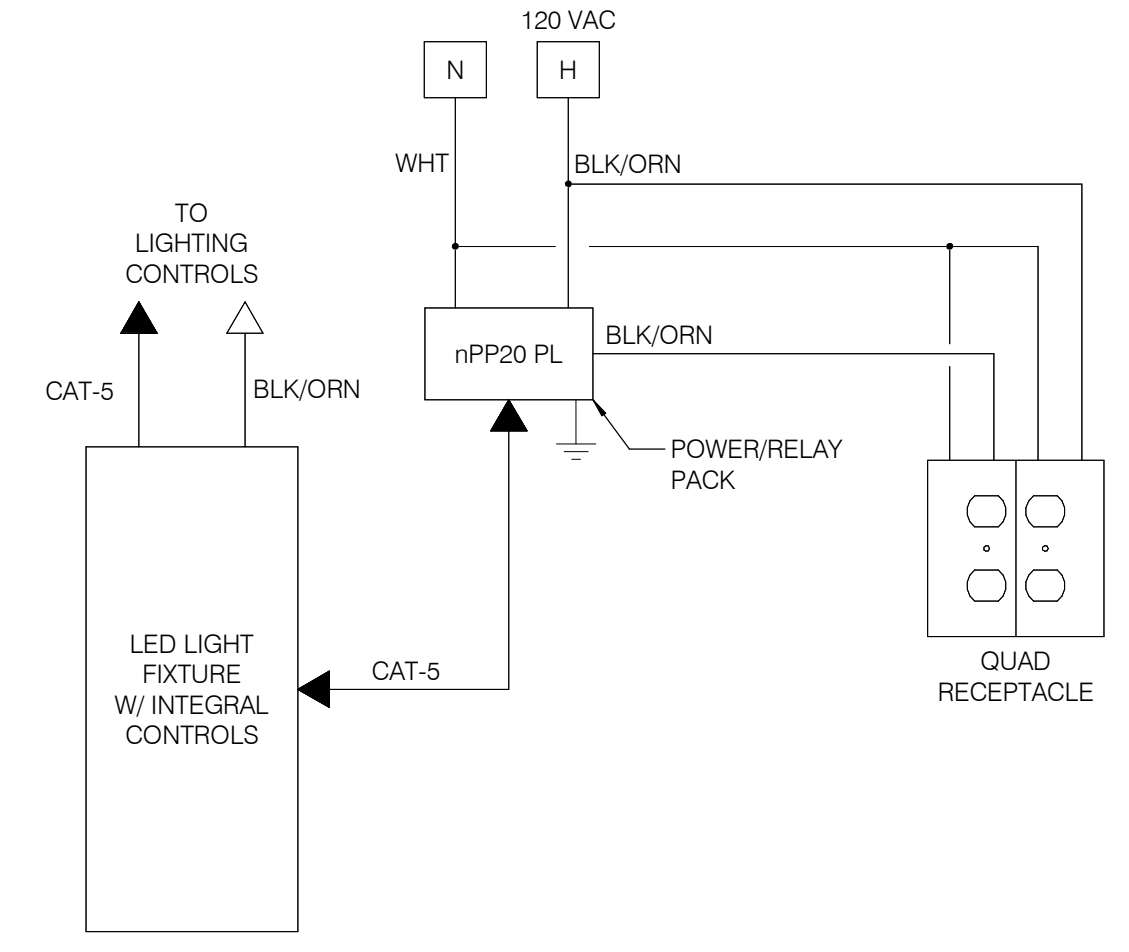


MAX WEIGHT:  
 <20 LB

PLAN VIEW

NOTES  
 1 PROVIDE (2) FIXTURE SUPPORT CHANNELS, DRILL CEILING GRID AND TIE CHANNEL TO GRID WITH WRAP #12 GA. STEEL WIRE WITH 3 TIGHT TURNS WITHIN 1-1/2".  
 2 PROVIDE (1) #12 STEEL WIRE SUPPORT PER CHANNEL. SEE ARCH DETAIL 1/5.01.  
 3 FOR ANCHOR DETAIL, SEE ARCH DETAIL 6/5.01.  
 4 SUSPENDED ACOUSTICAL CEILING.  
 5 RECESSED DOWNLIGHT FIXTURE.  
 6 PROVIDE (2) #8 SMS LIGHT FIXTURE FRAME TO RUNNERS IN ACCORDANCE WITH THE REQUIREMENTS OF REGULATIONS IR-25-2.

**4 DOWNLIGHT FIXTURE - SUSPENDED ACOUSTICAL CEILING**  
 SCALE: NONE

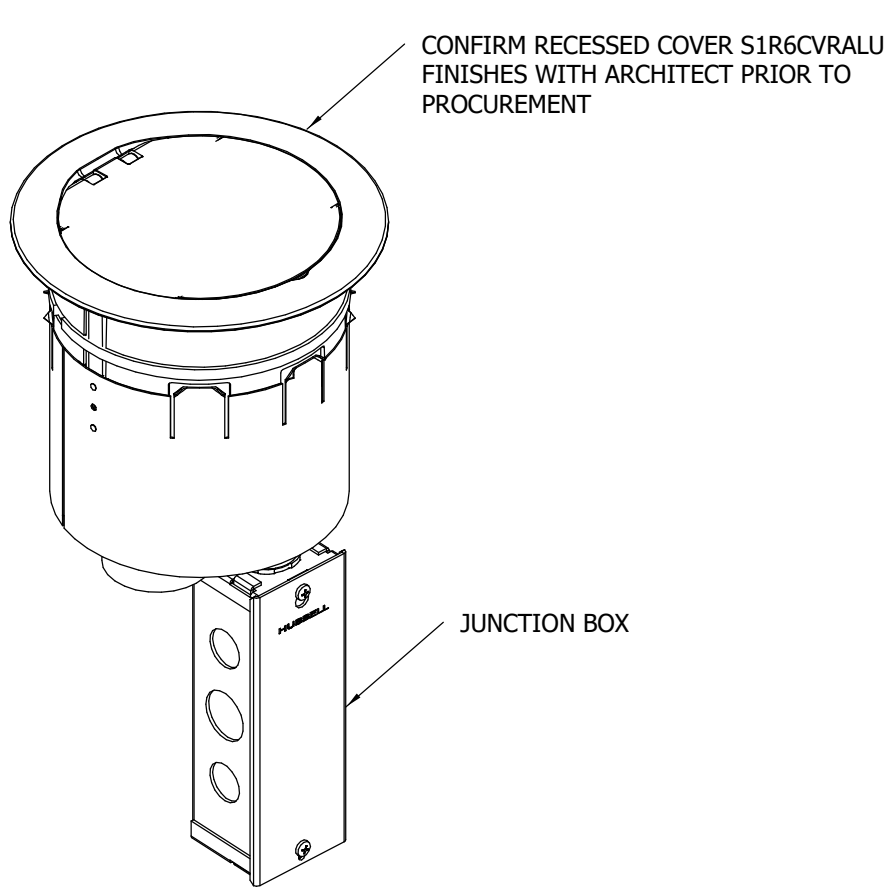
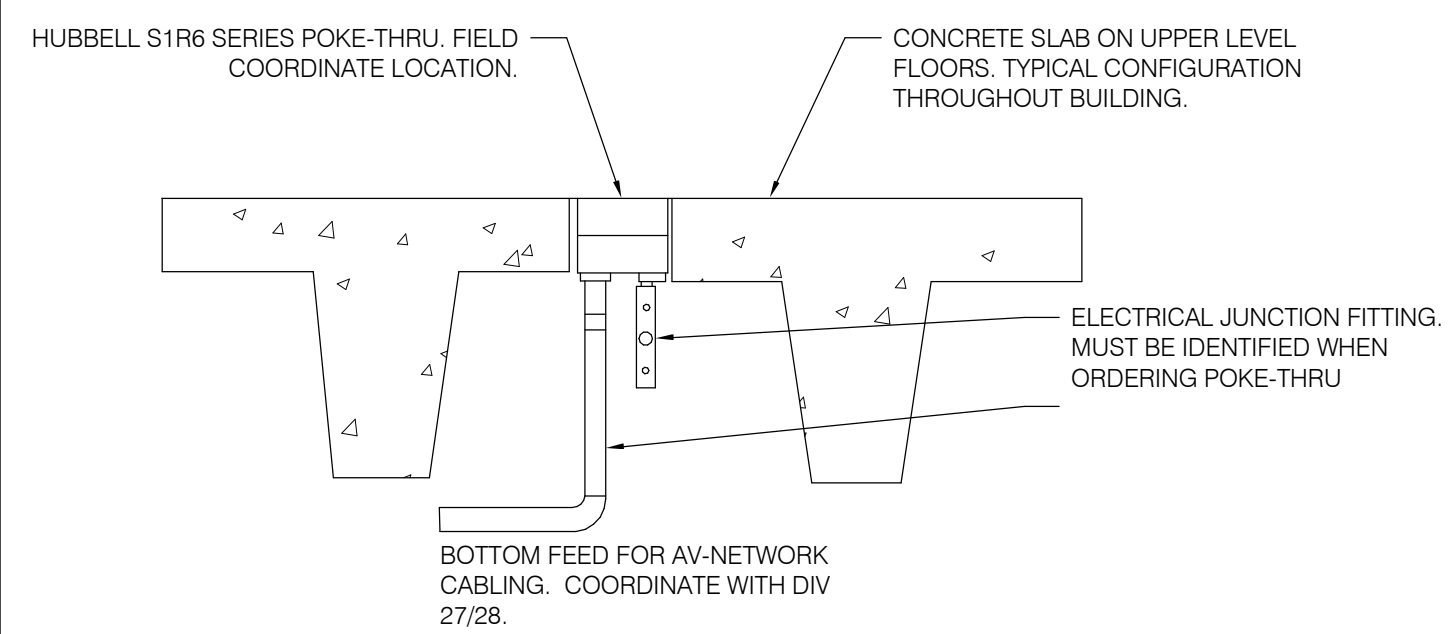


**2 CONTROLLED RECEPTACLE WIRING DIAGRAM-TYPICAL**  
 SCALE: 12" = 1'-0"

FIRERATE POKETHRU DEVICES (FRPTS) ARE THROUGH CONCRETE FLOOR PENETRATIONS SHALL INCORPORATE SELF-CONTAINED INTUMESCENT MATERIALS THAT SWELL WHEN HEATED TO SEAL OFF FIRE SPREAD BETWEEN SPACES. FRPTS DO NOT REQUIRE ADDITIONAL FIRESTOP DEVICES OR MATERIALS. FRPTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. THERE ARE NO SURROUNDING GAPS TO BE SEALED AGAINST FLAME SPREAD.

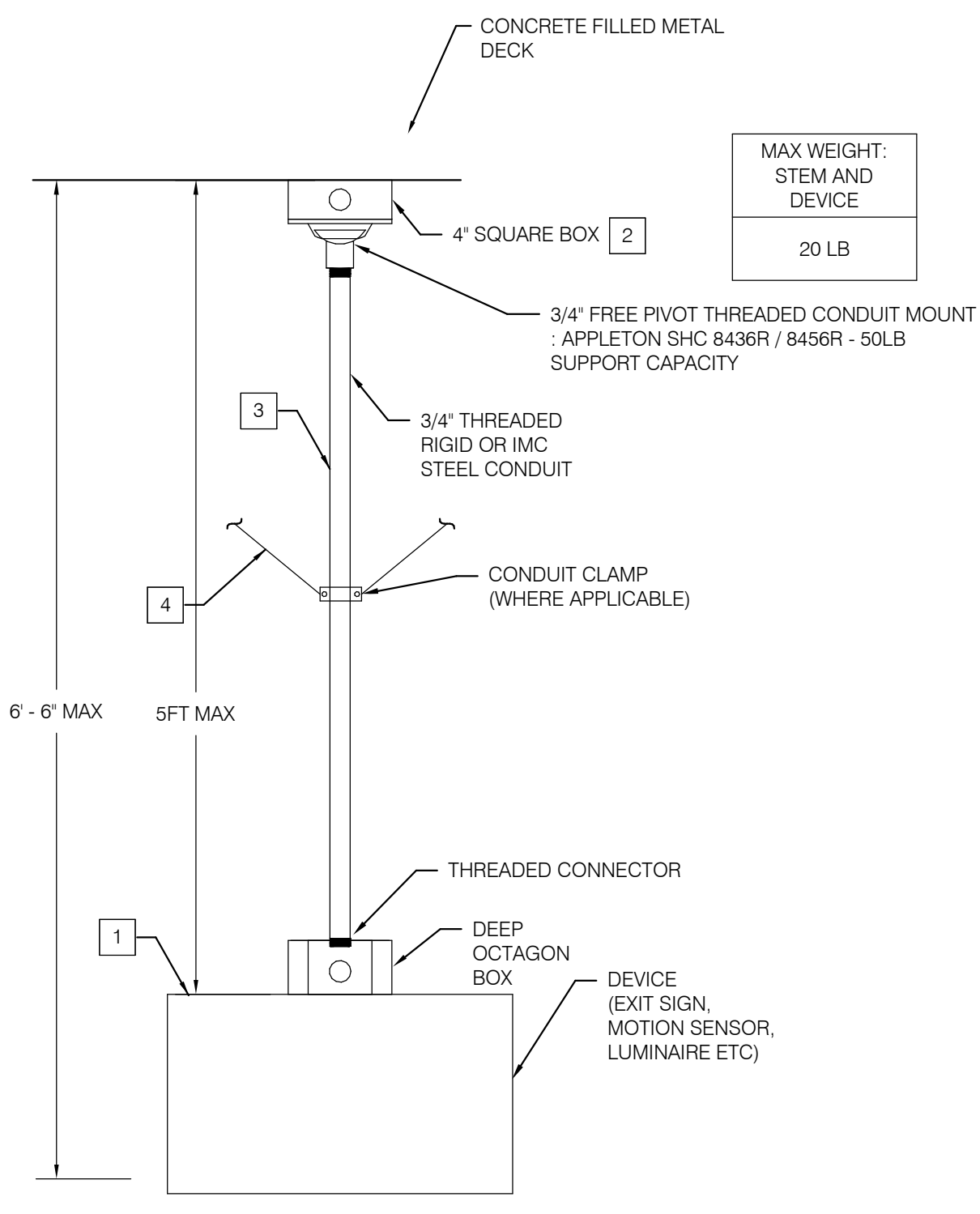
FRPTS SHALL BE EVALUATED AND LISTED ELECTRICALLY TO UL STANDARD UL 514A IN THE U.S. TO SERVE AS ELECTRICAL OUTLET BOXES. SUCH FRPTS ARE LISTED IN UL CATEGORY CODES "OCIT" (U.S.)

FRPTS SHALL FURTHER BE EVALUATED AND CLASSIFIED FOR FIRE RESISTANCE TO UL STANDARD UL 263 IN THE U.S. FLOOR PENETRATION PRODUCTS SHALL BE LISTED AT OR GREATER THAN THE RATING OF THE PENETRATED SURFACE, EVALUATED BY UL FOR USE IN CONCRETE FLOOR STRUCTURE "DESIGNS"



GENERAL NOTES:  
 1. POKE-THRU TO BE UL LISTED FOR FIRE RATED PENETRATION

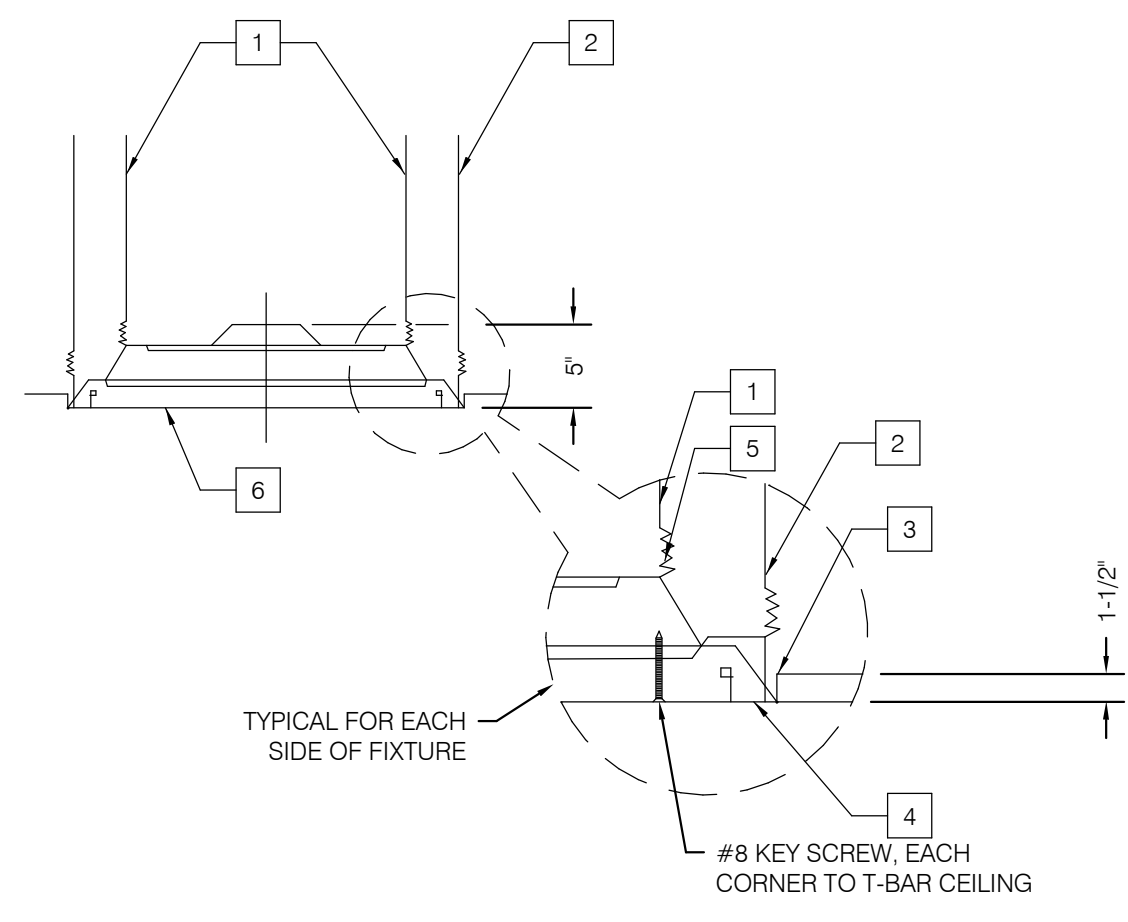
**5 HUBBELL S1R6 6" POWER/DATA POKE-THRU ASSEMBLY**  
 NO SCALE



MAX WEIGHT:  
 20 LB

NOTES  
 1 DEVICE (EXIT SIGN OR MOTION SENSOR, ETC)  
 2 FOR ANCHOR DETAIL, SEE ARCH DETAIL 6/5.01.  
 3 3/4" DIAM STEEL 3/4" THREADED RIGID OR IMC STEEL CONDUIT. PROVIDE STEM SUCH THAT PENDANT IS RESTRAINED FROM LATERAL MOVEMENT.  
 4 WHERE SWAY EXCEEDS 45 DEGREE FROM OBSTRUCTION: PROVIDE RESTRAINTS, CONNECTIONS, AND SUPPORTS DESIGNED TO RESIST ALL APPLICABLE CODE PRESCRIBED FORCES PER DSA IR 16-9. (4) SEISMIC BRACINGS IN ORIENTATION BY 90 DEGREES. SEE ARCH DETAIL 6/5.01 FOR ANCHORING AND ARCH DETAIL 1/5.01 FOR SUPPORT.

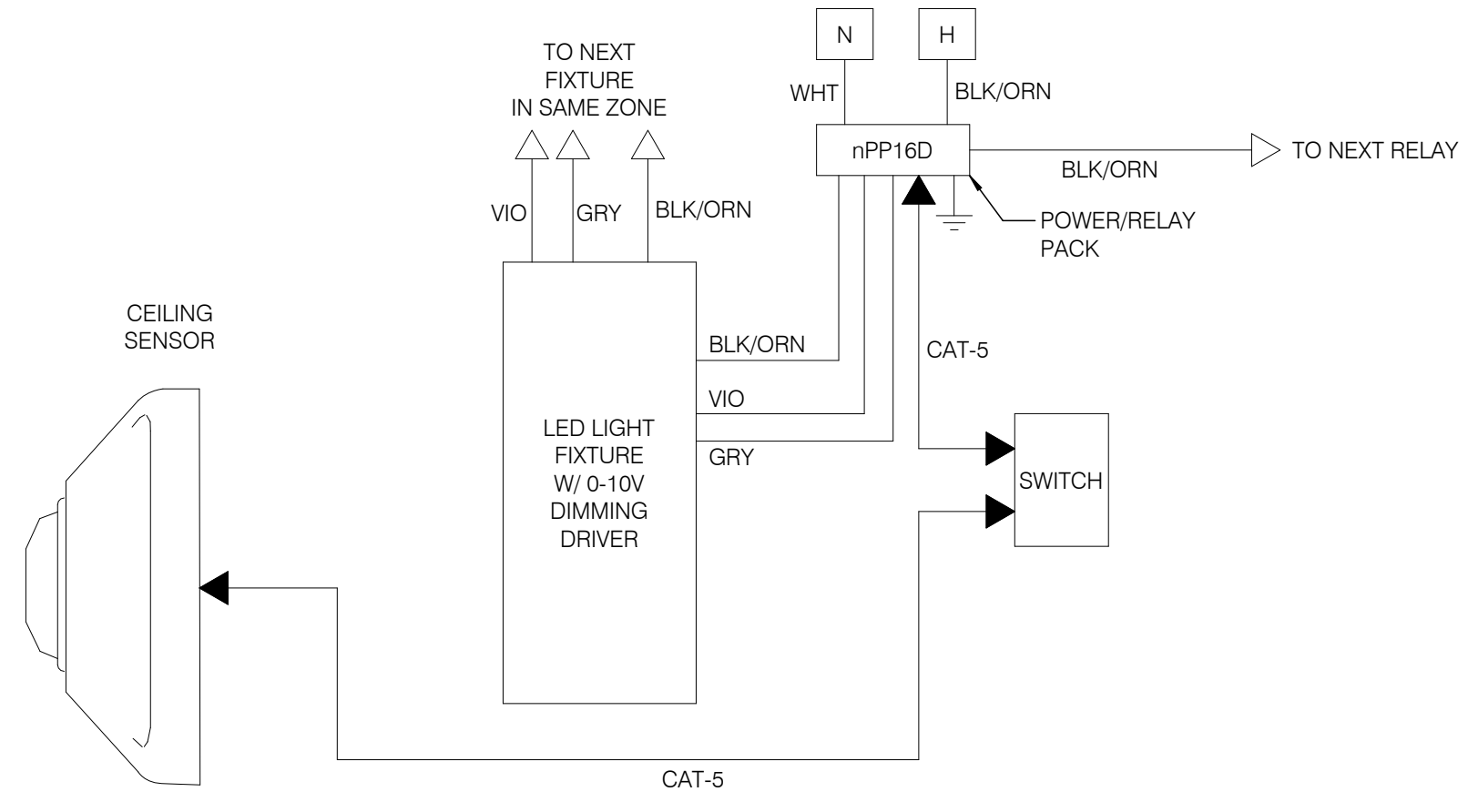
**3 EXIT SIGN - WOOD SLAT CEILING PENDANT MOUNT**  
 NO SCALE



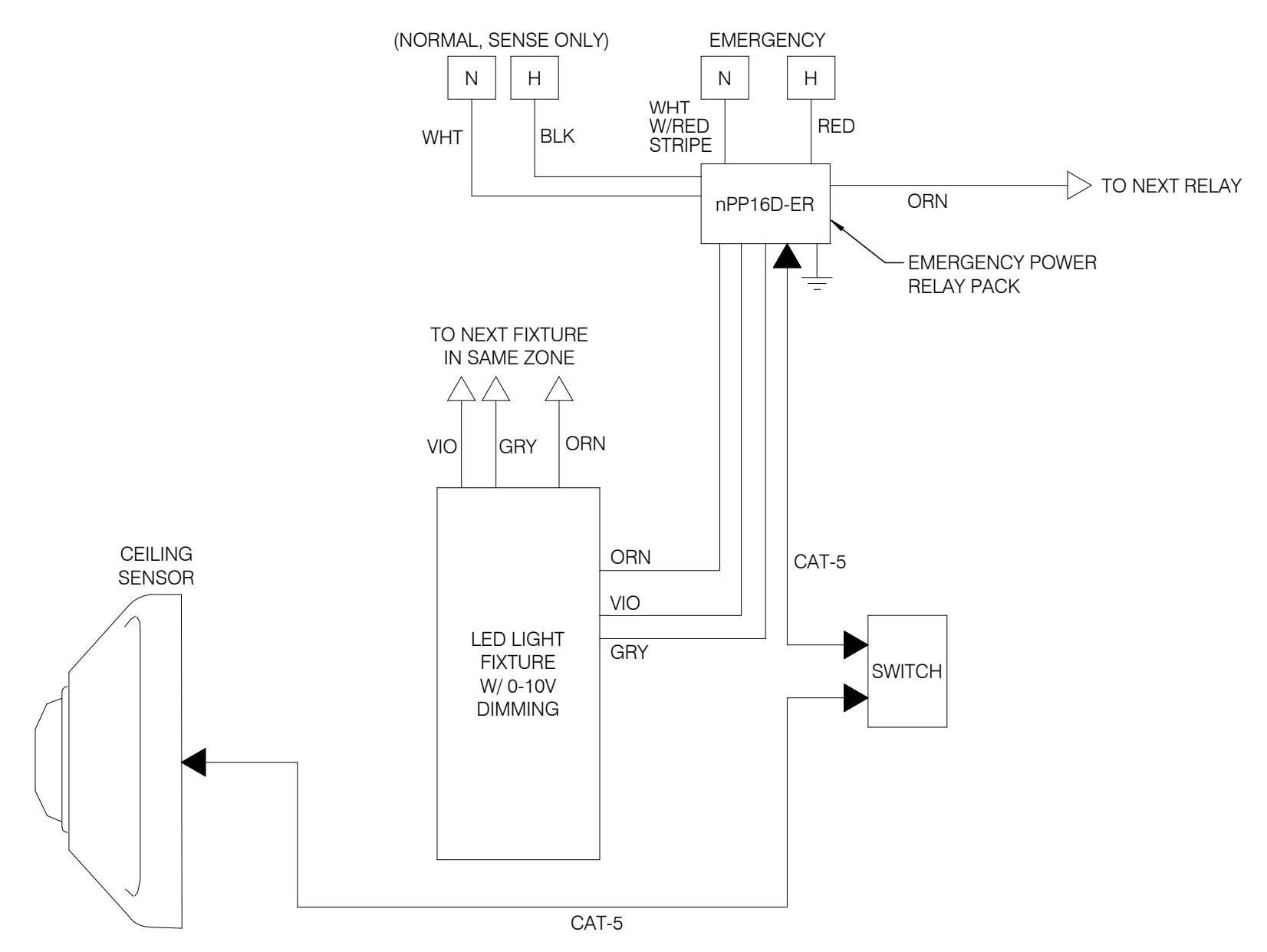
NOTES  
 1 FIXTURE SUPPORT WIRES ON FOUR CORNERS. ATTACH TO STRUCTURE. REFER TO ARCHITECTURE DETAIL 3/A5.01.  
 2 CEILING SUSPENSION SYSTEM AND WIRES. ATTACH TO STRUCTURE. REFER TO ARCHITECTURE DETAIL 3/A5.01.  
 3 CEILING SYSTEM PER ARCHITECTURAL SPECIFICATION.  
 4 CEILING GRID SYSTEM PER ARCHITECTURAL SPECIFICATION.  
 5 SUPPORT TAB HARDWARE PER MANUFACTURER.  
 6 LIGHT FIXTURE.

GENERAL NOTES  
 1 INSTALLATION SHALL COMPLY WITH LATEST "IR" MANUAL: 25.2-13" ISSUED BY DIVISION OF THE STATE ARCHITECT AND MANUFACTURER RECOMMENDATION

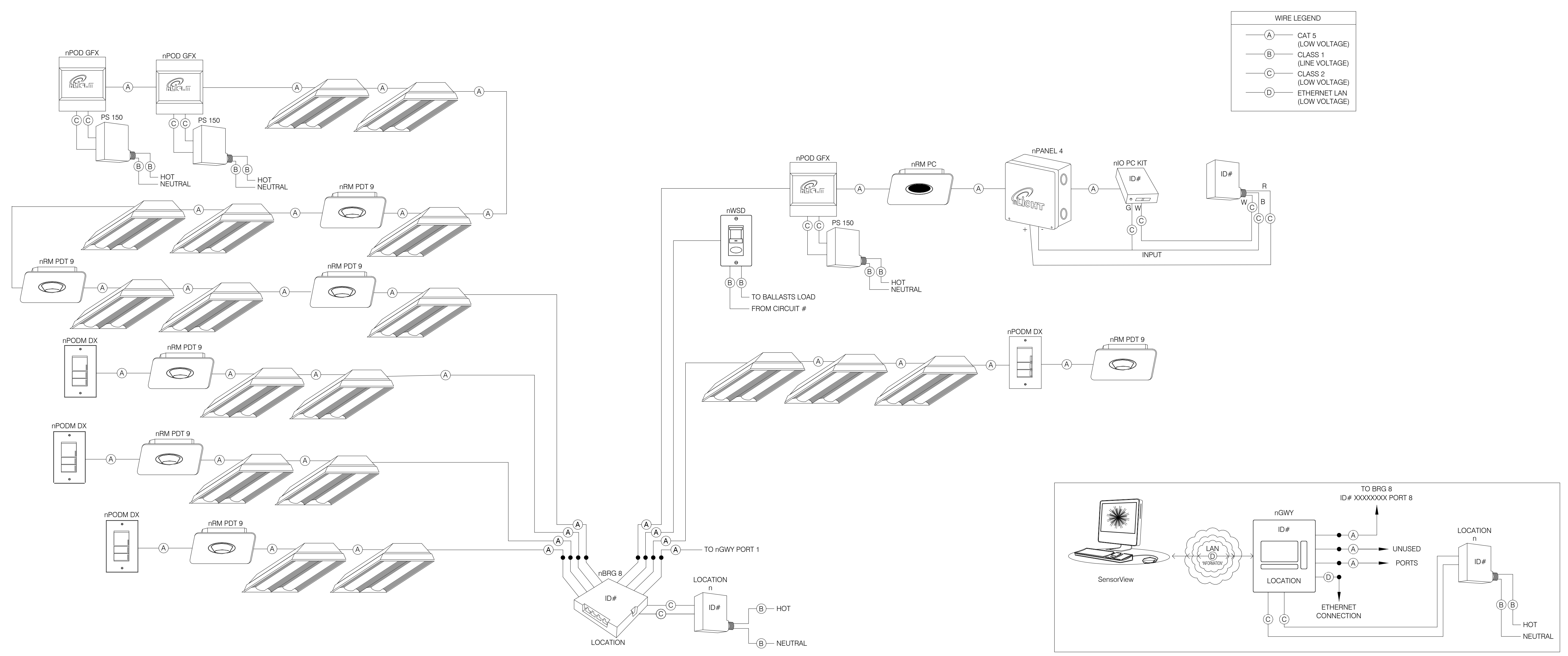
**1 RECESSED 2'X2' AND 2'X4' MOUNTING DETAIL-ACOUSTICAL CEILING**  
 NO SCALE



**3** DIMMABLE DRIVER FIXTURE WIRING DIAGRAM-TYPICAL  
 SCALE: NONE



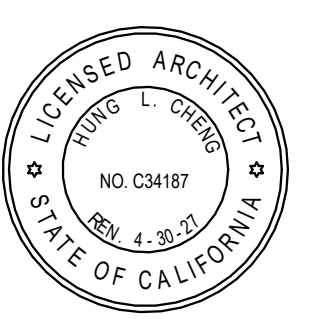
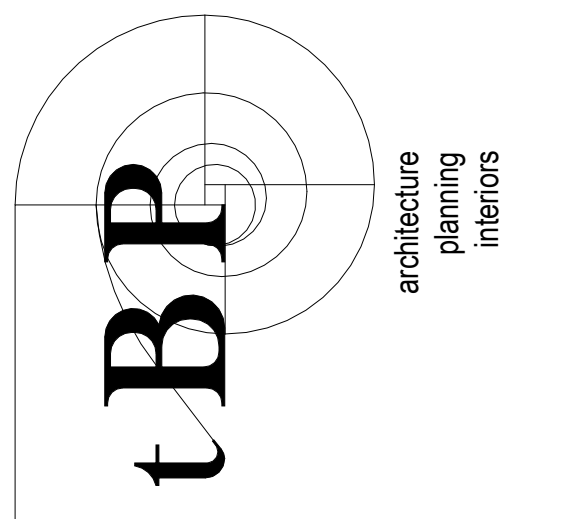
**2** DIMMABLE DRIVER EMERGENCY FIXTURE WIRING DIAGRAM - TYPICAL  
 SCALE: NONE



**1** TYPICAL NLIGHT CONTROLS WIRING DIAGRAM  
 SCALE: NONE

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-124889 INC:  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 03/04/2026

DIVISION OF THE STATE ARCHITECT  
 10920 VIA FRONTERA, SUITE 300



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 Huntington Beach, CA 92647

Coast Community College District- Golden West College

owner

tBP project number: tBP No: 21182.00

file name:

drawn by: K Nickels checked by: M Lindarto

date: 10/06/2025 1:26:2025 11:08:04 AM

rev.	date:	description:
	10/06/25	50% CD
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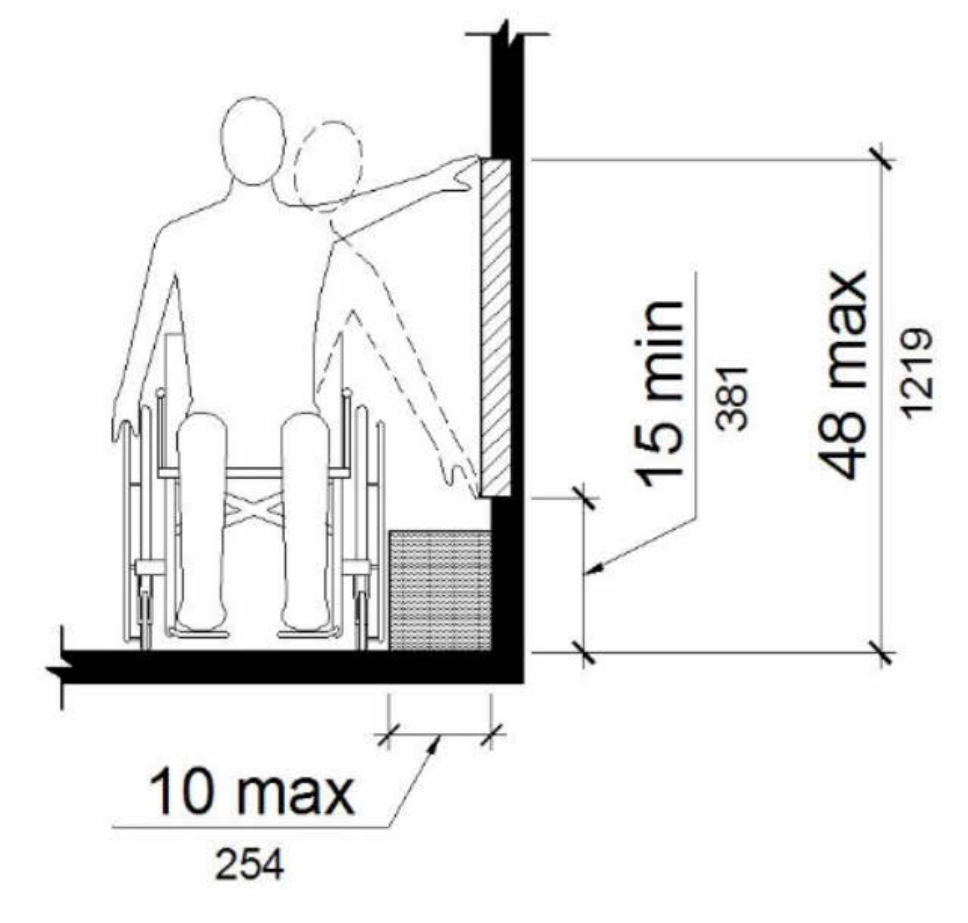
drawing title:

DETAILS

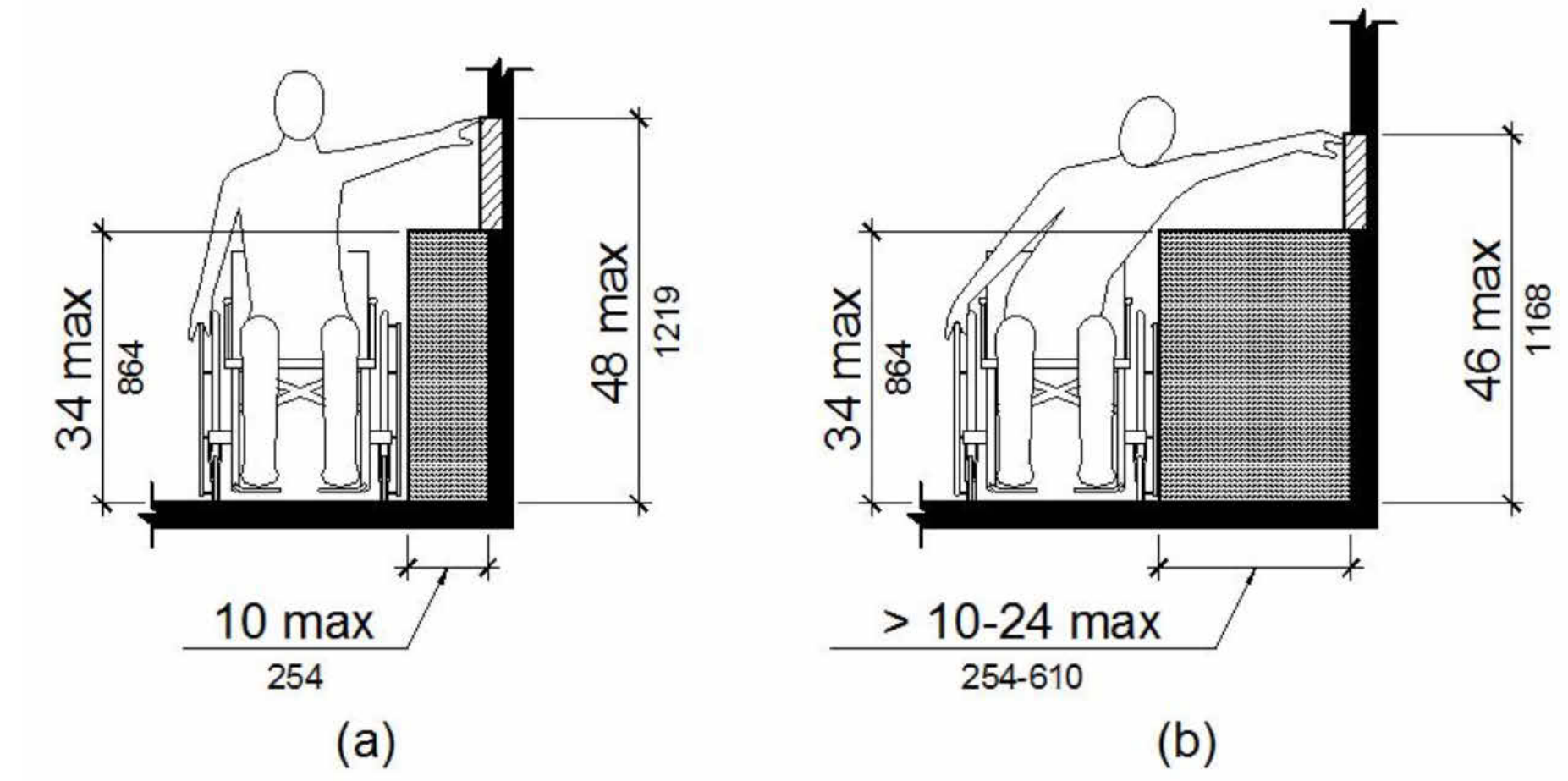
drawing no.:

E603

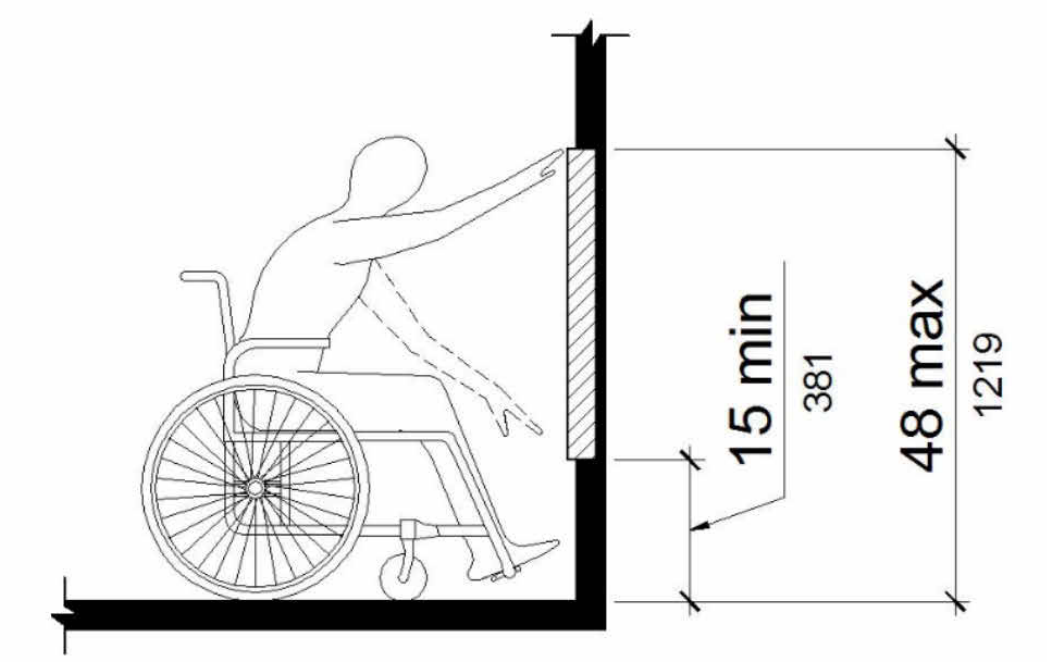
Operable parts of all accessible elements shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds max. **(CBC Sec. 11B-205 and 11B-309.4)**  
 Operable parts of all accessible elements shall be placed within accessible reach ranges per the following details:



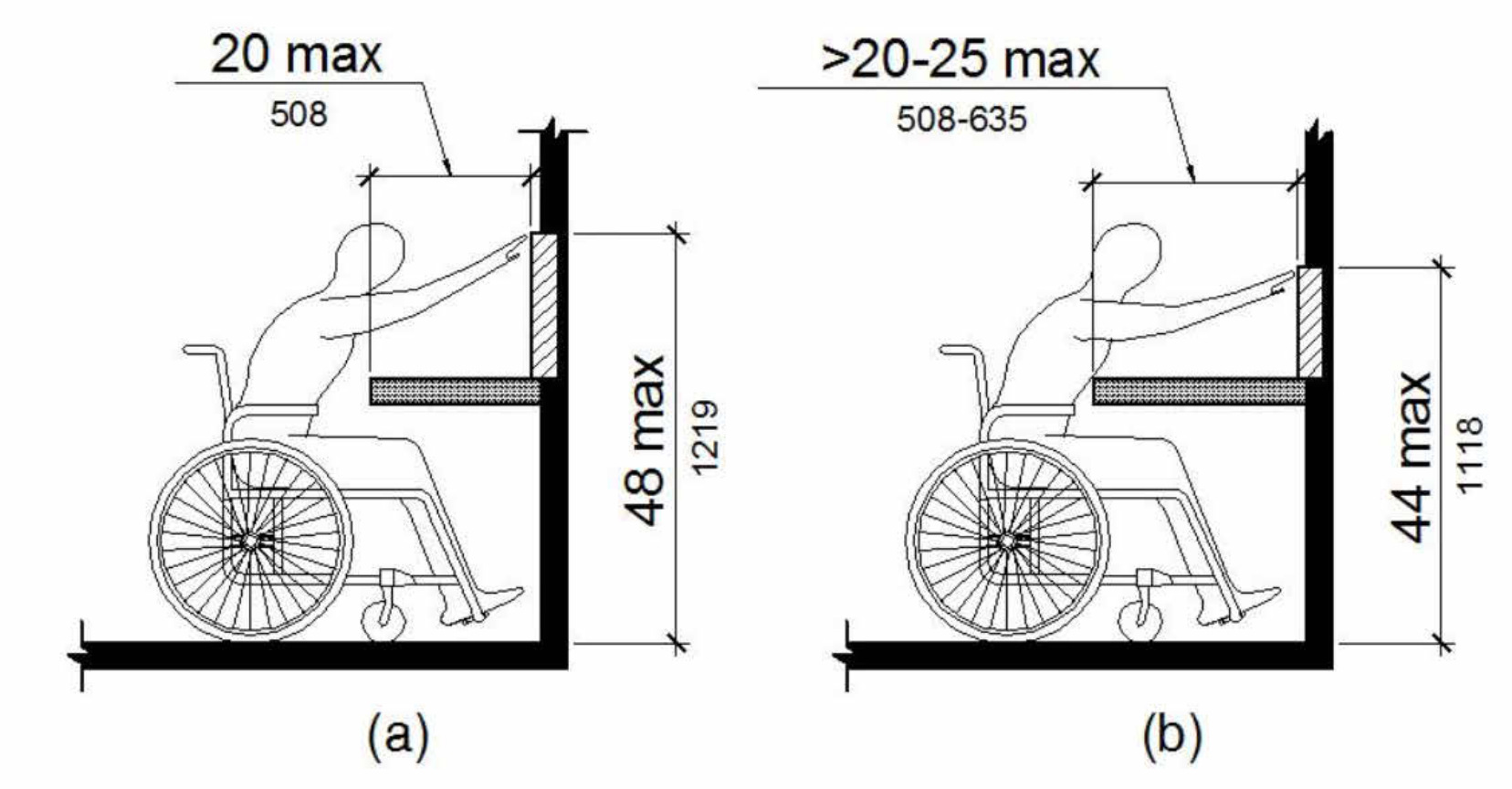
4 UNOBSTRUCTED SIDE REACH  
 SCALE: NONE



2 OBSTRUCTED HIGH SIDE REACH  
 SCALE: NONE



3 UNOBSTRUCTED FORWARD REACH  
 SCALE: NONE



1 OBSTRUCTED HIGH FORWARD REACH  
 SCALE: NONE

STATE OF CALIFORNIA  
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-474-E  
 Project Name: GWC Presidential Suite TI Report Page: (Page 1 of 9)  
 Project Address: 15744 Goldenwest Street, Huntington Beach, CA 92647 Date Prepared: 2025-10-22 17:33:37

A. GENERAL INFORMATION				
01 Project Location (city)	Huntington Beach	04 Total Conditioned Floor Area (ft <sup>2</sup> )	5,091	
02 Climate Zone	6	05 Total Unconditioned Floor Area (ft <sup>2</sup> )	0	
03 Occupancy Types Within Project (select all that apply):	06 # of Stories (Habitable Above Grade)	2		
<input type="checkbox"/> Classroom <input type="checkbox"/> Office				

B. PROJECT SCOPE				
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.				
Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):				
<input type="checkbox"/> New Lighting System	Calculation Method	Area (ft <sup>2</sup> )	Calculation Method	Area (ft <sup>2</sup> )
<input type="checkbox"/> New Lighting System - Parking Garage	Complete Building Method	5091	N/A	0
	N/A	0	N/A	0
Total Area of Work (ft <sup>2</sup> )		5091		

Generated Date/Time: Documentation Software: Energy Code Ace  
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 333762-1025-0003  
 Schema Version: rev 20220101 Report Generated: 2025-10-22 17:33:37

STATE OF CALIFORNIA  
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-474-E  
 Project Name: GWC Presidential Suite TI Report Page: (Page 2 of 9)  
 Project Address: 15744 Goldenwest Street, Huntington Beach, CA 92647 Date Prepared: 2025-10-22 17:33:37

C. COMPLIANCE RESULTS									
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.									
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(a) (Watts)			Compliance Results
	01	02	03	04	05	06	07	08	
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)3 / 170.2(e)4a (+)	Tailored 140.6(c)3 / 170.2(e)4b (+)	Total Allowed	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	Total Adjusted (Watts) *Includes Adjustments	
(See Table I)	(See Table I)	(See Table J)	(See Table K)	= 2,932.2	= 2,822	=	= 2822	09	
Conditioned	2,932.2				= 2,932.2	= 2,822	=	2822	COMPLIES
Unconditioned					=	=	=		COMPLIES
Controls Compliance (See Table H for Details) COMPLIES									
Rated Power Reduction Compliance (See Table Q for Details)									

D. EXCEPTIONAL CONDITIONS  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: Energy Code Ace  
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 333762-1025-0003  
 Schema Version: rev 20220101 Report Generated: 2025-10-22 17:33:37

STATE OF CALIFORNIA  
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-474-E  
 Project Name: GWC Presidential Suite TI Report Page: (Page 3 of 9)  
 Project Address: 15744 Goldenwest Street, Huntington Beach, CA 92647 Date Prepared: 2025-10-22 17:33:37

F. INDOOR LIGHTING FIXTURE SCHEDULE										
This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.										
Designated Wattage: Conditioned Spaces	01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire <sup>2</sup>	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
R1	RECESSED PANO 2"W 4'L	No	NA	16	Mfr. Spec	45	No	720	<input type="checkbox"/>	<input type="checkbox"/>
R2	RECESSED EQUATION 2X2	No	NA	24	Mfr. Spec	62	No	1,488	<input type="checkbox"/>	<input type="checkbox"/>
R3	RECESSED 6" DOWNLIGHT	No	NA	18	Mfr. Spec	12	No	216	<input type="checkbox"/>	<input type="checkbox"/>
R4	RECESSED PANO 2"W 6'L	No	NA	24	Mfr. Spec	12	No	288	<input type="checkbox"/>	<input type="checkbox"/>
S1	LED WALL MOUNTED SCORCHE	No	NA	5	Mfr. Spec	10	No	50	<input type="checkbox"/>	<input type="checkbox"/>
C1	LED TAPELIGHT	No	NA	60	Mfr. Spec	1	No	60	<input type="checkbox"/>	<input type="checkbox"/>
Total Designated Watts: CONDITIONED SPACES									2,822	

<sup>1</sup>FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75%/80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.  
<sup>2</sup>Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS  
 This section does not apply to this project.

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STATE OF CALIFORNIA  
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-474-E  
 Project Name: GWC Presidential Suite TI Report Page: (Page 4 of 9)  
 Project Address: 15744 Goldenwest Street, Huntington Beach, CA 92647 Date Prepared: 2025-10-22 17:33:37

H. INDOOR LIGHTING CONTROLS (Not including PAFs)											
This table includes lighting controls for conditioned and unconditioned spaces.											
Building Level Controls											
01			02			03			Field Inspector		
Mandatory Demand Response 110.12(c)			Shut-off controls 130.1(c) / 160.5(b)4C			Pass			Fail		
NA < 4,000W subject to multilevel						See Area/Space Level Controls					
Area Level Controls											
04	05	06	07	08	09	10	11	12	Field Inspector		
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting Systems 140.6(a)12 / 160.5(b)4D	Interlocked Systems 70.2(e)2A		Pass	Fail	
WORK ROOM 207	Office	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>		
OFFICE 206	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>		
CONFERENCE 209	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>		
CORRIDOR 208	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>		
FOUNDATION DIRECTOR 210	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>		
WAITING 205	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>		
OPEN OFFICE 211	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>		
V.PJ 204	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>		

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 333762-1025-0003  
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STATE OF CALIFORNIA  
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-474-E  
 Project Name: GWC Presidential Suite TI Report Page: (Page 5 of 9)  
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)											
V.P.S. 203	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>		
V.P.A.S. 202	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>		
PRESIDENT 201	Office	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	<input type="checkbox"/>	<input type="checkbox"/>		
Plan Sheet Showing Daylit Zones: E211											

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.						
Area Description	Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft <sup>2</sup> )	04 Area (ft <sup>2</sup> )	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment Area Category PAF	
WORK ROOM 207	Office	0.6	280	168	No	No
OFFICE 206	Office	0.6	430	258	No	No
CONFERENCE 209	Office	0.6	430	258	No	No
CORRIDOR 208	Office	0.6	243	145.8	No	No
FOUNDATION DIRECTOR 210	Office	0.6	260	156	No	No
WAITING 205	Office	0.6	430	258	No	No
OPEN OFFICE 211	Office	0.6	1,353	811.8	No	No
V.PJ 204	Office	0.6	288	172.8	No	No
V.P.S. 203	Office	0.6	295	177	No	No
V.P.A.S. 202	Office	0.6	296	177.6	No	No
PRESIDENT 201	Office	0.6	382	229.2	No	No

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 Project Address: 15744 Goldenwest Street, Huntington Beach, CA 92647 Date Prepared: 2025-10-22 17:33:37

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS			
TOTALS:	4,887	2,932.2	See Tables I, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM  
 This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE  
 This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY  
 This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING  
 This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS  
 This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE  
 This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))  
 This section does not apply to this project.

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Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS  
 This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS  
 This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)  
 This section does not apply to this project.

T. DWELLING UNIT LIGHTING  
 This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION  
 Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title  
 NRCC-474-E - Must be submitted for all buildings

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STATE OF CALIFORNIA  
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-474-E  
 Project Name: GWC Presidential Suite TI Report Page: (Page 8 of 9)  
 Project Address: 15744 Goldenwest Street, Huntington Beach, CA 92647 Date Prepared: 2025-10-22 17:33:37

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <a href="http://www.energy.ca.gov/html24/atttcp/providers.html">http://www.energy.ca.gov/html24/atttcp/providers.html</a>	
Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	WORK ROOM 207; OFFICE 206; CONFERENCE 209; CORRIDOR 208; FOUNDATION DIRECTOR 210; WAITING 205; OPEN OFFICE 211; V.PJ 204; V.P.S. 203; V.P.A.S. 202; PRESIDENT 201
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	OFFICE 206; CONFERENCE 209; CORRIDOR 208; FOUNDATION DIRECTOR 210; WAITING 205; OPEN OFFICE 211; V.PJ 204; V.P.S. 203; V.P.A.S. 202; PRESIDENT 201

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 Schema Version: rev 20220101 Report Generated: 2025-10-22 17:33:37

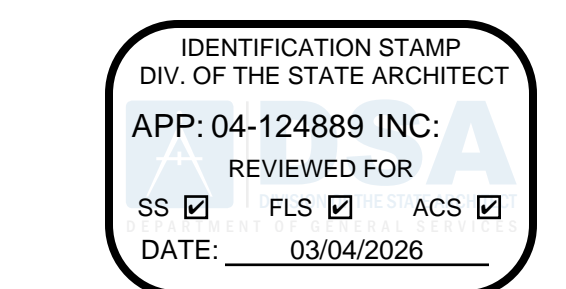
STATE OF CALIFORNIA  
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-474-E  
 Project Name: GWC Presidential Suite TI Report Page: (Page 9 of 9)  
 Project Address: 15744 Goldenwest Street, Huntington Beach, CA 92647 Date Prepared: 2025-10-22 17:33:37

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT  
 I certify that this Certificate of Compliance documentation is accurate and complete.  
 Documentation Author Name: Kaylana Nickels  
 Company: P2S INC  
 Address: 4600 La Jolla Village Drive #600  
 City/State/Zip: San Diego/CA/92122  
 Signature Date: 10/23/2025  
 CSCE/HSIS Certification Identification (if applicable):  
 Phone: 619-467-4920

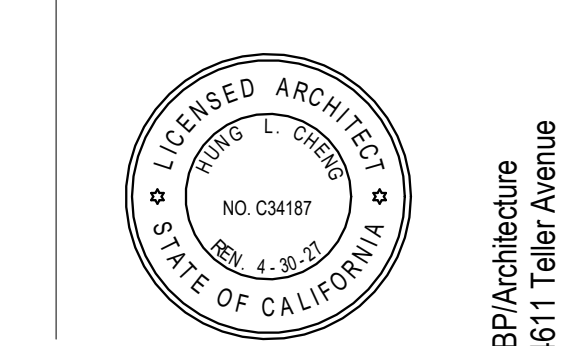
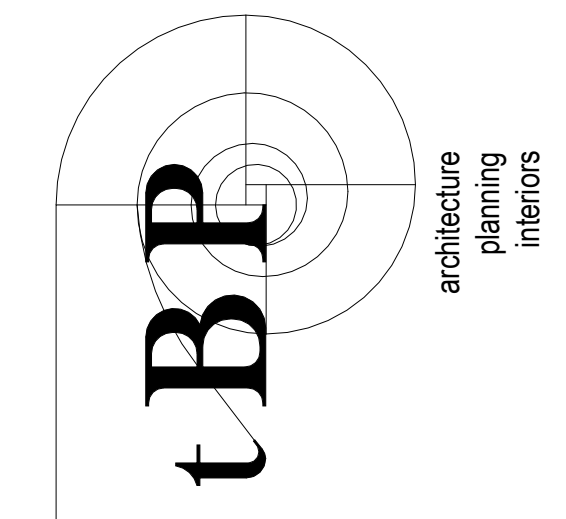
RESPONSIBLE PERSON'S DECLARATION STATEMENT  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
 5. I will ensure that a completed signed copy of this Certificate of Compliance is required to be included with the documentation to the building inspector during construction and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation to the building owner at occupancy.

Responsible Designer Name: Kaylana Nickels  
 Address: 4600 La Jolla Village Drive #600  
 City/State/Zip: San Diego/CA/92122  
 Date Signed: 10/23/2025  
 License: 62296  
 Phone: 619-619-2347

Generated Date/Time: Documentation Software: Energy Code Ace  
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DIVISION OF THE STATE ARCHITECT  
 10920 VIA FRONTERA, SUITE 300



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 Long Beach // Irvine // Los Angeles  
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Golden West College-  
 Student Services Center  
 EXECUTIVE OFFICE  
 15744 Goldenwest Street  
 Huntington Beach, CA 92647  
 Coast Community College District- Golden West College

IBP project number: IBP No: 21182.00  
 file name:  
 drawn by: K Nickels checked by: M Lindarto  
 date: 10/06/2025 1:26:03PM 11/08/24 AM  
 rev. date: description:  
 10/06/25 50% CD  
 10/27/25 100% CD  
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drawing title:  
 TITLE 24 COMPLIANCE FORMS  
 drawing no.:

E701



LOW VOLTAGE RESPONSIBILITY MATRIX - TECHNOLOGY						
NO.	TECH	ITEM	OFOI	OFCI	CFCI	REMARKS
1	IT	TELECOM ROOM FITOUT			X	
2	IT	CONDUITS, BACKBOXES, AND CONTAINMENT (WALL/CEILING/FLOOR)			X	
3	IT	HORIZONTAL CABLE MANAGEMENT & CABLE TRAY			X	
4	IT	HORIZONTAL CABLE MANAGEMENT			X	
5	IT	FIBER OPTIC PATCHCORDS			X	
6	IT	CAT6A PATCHCORDS			X	
7	IT	NETWORK SWITCHING AND ACTIVE EQUIPMENT	X			
8	IT	WORKSTATIONS, SERVERS, AND COMPUTER PERIPHERALS	X			
9	IT	UNINTERRUPTIBLE POWER SUPPLIES (UPS)			X	
10	IT	EMERGENCY / BLUE PHONE / INTERCOMS			X	
11	IT	WIRELESS ACCESS POINTS (WAP)	X			
20	AV	MOUNTS FOR PROJECTORS, LARGE DISPLAYS AND VIDEO WALL			X	
21	AV	AUDIOVISUAL CABLING			X	
22	AV	ASSISTIVE LISTENING SYSTEMS			X	
23	AV	CABLE CUBBY IN TABLES OR CASEWORK			X	
24	AV	ACTIVE AUDIOVISUAL SYSTEM EQUIPMENT			X	
25	AV	DEDICATED PRESENTATION PC / INSTRUCTORS PC	X			
26	AV	INSTRUCTOR STATIONS			X	
27	AV	AV EQUIPMENT RACKS & CABINETS			X	
28	AV	FIRE ALARM TIE IN CABLE FROM AV & ACCESS CONTROL PANEL TO FIRE ALARM RELAY IN TELECOM ROOM			X	
30	SEC	ELECTRIFIED DOOR HARDWARE			X	
31	SEC	CARD READERS & WIRELESS DOOR READERS			X	
32	SEC	CARD READER LICENSES			X	
33	SEC	SOFTWARE AND SERVER			X	
34	SEC	ACCESS CREDENTIAL CARDS	X			
35	SEC	ACCESS CONTROL WALL ENCLOSURES			X	
36	SEC	BADGING SOFTWARE, CAMERA, AND BADGING PRINTER	X			IF APPLICABLE
37	SEC	PUSH-PLATES			X	REFER TO DIV. 8 SPECIFIER
38	SEC	CAMERAS, CAMERA HOUSINGS, MOUNTING ACCESSORIES, AND PROGRAMMING			X	
39	SEC	NVR, UPS, AND CAMERA RECORDING LICENSES			X	
40	SEC	VIDEO MANAGEMENT SYSTEM SOFTWARE AND LICENSES	X			

LOW VOLTAGE LEGEND	
ABBREVIATION	DEFINITION
CFCI	CONTRACTOR FURNISHED & INSTALLED
OFCI	OWNER FURNISHED & INSTALLED

Operable parts of all accessible elements shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds max. **(CBC Sec. 11B-205 and 11B-309.4)**  
 Operable parts of all accessible elements shall be placed within accessible reach ranges per the following details:

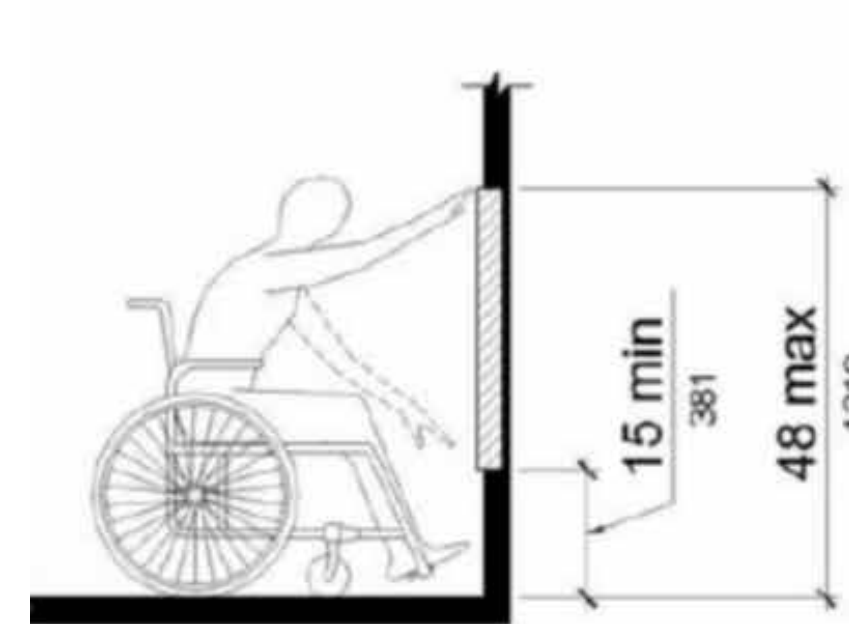


FIGURE 11B-308.2.1  
UNOBSTRUCTED FORWARD REACH

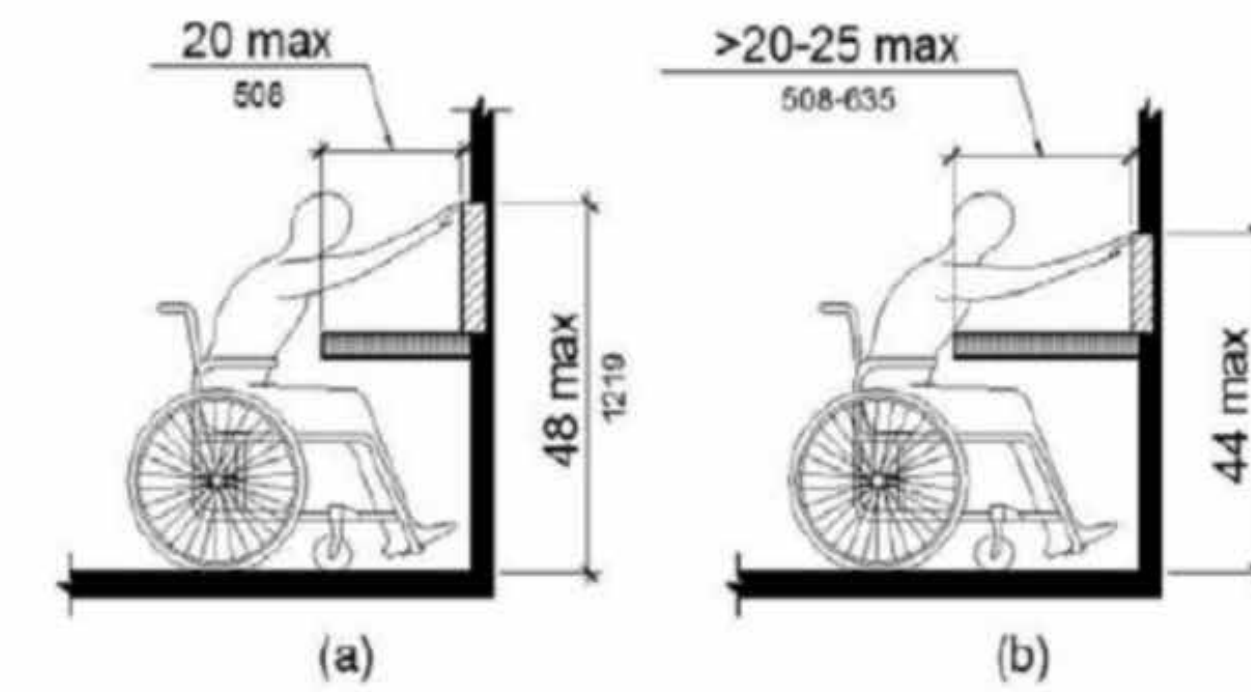


FIGURE 11B-308.2.2  
OBSTRUCTED HIGH FORWARD REACH

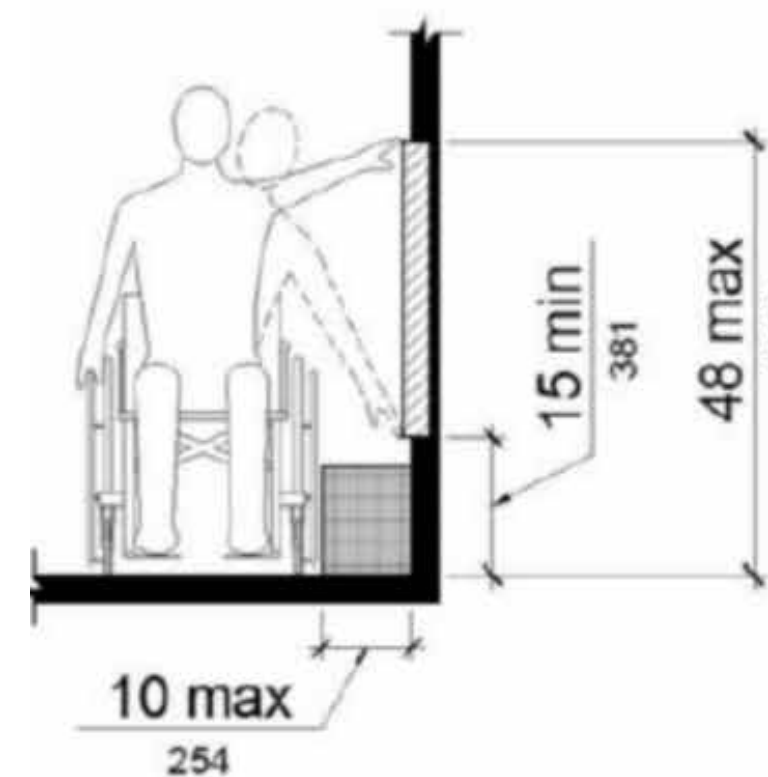


FIGURE 11B-308.3.1  
UNOBSTRUCTED SIDE REACH

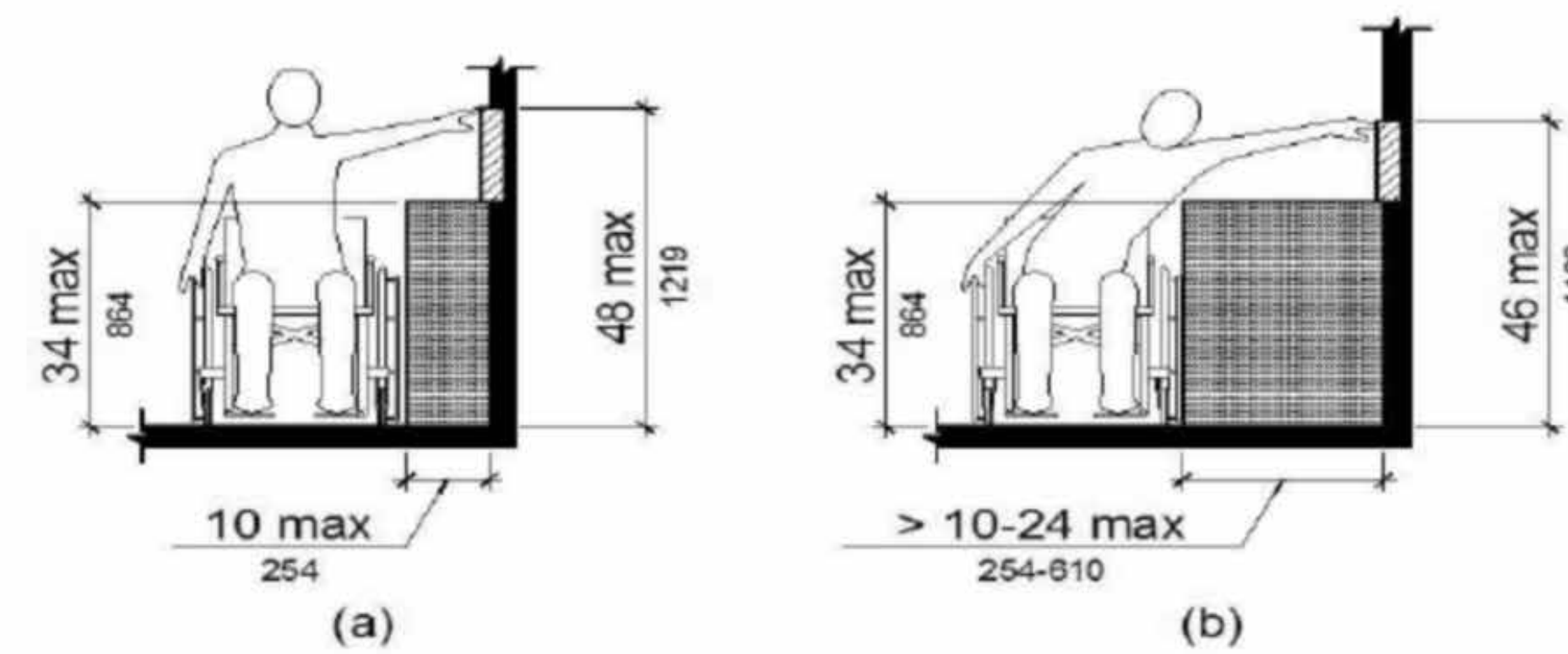


FIGURE 11B-308.3.2  
OBSTRUCTED HIGH SIDE REACH

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-124889 INC.  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 03/04/2026

DIVISION OF THE STATE ARCHITECT  
 10920 VIA FRONTERA, SUITE 300

agency

**tBP**  
 architecture  
 planning  
 interiors

LICENSED ARCHITECT  
 ROBERT L. CHERRY  
 NO. 43187  
 STATE OF CALIFORNIA

IBP/Architecture  
 4511 Teller Avenue  
 Newport Beach, CA 92660  
 ph: 949.673.0300 fx: 949.732.3855

**p2s ENG**

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REGISTERED PROFESSIONAL ENGINEER  
 CHARLES W. HARRIS  
 STATE OF CALIFORNIA  
 LICENSE NO. 45187  
 SIGNED: 01/26/2026  
 consultant

Golden West College-  
 Student Services Center  
**EXECUTIVE OFFICE**  
 15744 Goldenwest Street  
 Huntington Beach, CA 92647

Coast Community College District- Golden West College

owner

IBP project number: IBP No: 21182.00

file name:

drawn by: Author checked by: Checker

date: 10/06/2025 1/26/2026 11:29:13 AM

rev. date. description:

10/06/25 50% CD

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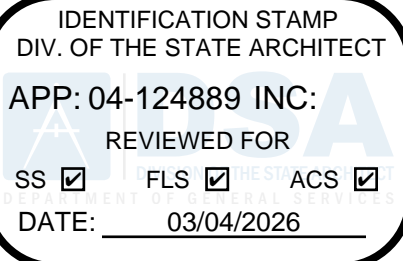
RESPONSIBILITY MATRIX

drawing no.:

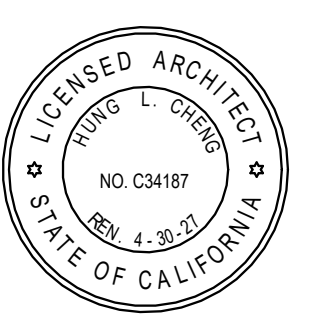
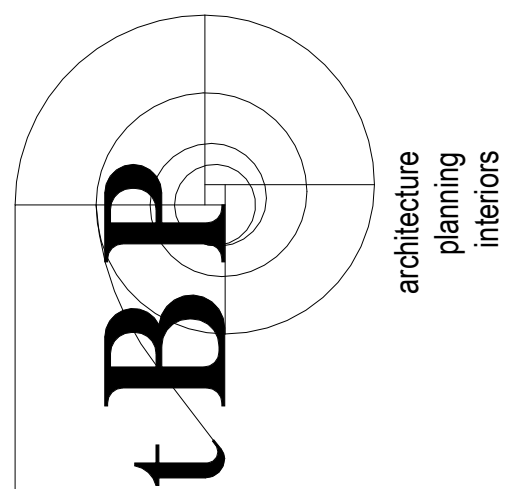
T002

### SECURITY CAMERA SCHEDULE

CAMERA ID	REF. SHEET #	MOUNTING TYPE	REF. BDF/MDF/ADF	DETAIL REFERENCE	NOTES
2ND FLR					
SC-1200	T302	CEILING SURFACE		3/T601	
SC-1201	T302	CEILING SURFACE		3/T601	
SC-1203	T302	CEILING SURFACE		3/T601	
SC-1204	T302	CEILING SURFACE		3/T601	
SC-1205	T302	CEILING SURFACE		3/T601	
SC-1206	T301	WALL SURFACE		4/T601	
SC-1206	T301	WALL SURFACE		4/T601	



DIVISION OF THE STATE ARCHITECT  
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**Golden West College-  
Student Services Center  
EXECUTIVE OFFICE**  
15744 Goldenwest Street  
Huntington Beach, CA 92647

Coast Community College District- Golden West College

tBP project number: tBP No: 21182.00

file name:

drawn by: Author checked by: Checker

date: 10/06/2025 1/26/2026 11:29:13 AM

rev.	date:	description:
	10/06/25	50% CD
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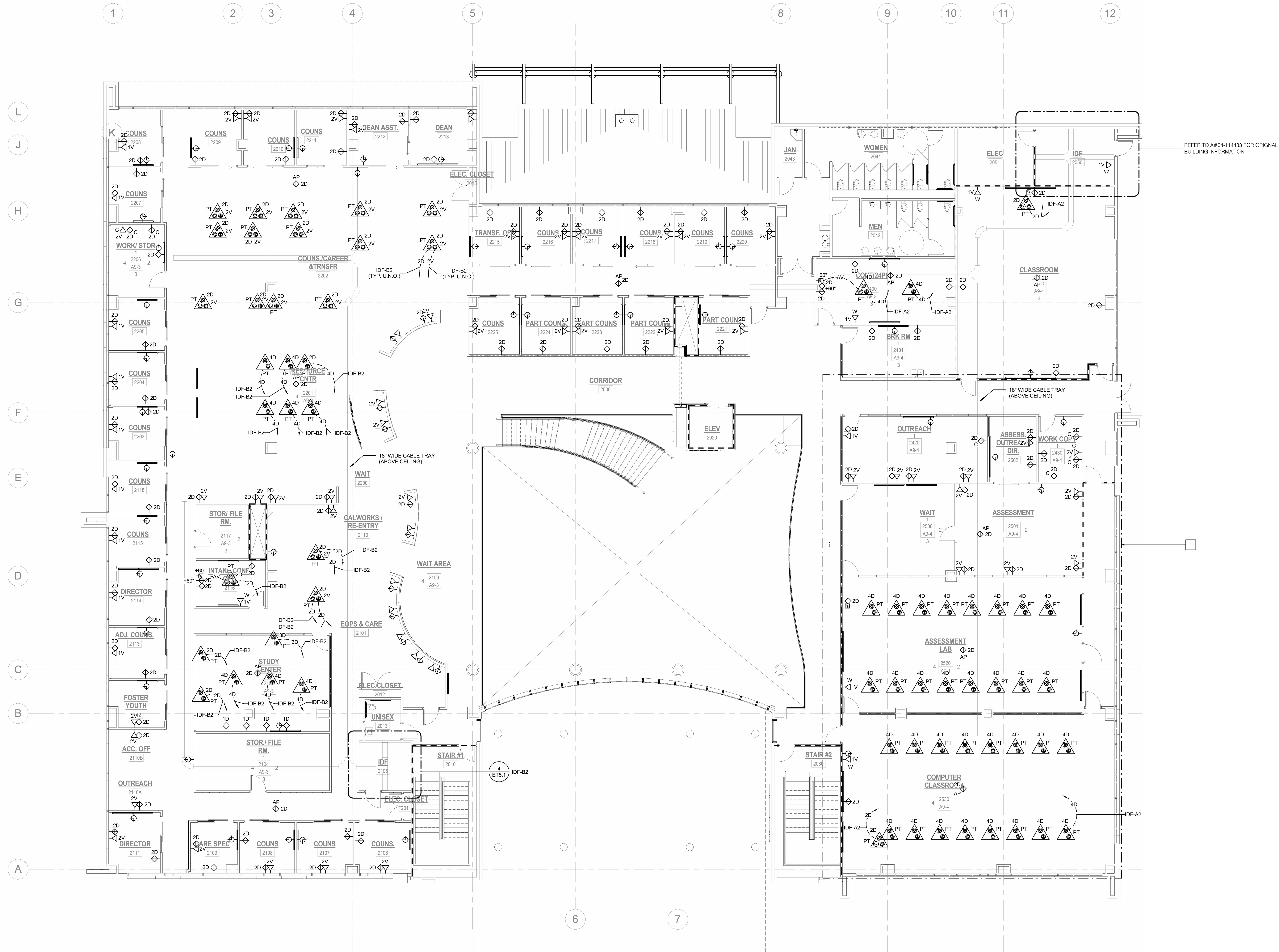
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SCHEDULES

drawing no.:

T003

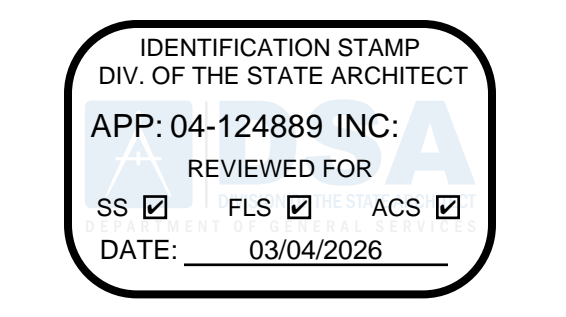
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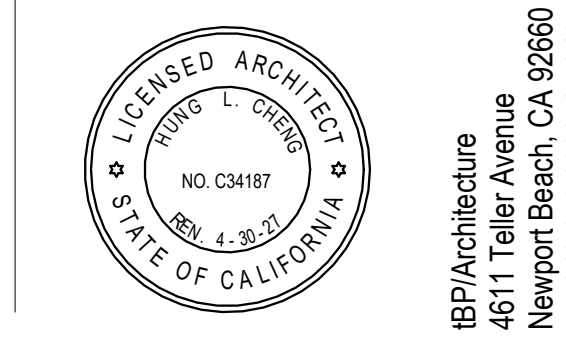
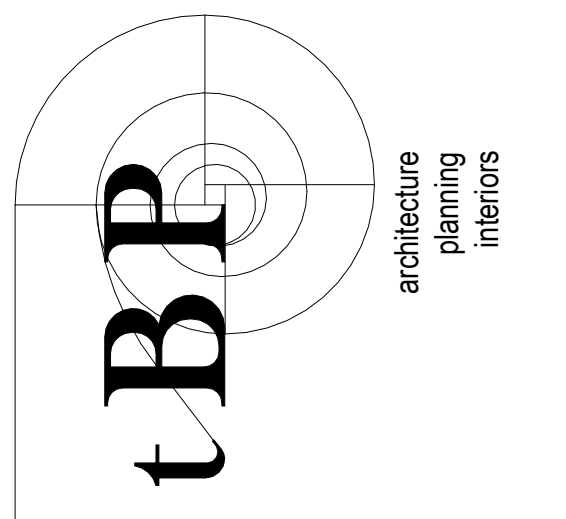
**NOTES**

1 CONSTRUCTION CONTRACTOR TO REMOVE ALL ACTIVE ELECTRONIC EQUIPMENT WITHIN THIS DESIGNATED AREA FOR PROJECT WORK PRIOR TO DEMOLITION. PROVIDE ALL REMOVED EQUIPMENT TO OWNER FOR E-WASTE OR RE-DEPLOYMENT. ALL CATEGORY DATA CABLING IN THIS AREA TO BE REMOVED FROM FLOOR, WALL, AND CEILING AREAS AND DISCONNECTED FROM THE PATCH PANEL IN THE EXISTING TELECOM IDF #2050. CABLING TO BE DISPOSED OF PER PROJECT GUIDELINES.

REFER TO A#04-114433 FOR ORIGINAL BUILDING INFORMATION.



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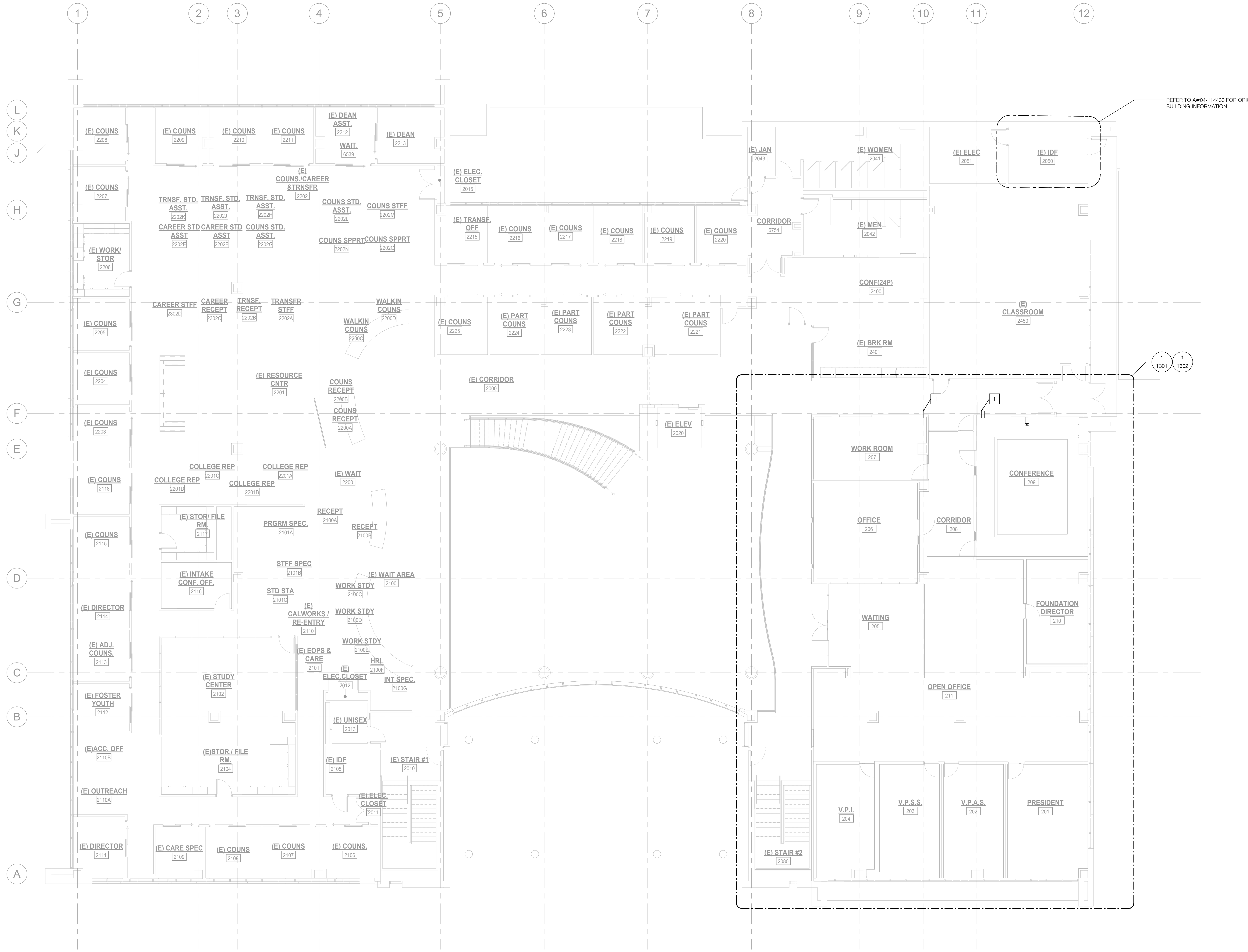
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file name:	
drawn by: Author	checked by: Checker
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drawing title:  
**DEMOLITION 2ND FLOOR  
PLAN**

drawing no.:  
**T101**

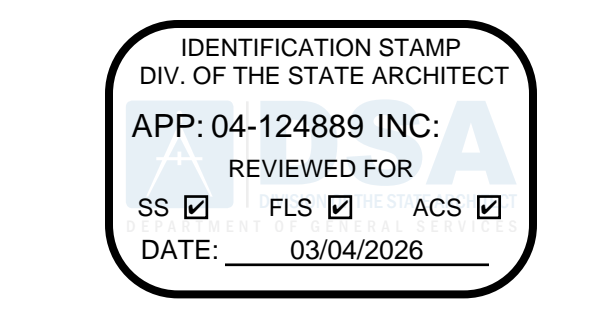
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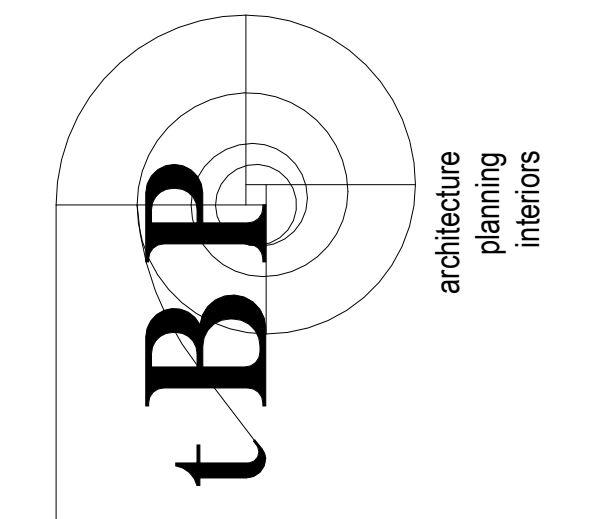
**NOTES**  
1. PROVIDE (2) NEW 3" CONDUIT SLEEVES AT ±11 FT. AFF TO PROVIDE CABLING FEED BACK TO THE EXISTING TELECOM IDF ROOM #2050.

**GENERAL NOTES**  
1. ALL DATA FROM THE NEW RENOVATION SCOPE IS TO BE RUN BACK TO THE EXISTING TELECOM ROOM #2050 AND TERMINATED ON NEW PATCH PANELS. SECURITY CABLING AND TELECOM CABLING TO HAVE DISCRETE PATCH PANELS TO PROVIDE SEPARATE MANAGEMENT OF THOSE SYSTEMS CABLING. CABLING TO BE ROUTED VIA J-HOOKS THROUGH CEILING OF EXISTING CLASSROOM #2450. CONTRACTOR TO COORDINATE ALL WORK WITH CLASSROOM AND BUILDING SCHEDULE TO MINIMIZE DISRUPTIONS TO OPERATIONS.

REFER TO A#04-114433 FOR ORIGINAL BUILDING INFORMATION.



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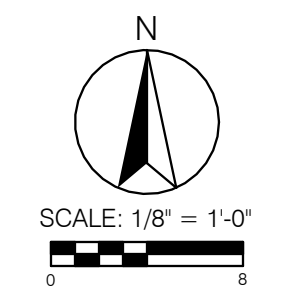
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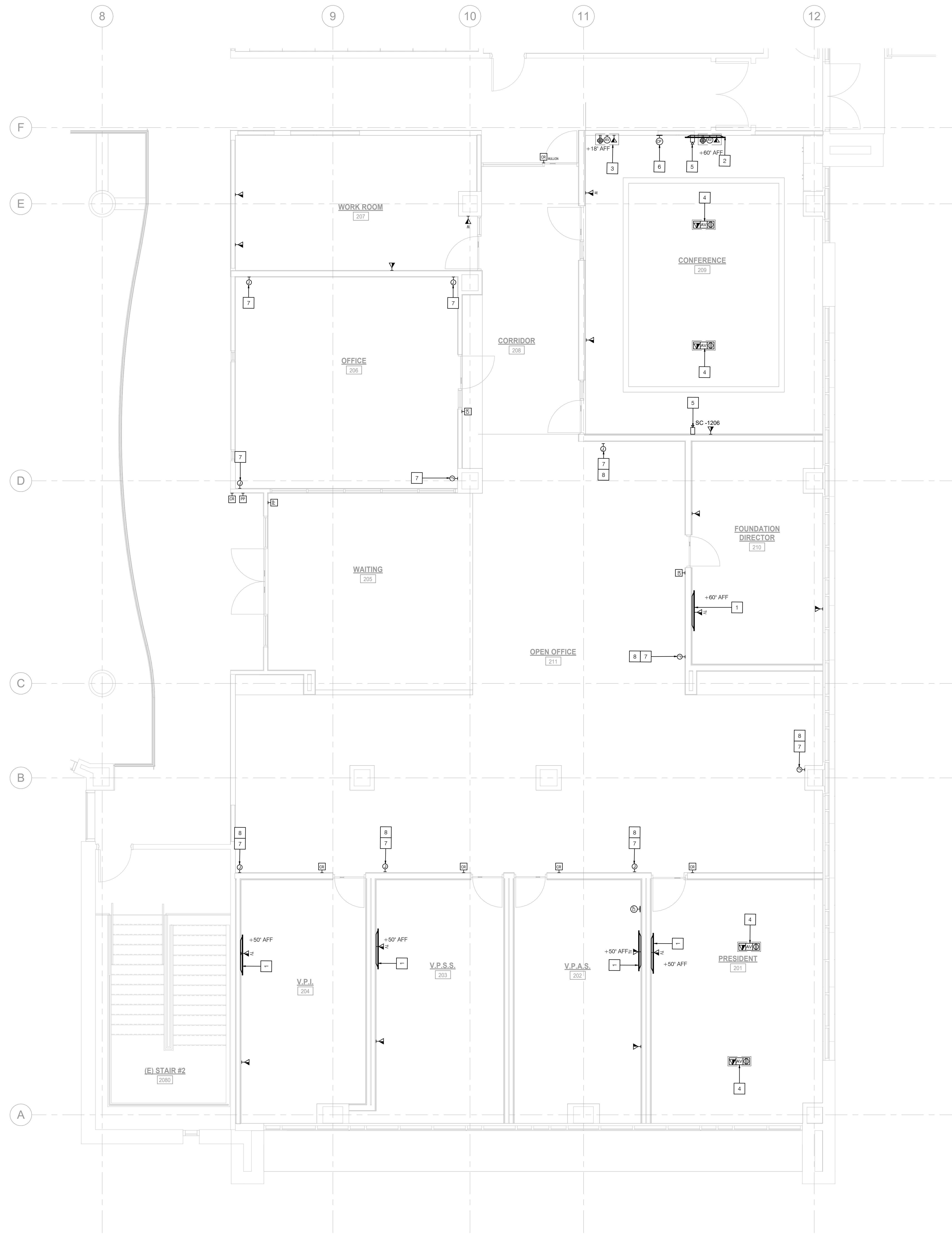
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drawing title:  
**OVERALL 2ND FLOOR  
PLAN**

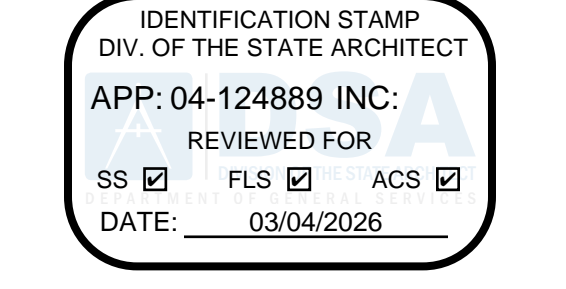
drawing no.:  
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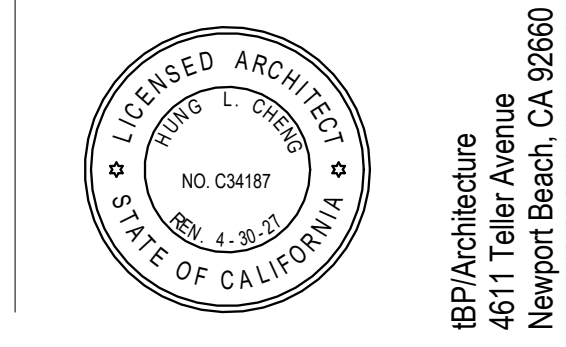
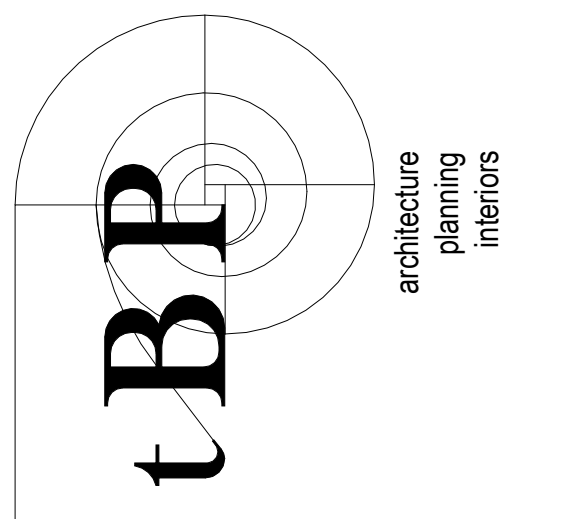


**NOTES**

- 1 50" FLAT PANEL MONITOR.
- 2 90" FLAT PANEL MONITOR.
- 3 AV EQUIPMENT RACK WITHIN ROOM CREDENZA.
- 4 8" COMBINATION (AV/IT/PWR) POKE-THROUGH.
- 5 VIDEO CONFERENCE CAMERA.
- 6 WALL CONTROL PANEL.
- 7 PROVIDE 20' SERVICE WHIP OF (2) CAT6A CABLES TO BE ROUTED THROUGH FUTURE SYSTEM FURNITURE. COIL AND PROTECT IN PLACE FOR FUTURE INSTALLATION. CONTRACTOR TO ROUTE, INSTALL & TERMINATE THE CABLES (AND TEST PER SPECIFICATION) ON TWO CAT6A JACKS WITHIN SYSTEM FURNITURE. COORDINATE FINAL LOCATION OF THE ACTUAL DATA JACK LOCATION (DATA SYMBOL 'F' FOR FURNITURE FEED) WITH ARCHITECT FOR FIELD POSITIONING WITHIN FINAL FURNITURE CONFIGURATION.
- 8 PROVIDE 20' SERVICE CABLE WHIP TO BE ROUTED THROUGH FUTURE SYSTEM FURNITURE FOR UNDER-DESK DRESS BUTTON. COIL AND PROTECT IN PLACE FOR FUTURE INSTALLATION. CONTRACTOR TO ROUTE, INSTALL & TERMINATE THE CABLES (AND TEST PER SPECIFICATION) WITHIN SYSTEM FURNITURE PER THE TYPICAL CIRCLE-'D' SYMBOL.



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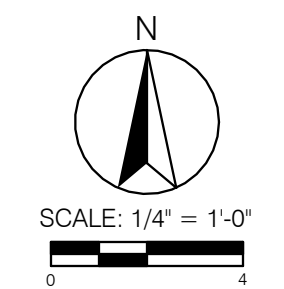
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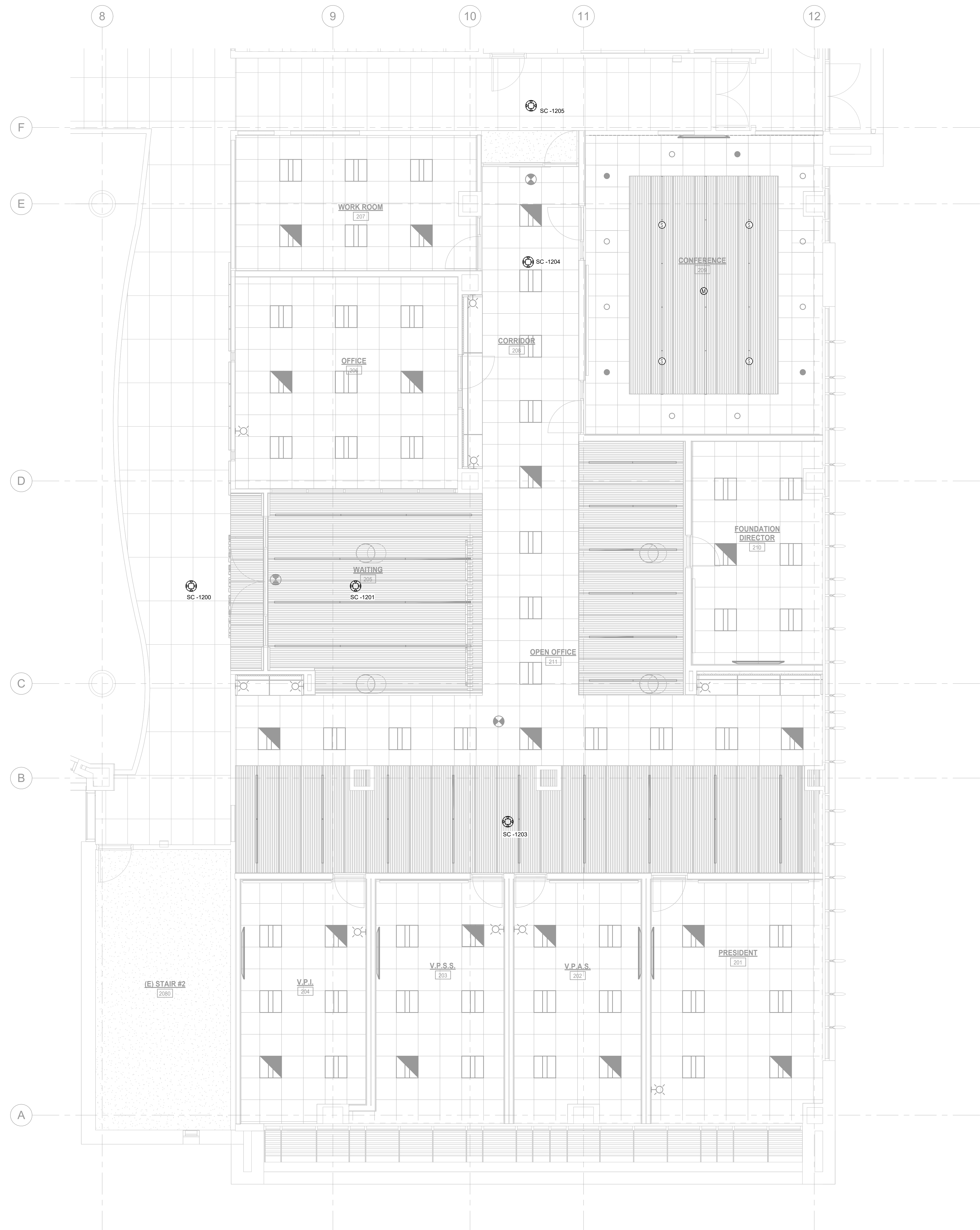
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drawing title:  
**ENLARGED 2ND FLOOR PLAN**

drawing no.:

**T301**

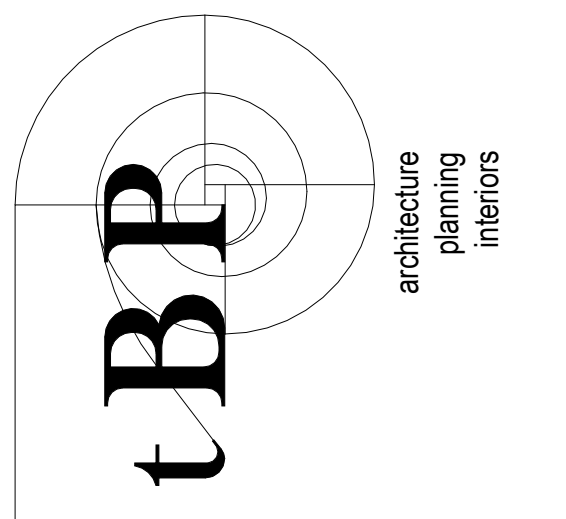




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architect  
 tBP Architecture  
 4511 Teller Avenue  
 Newport Beach, CA 92660  
 ph: 949.673.0300 fx: 949.732.3865

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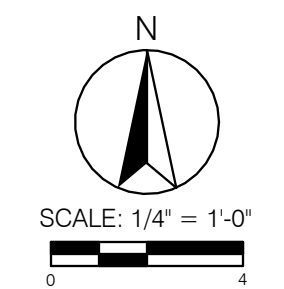
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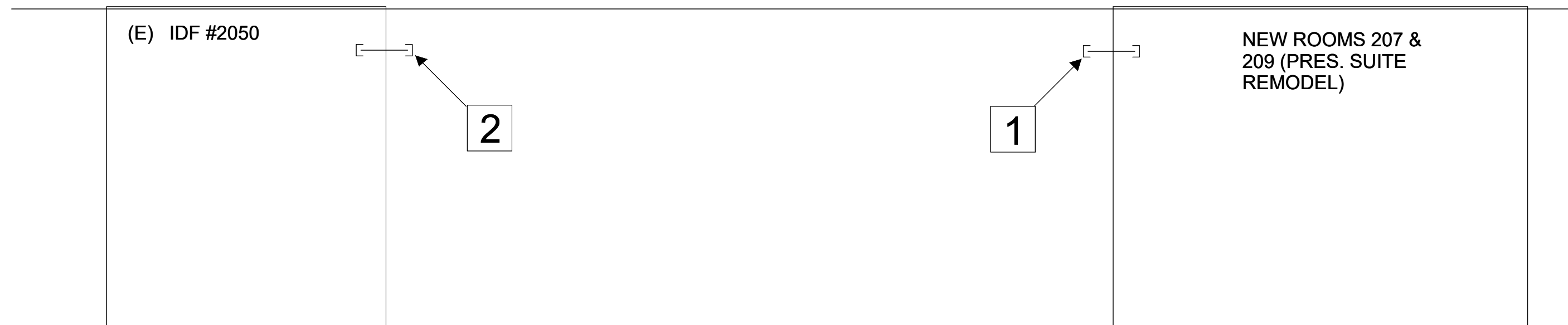
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drawing title:  
**ENLARGED 2ND FLOOR  
 RCP**

drawing no.:  
**T302**



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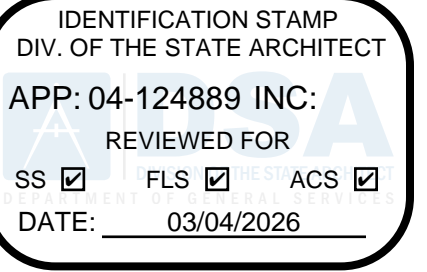
**1 TELECOM INFRASTRUCTURE RISER DIAGRAM**  
SCALE: NONE

**NOTES**

- 1 PROVIDE (2) 3" SLEEVES INTO HALLWAY EACH FROM BOTH ROOMS 207 AND 209. INCLUDE NYLON BUSHINGS AT BOTH ENDS.
- 2 UTILIZE EXISTING CONDUIT SLEEVES INTO (E) IDF #2050 AND PROVIDE FIRE-CALULKING AIR AFTER ALL NEW CABLING IS PULLED IN, TERMINATED, AND TESTED.

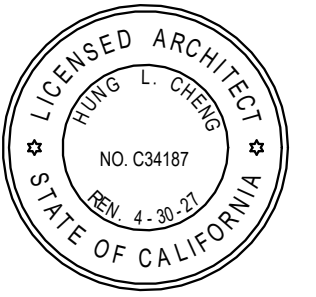
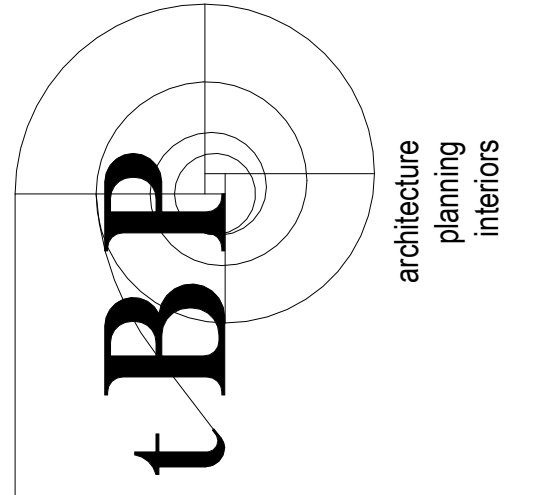
**GENERAL NOTES**

1. ALL NEW CAT6A CABLING FOR PRESIDENT'S SUITE SHALL BE ROUTED BACK TO THE EXISTING TELECOM ROOM # 2050 TO NEW PATCH PANEL(S).
2. NEW CABLING SHALL BE INSTALLED USING J-HOOKS THROUGH OVERHEAD ACCESSIBLE CEILING AREAS (BOTH NEW & EXISTING CEILINGS).
3. CONTRACTOR TO COORDINATE WITH BUILDING ADMINISTRATION AND SCHEDULE FOR ALL CABLING THROUGH EXISTING OCCUPIED SPACE TO MINIMIZE IMPACT TO OCCUPANTS AND BUILDING ACTIVITIES.



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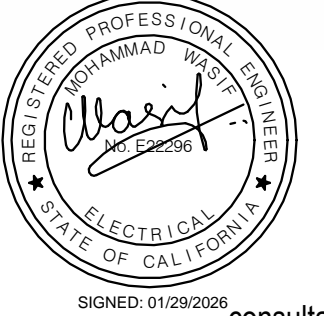
tBP/Architecture  
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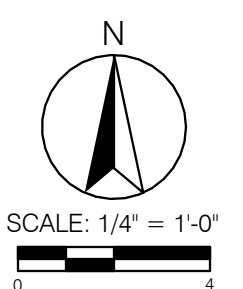
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drawing title:

**COMMUNICATIONS RISER**

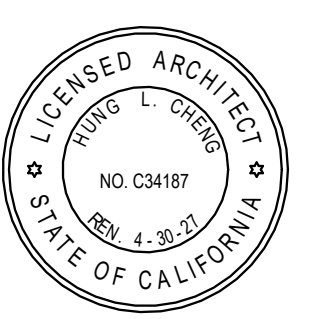
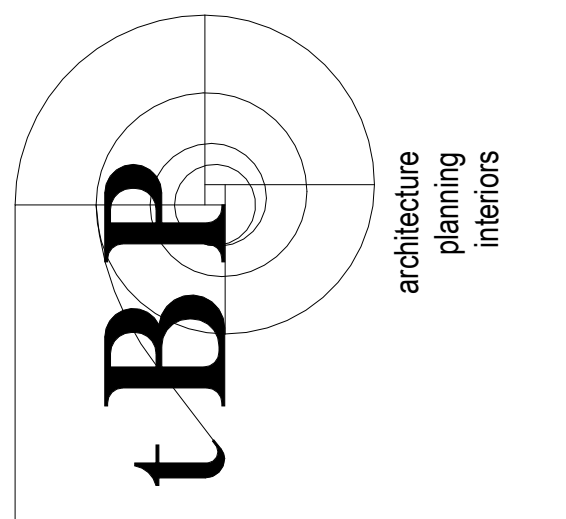
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**T501**



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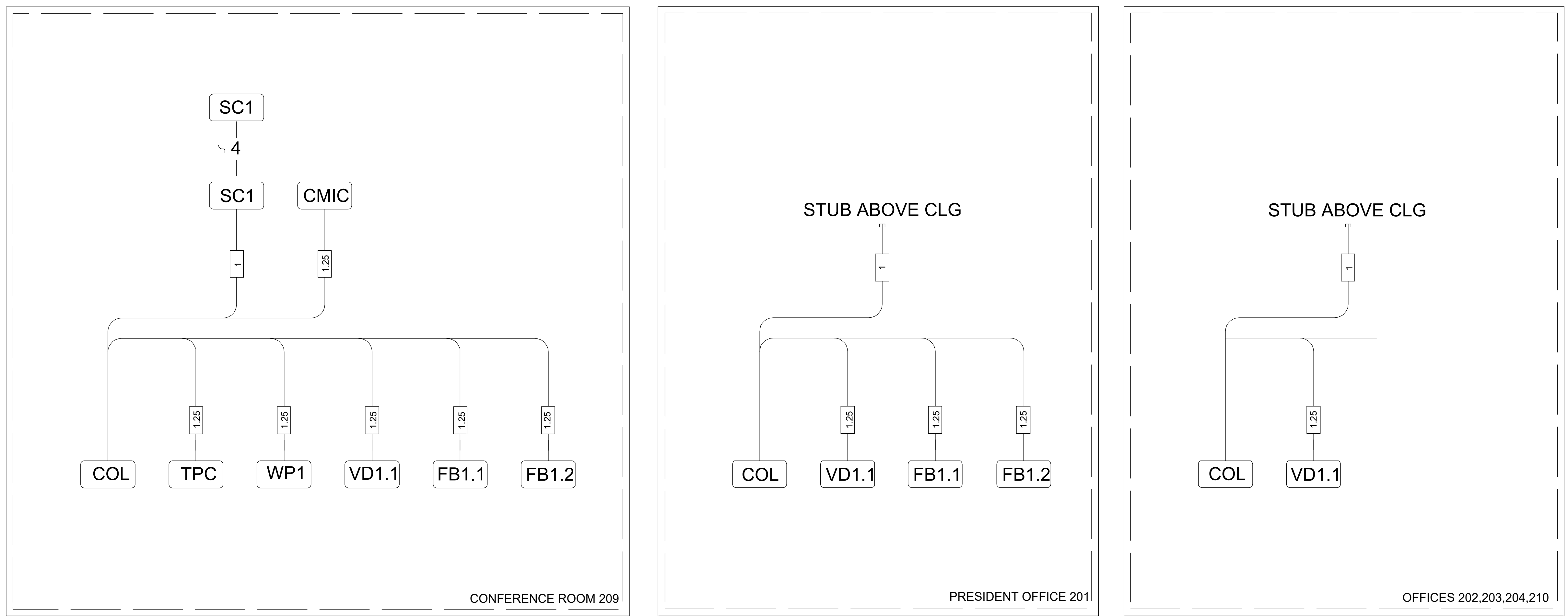
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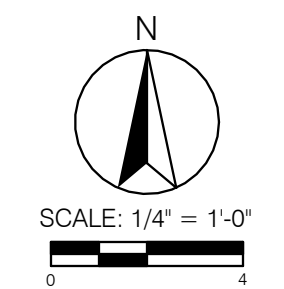
**AUDIOVISUAL SYSTEM DIAGRAMS**

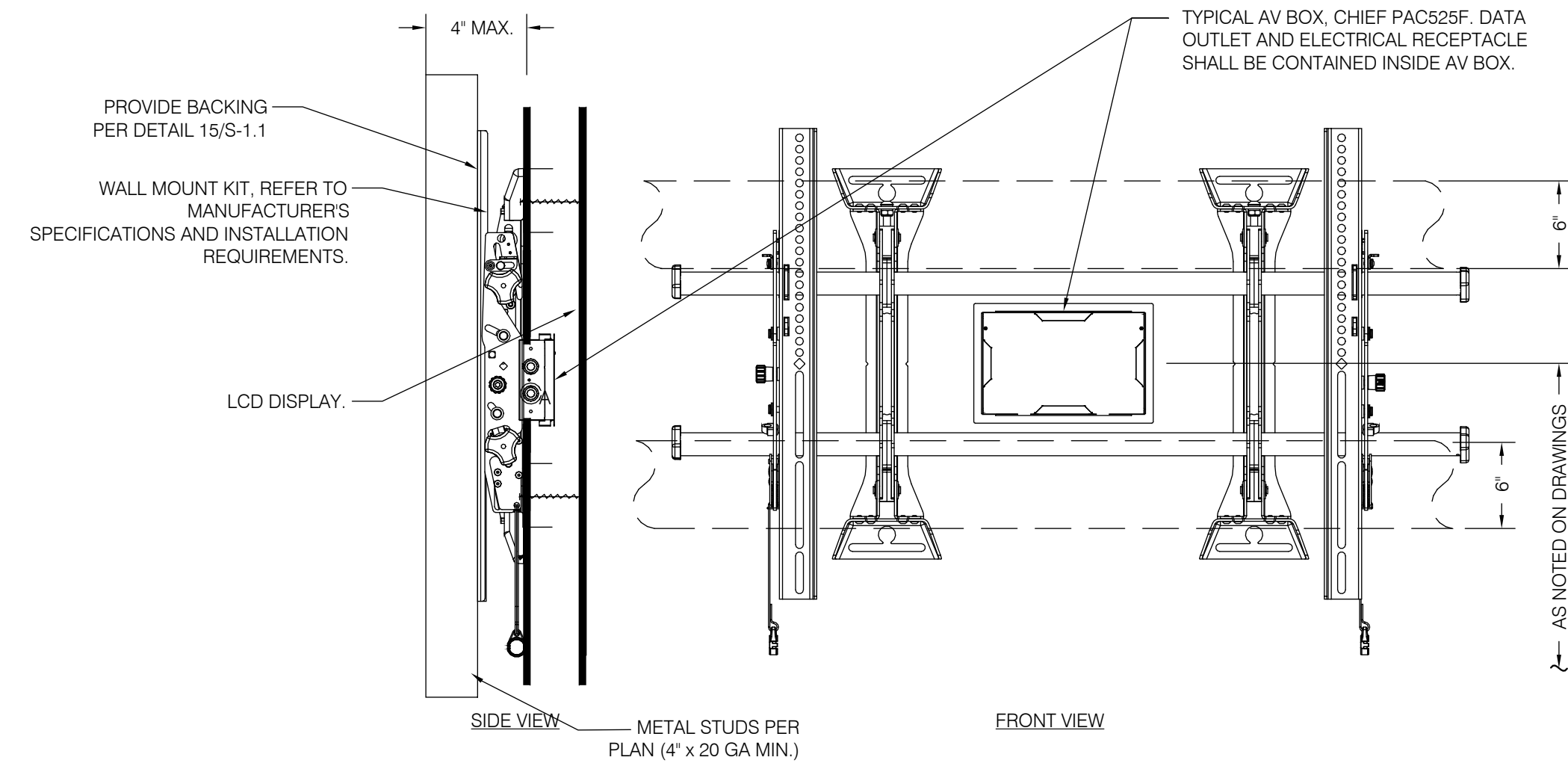
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**1 AUDIOVISUAL SYSTEM DIAGRAM**  
 SCALE: NONE

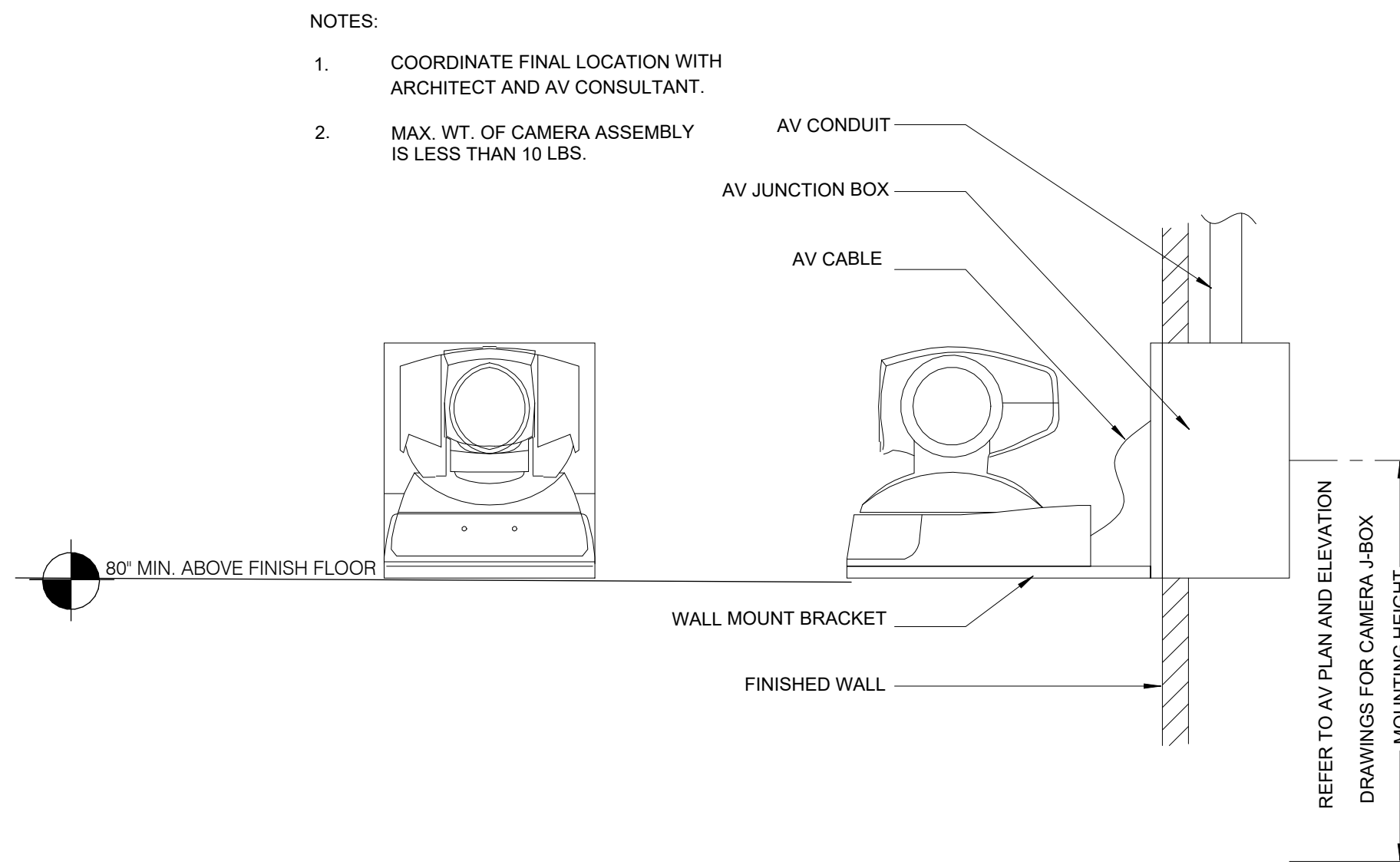




- NOTES:
1. PROVIDE A CLEAR SPACE OF 2\"/>

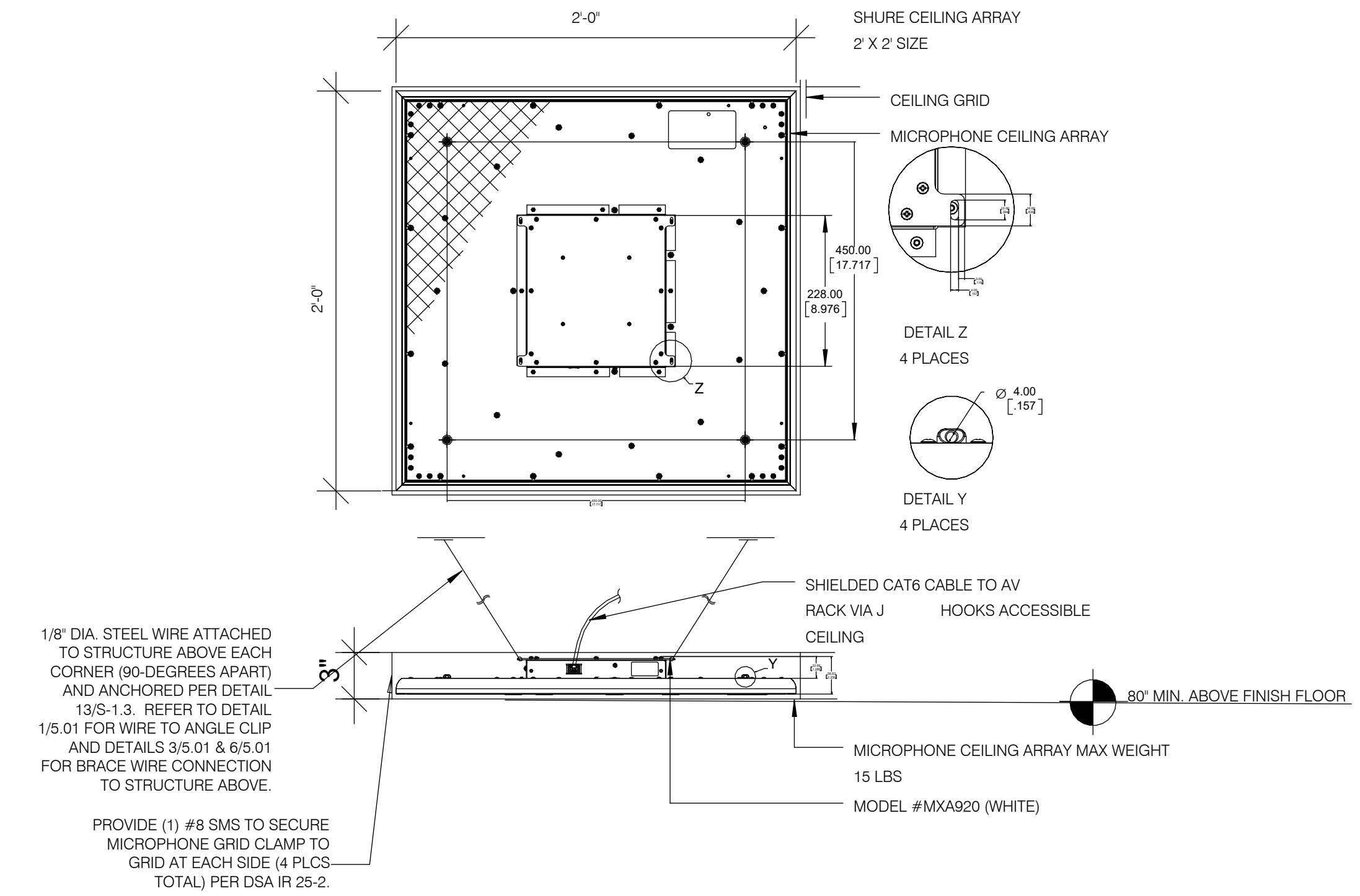
**6** TYPICAL FLAT PANEL MONITOR MOUNTING

SCALE: NONE



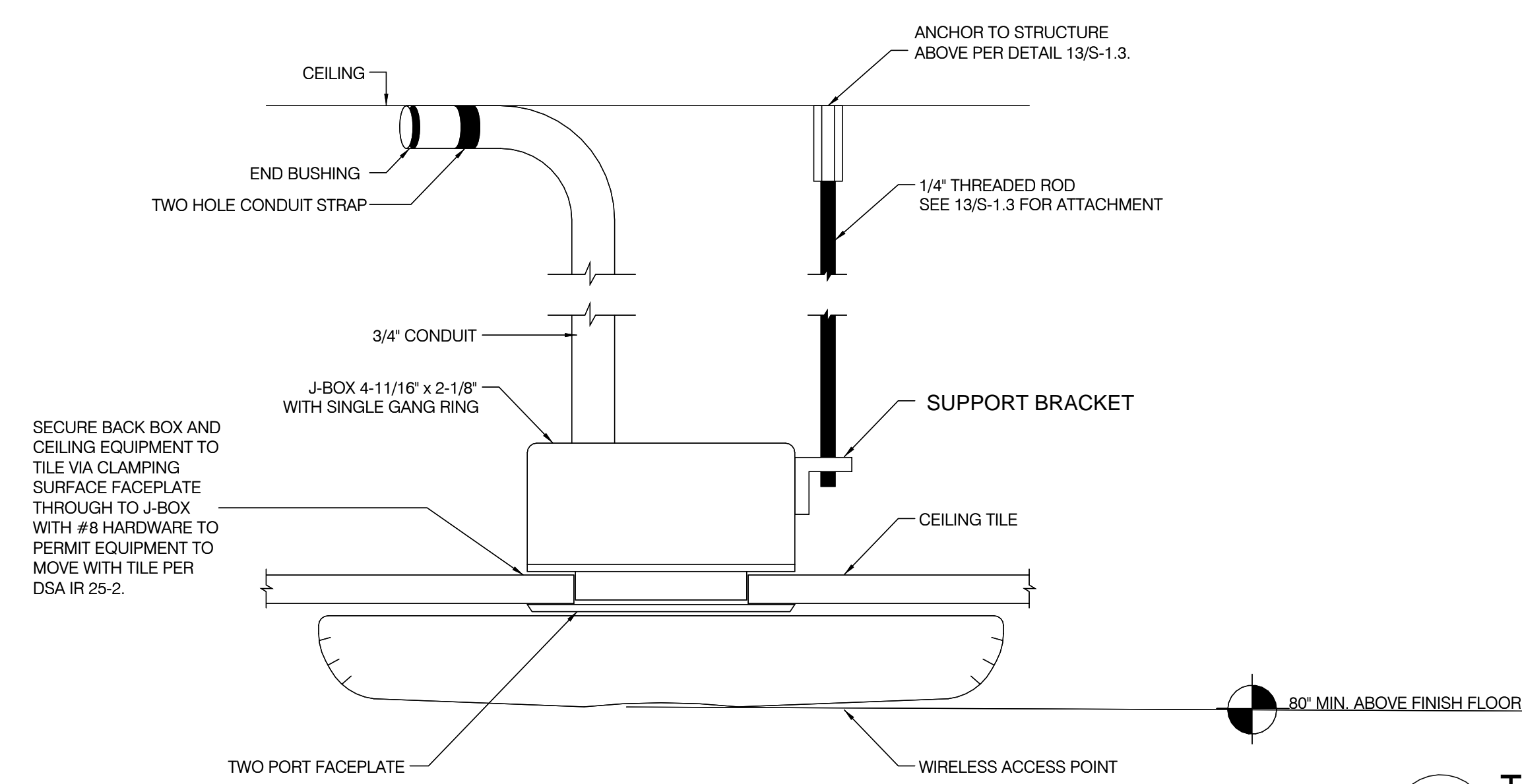
**4** TYPICAL WALL MOUNTED CAMERA

SCALE: NONE



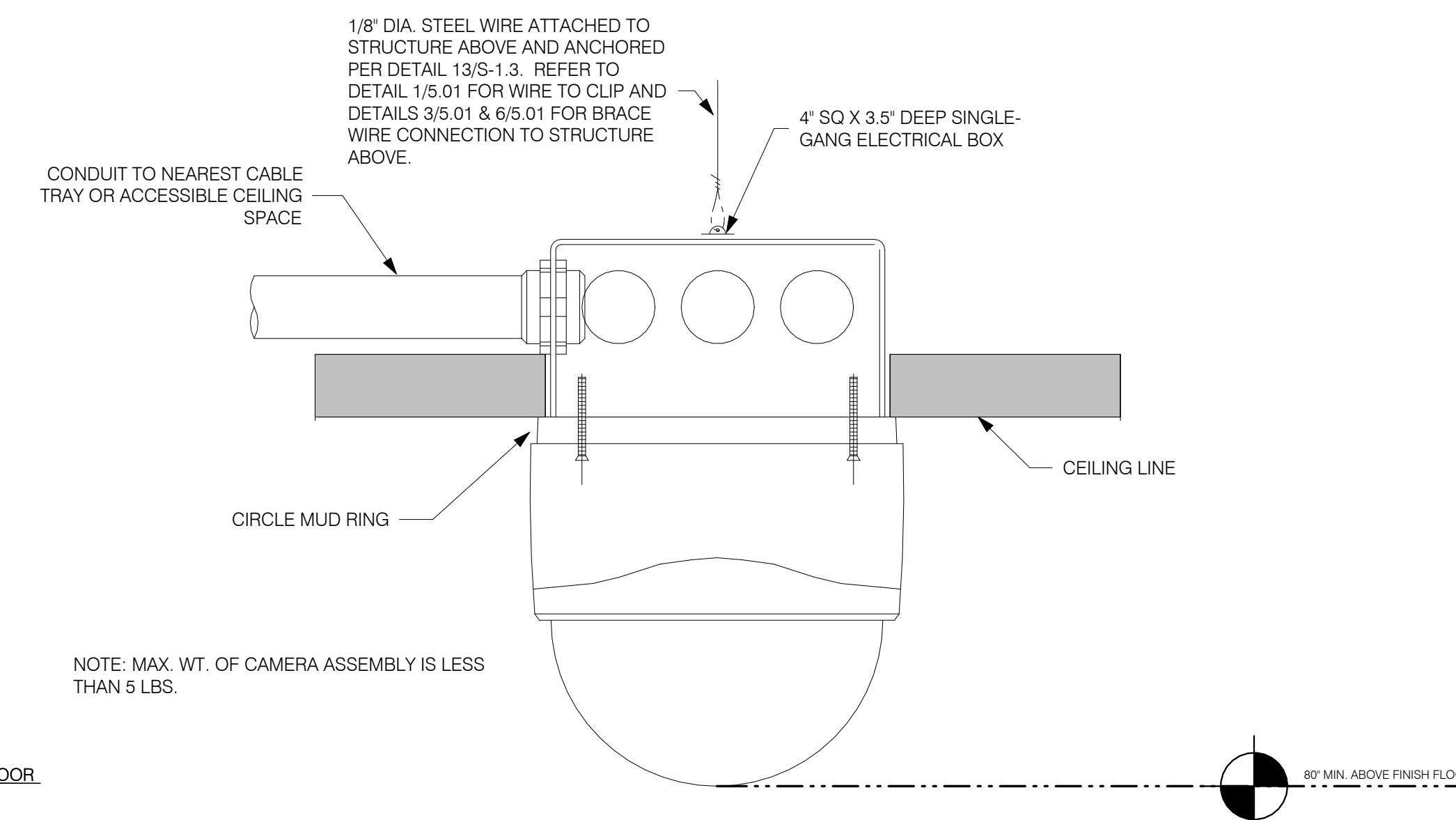
**2** CEILING MICROPHONE ARRAY

SCALE: NONE



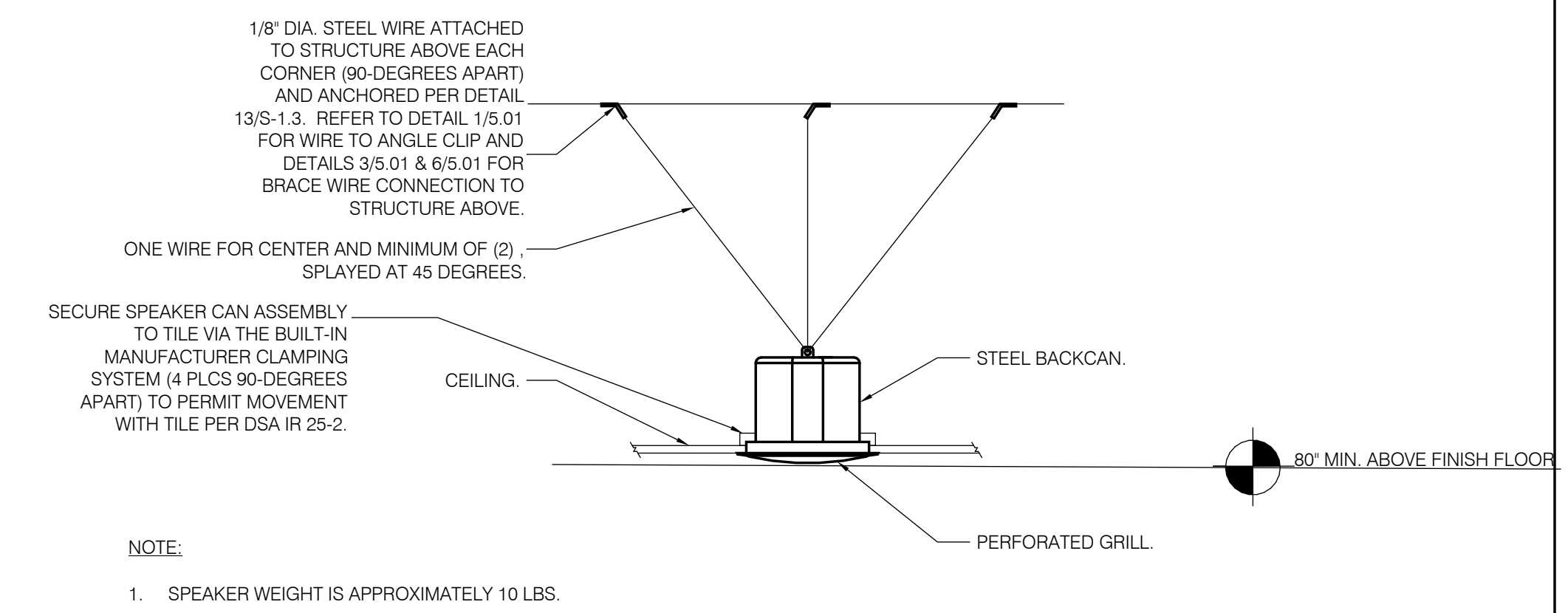
**5** TYPICAL CEILING MOUNTED WIRELESS ACCESS POINT

SCALE: NONE



**3** TYP. DOME CEILING SURFACE MOUNTED CAMERA DETAIL

SCALE: NONE

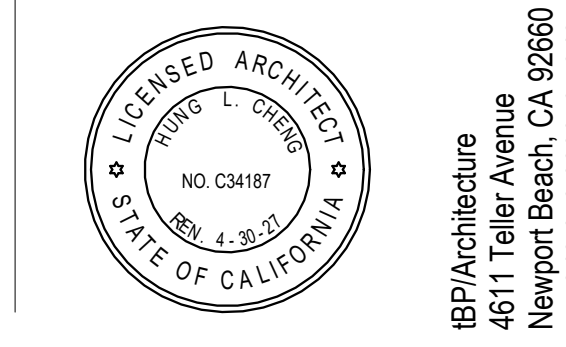
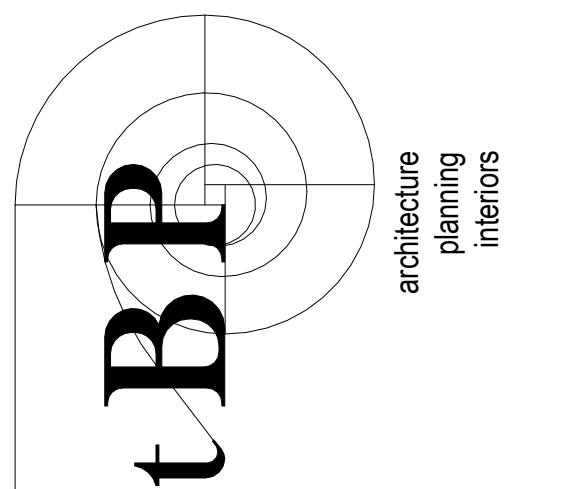


**1** TYPICAL CEILING MOUNTED LOUDSPEAKER

SCALE: NONE

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file name:

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**DETAILS**  
drawing no.:  
**T601**

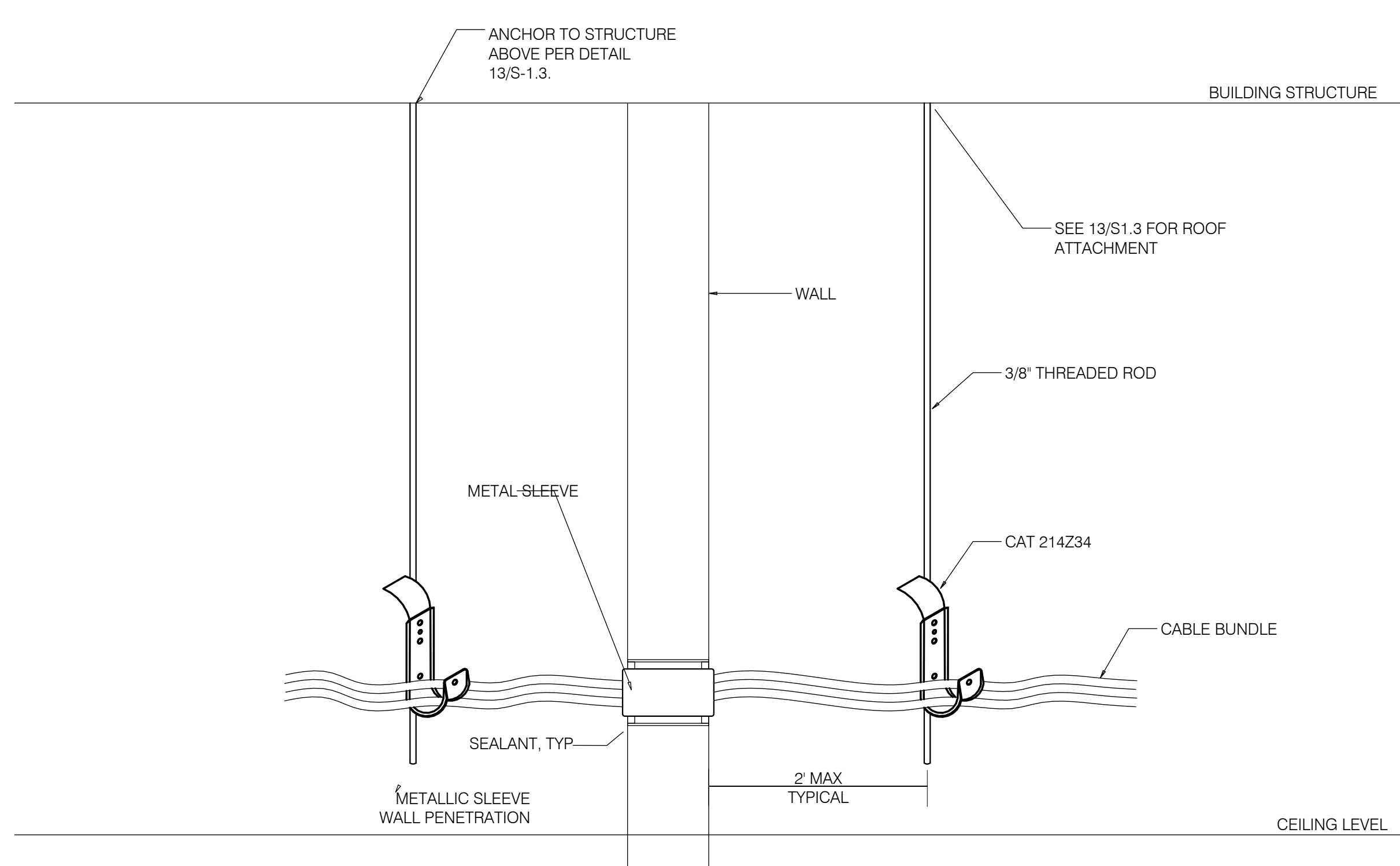
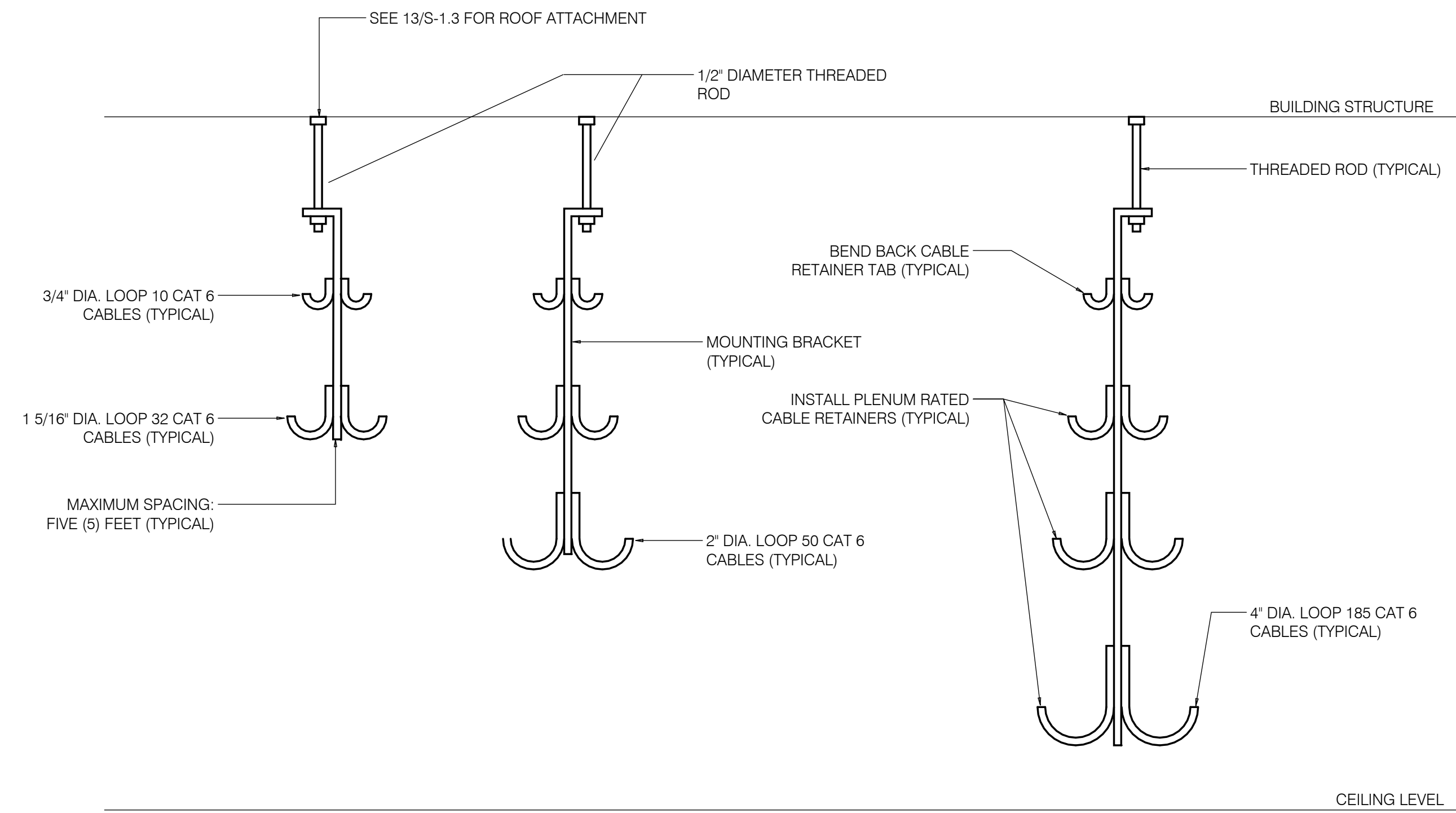
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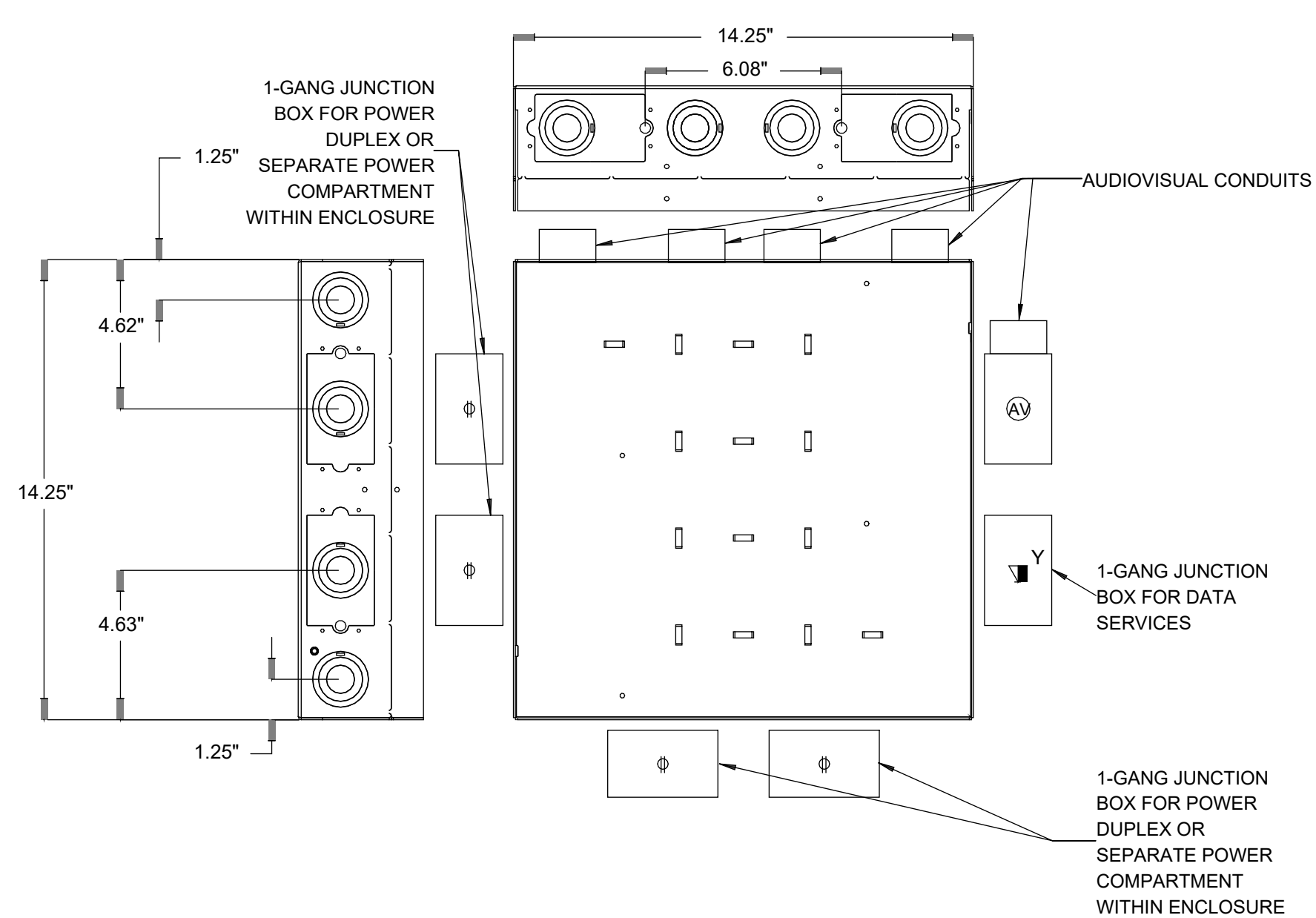
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 DETAILS

drawing no.:  
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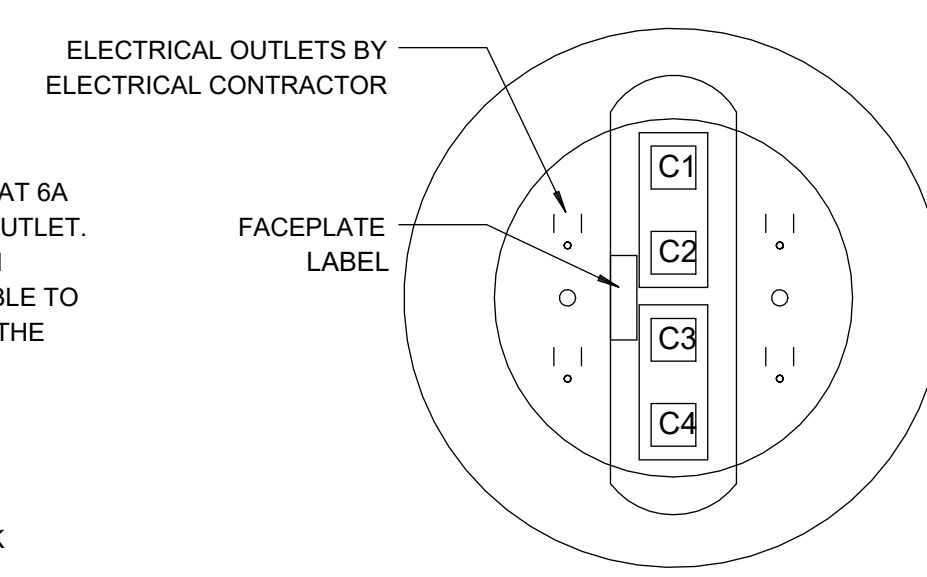


2 TYP J-HOOK INSTALLATION  
 SCALE: NONE

- NOTES:**
- REFER TO AV SPECIFICATION AND CONDUIT RISER FOR MANUFACTURER AND MODEL.
  - COORDINATE ALL SERVICES (POWER, DATA AND AV) FOR POSITIONS WITHIN BOX AND INCLUDE JUNCTION BOXES AT INSTALLATION AND TERMINATION OF SERVICES WITHIN.
  - PAINT EXPOSED SURFACES OF BOX TO MATCH THE ARCHITECTURAL WALL FINISH.

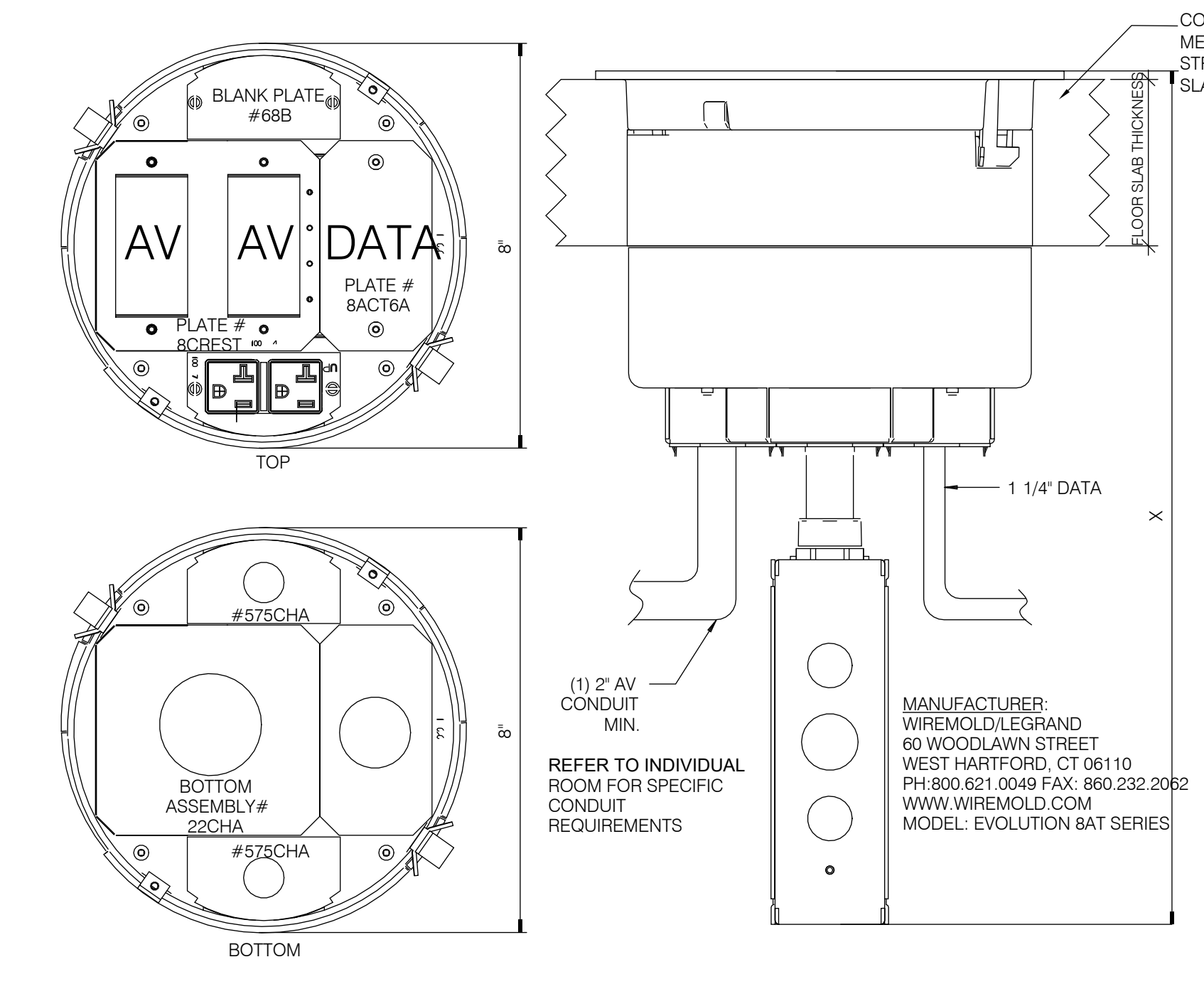


4 CONSOLIDATED DISPLAY BACKBOX  
 SCALE: NONE



- NOTES:**
- PROVIDE (4) COMMUNICATIONS CAT 6A COPPER CONNECTORS AT EACH OUTLET. PROVIDE (4) CAT 6A DISTRIBUTION CABLES RUNNING FROM EACH CABLE TO THE COMMUNICATIONS ROOM ON THE SAME FLOOR. UON
- LEGEND**  
 B-BLANK  
 C-COMMUNICATIONS COPPER JACK

3 TYPICAL POKE-THROUGH  
 SCALE: NONE



1 CONSOLIDATED POKE THRU-EVO 8AT  
 SCALE: NONE

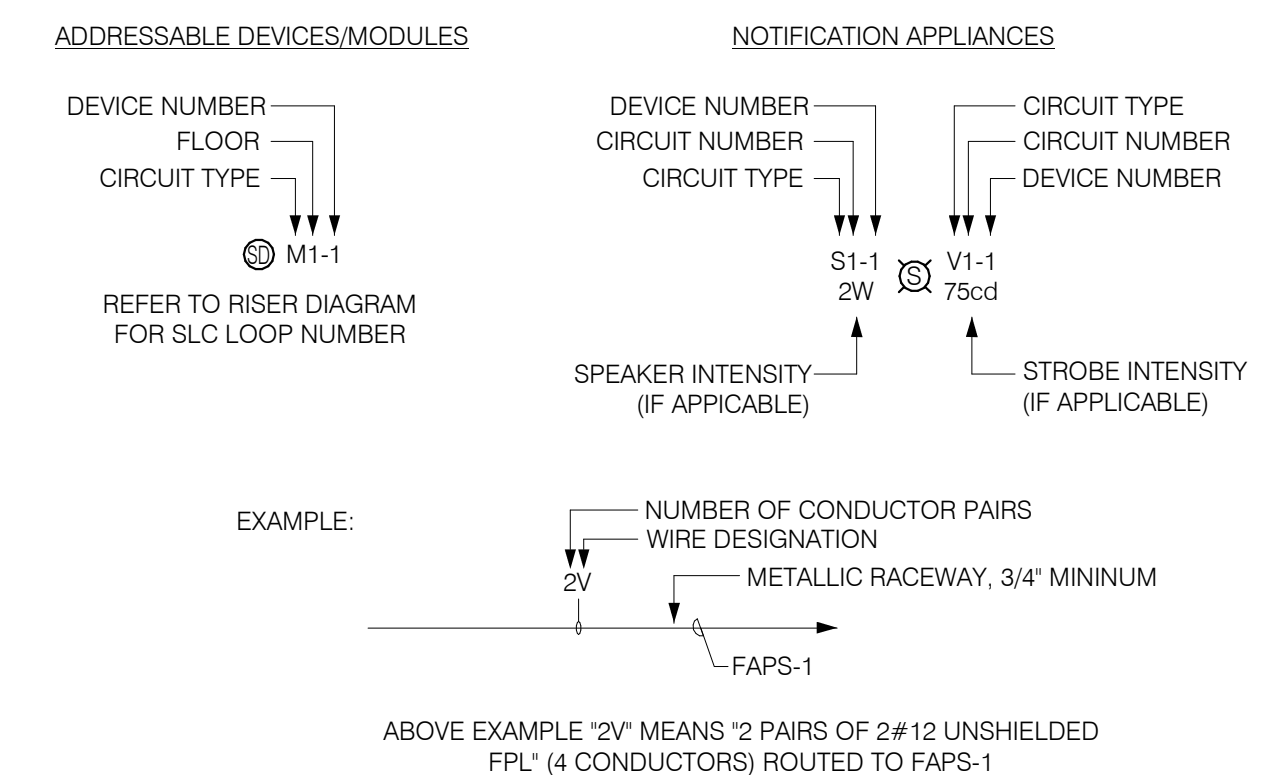
DEVICE SCHEDULE				
SYMBOL	MODEL	MANUFACTURER	DESCRIPTION	C.S.F.M.
<b>PANELS/CABINETS</b>				
[EACP]	E3 SERIES	EDWARDS	(E) ADDRESSABLE FIRE ALARM CONTROL PANEL WITH VOICE EVAC	7165-1657.0186
[FATC]	-	-	FIRE ALARM TERMINAL CABINET	-
[AMP]	3-ZA95	EDWARDS	REMOTE SPEAKER AMPLIFIER PANEL	7165-1657.0186
[FAPS]	BPS10A	EDWARDS	REMOTE NAC POWER SUPPLY PANEL	7300-1657.0229
<b>ADDRESSABLE INITIATING DEVICES</b>				
[S]	SIGA-PD	EDWARDS	ADDRESSABLE SMOKE DETECTOR	7272-1657.0331
[S]	SIGA-SB	EDWARDS	DETECTOR BASE	7272-1657.0331
[S]	SIGA-SB	EDWARDS	DETECTOR BASE	7272-1657.0331
<b>ADDRESSABLE MODULES</b>				
[M]	SIGA-CC1S	EDWARDS	ADDRESSABLE MONITOR MODULE	7300-1657.0121
[R]	SIGA-CR	EDWARDS	ADDRESSABLE RELAY MODULE	7300-1657.0121
<b>NOTIFICATION APPLIANCES</b>				
[X]	GC-VM	EDWARDS	MULTI-CANDELA CEILING STROBE	7125-1657.0219
[X]	G4RF-S7VM	EDWARDS	MULTI-CANDELA MULTI-TAP WALL SPEAKER/STROBE	7320-1657.0211
[X]	GCF-S7VM	EDWARDS	MULTI-CANDELA MULTI-TAP CEILING SPEAKER/STROBE	7320-1657.0211
<b>AUXILIARY ACCESSORIES</b>				
[E.O.L.]	-	-	END OF LINE RESISTOR	-

WIRE SCHEDULE				
DESIGNATION	CIRCUIT TYPE	WIRE/CABLE TYPE	C.S.F.M.	
M	SIGNALING LINE CIRCUIT	UNSHIELDED 2#16 FPL, GENESIS CABLE 4111	7161-1487.0100	
V	NOTIFICATION APPLIANCE CIRCUIT	UNSHIELDED 2#12 FPL, GENESIS CABLE 4115	7161-1487.0100	
S	SPEAKER CIRCUIT	SHIELDED 2#14 FPL, GENESIS CABLE 4208	7161-1487.0100	
X	INITIATING CIRCUIT	UNSHIELDED 2#14 FPL, GENESIS CABLE 4113	7161-1487.0100	
P	AUXILIARY POWER (24 VDC)	UNSHIELDED 2#14 FPL, GENESIS CABLE 4113	7161-1487.0100	
F	FIREFIGHTERS TELEPHONE	UNSHIELDED 2#16 FPL, GENESIS CABLE 4206	7161-1487.0100	
D	NETWORK DATA	UNSHIELDED 2#18 FPL, GENESIS CABLE 4106	7161-1487.0100	
A	NETWORK AUDIO	UNSHIELDED 2#18 FPL, GENESIS CABLE 4106	7161-1487.0100	

- NOTE:
- ALARM, TROUBLE, AND SUPERVISORY SIGNALS FROM ALL ADDRESSABLE DEVICES SHALL BE ENCODED ON AN NFPA 72 CLASS B SIGNALING LINE CIRCUIT (SLC).
  - INITIATION DEVICE CIRCUITS (IDC) CONTAINING MORE THAN ONE DEVICE SHALL BE WIRED NFPA 72 CLASS B AS PART OF AN ADDRESSABLE DEVICE CONNECTED BY THE SLC.
  - NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE WIRED CLASS B.
  - PROVIDE WET LOCATION RATED CABLES WHERE INSTALLED UNDERGROUND OUTSIDE THE BUILDING.
  - ALARM SIGNALS ARRIVING AT THE FACP SHALL NOT BE LOST FOLLOWING A PRIMARY POWER FAILURE (OR OUTAGE) UNTIL THE ALARM SIGNAL IS PROCESSED AND RECORDED.

## LEGEND

SYMBOL	DESCRIPTION
[Symbol]	NOTE CALLOUT
[Symbol]	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
[Symbol]	SECTION CALLOUT
[Symbol]	NEW LINENWORK
[Symbol]	EXISTING LINENWORK
[Symbol]	DEMOLISHED LINENWORK
[Symbol]	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
[Symbol]	CONDUIT EXPOSED
[Symbol]	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR
[Symbol]	CONDUIT TURNED UP
[Symbol]	CONDUIT TURNED DOWN
[Symbol]	CONDUIT CAPPED
[Symbol]	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED
[Symbol]	FIRE ALARM PANEL. SEE PLANS FOR TYPE
[Symbol]	FIRE ALARM TERMINAL CABINET
[Symbol]	JUNCTION BOX



## SCOPE OF WORK

- UPGRADE THE EXISTING ADDRESSABLE FIRE ALARM WITH VOICE-EVAC SYSTEM FOR PART OF THE GOLDEN WEST COLLEGE STUDENT SERVICES CENTER'S SECOND FLOOR. PROVIDE DEVICES AS SHOWN IN THE DEVICE SCHEDULE, THE FLOOR PLANS, AND THE SPECIFICATIONS IN THIS CONSTRUCTION DOCUMENT SET.
- WORK SHALL INCLUDE BUT NOT BE LIMITED TO: THE INSTALLATION AND TESTING OF THE CAMPUS FIRE ALARM SYSTEM AND REMOVAL OF THE EXISTING FIRE ALARM SYSTEM.
- WHERE AN EXISTING REQUIRED FIRE PROTECTION SYSTEM IS TAKEN OUT OF SERVICE THE FIRE DEPARTMENT AND FIRE CODE OFFICIAL SHALL BE NOTIFIED. THE OCCUPIED AREA(S) OF A BUILDING LEFT UNPROTECTED WHERE IMPAIRMENTS ARE MADE TO THE FIRE PROTECTION SYSTEM SHALL BE EVACUATED OR PROVIDED WITH A FIRE WATCH FOR ALL OCCUPANTS UNTIL THE FIRE PROTECTION SYSTEM HAS BEEN RETURNED TO NORMAL SERVICE.
- UPON COMPLETION A COMPLETE PRETEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY. IF THE FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.
- THE FOLLOWING DOCUMENTATION SHALL BE PROVIDED TO THE OWNER UPON FINAL ACCEPTANCE OF THE SYSTEM:
  - OWNER'S MANUAL AND INSTALLATION INSTRUCTION COVERING ALL SYSTEMS EQUIPMENT AND REQUIREMENTS.
  - RECORD SHOP DRAWINGS IN AUTOCAD FORMAT.
  - RECORD COPY OF SITE SPECIFIC SOFTWARE (FOR SOFTWARE BASED).
  - NFPA 72 RECORD OF COMPLETION DOCUMENTATION.

## BUILDING INFORMATION

THE GOLDEN WEST COLLEGE (GWC) STUDENT SERVICES BUILDING IS AN EXISTING BUILDING WITH 2 FLOORS WITH A BUILDING HEIGHT OF 35'. THE BUILDING IS CONSIDERED A CONSTRUCTION TYPE I-B WITH A CLASSIFICATION B OCCUPANCY AND WILL INCLUDE OFFICES, LECTURE ROOMS, MEETING ROOMS, AND COMMON AREAS.

## BUILDING USE AND OCCUPANCY CLASSIFICATION

THE PROJECT CONSISTS OF THE FOLLOWING OCCUPANCIES:

- GROUP B: OFFICES, MEETING ROOMS

## ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
&	AND	LV	LOW VOLTAGE
@	AT	M	METER
A OR AMP	AMPERES	MAX	MAXIMUM
ABV	ABOVE	MCC	MOTOR CONTROL CENTER
AF	AMPERE FUSE RATING	MFR, MFR	MANUFACTURER
AF	AMPERE FUSE RATING	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AFG	ABOVE FINISH GRADE	MTD	MOUNTED
AMP	AMPLIFIER	MTG	MOUNTING
ANN	ANNUNCIATOR	MTR	MOTOR
APPROX.	APPROXIMATE	MTTB	MAIN TELEPHONE TERMINAL BOARD
ARCH.	ARCHITECT, ARCHITECTURAL	MV	MULTI-VOLTAGE
AUTO	AUTOMATIC	N	NORTH
AUX	AUXILIARY	NAC	NOTIFICATION APPLIANCE CIRCUIT
AWG	AMERICAN WIRE GAUGE	NC	NORMALLY CLOSED
BAT	BATTERY	NEC	NATIONAL ELECTRICAL CODE
BEL	BELOW	NF	NON-FUSED
BKBD	BACKBOARD	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BLDG	BUILDING	NIC	NOT IN CONTRACT
C	CONDUIT	NO	NUMBER
C.O.	CONDUIT ONLY WITH PULL WIRE	OC	ON CENTER
CKT	CIRCUIT	OD	OUTSIDE DIAMETER
CL	CENTER LINE	OH	OVERHEAD
CLG	CEILING	POLE	PULL BOX
CMU	CONCRETE MASONRY UNIT	PV	POST INDICATING VALVE
COL	COLUMN	PL	PLATE
CSFD	COMBINATION SMOKE FIRE DAMPER	PNL	PANEL
CU	COPPER	POC	POINT OF CONNECTION
DD	DUCT DETECTOR	PREF	PREFERRED
DH	DOOR HOLDER	PR1	PRIMARY
DIAG	DIAGRAM	PVC	POLY-VINYL CHLORIDE
DIS	DISCONNECT	PWR	POWER
DIST	DISTANCE	REC	RECEPTACLE
DWG	DRAWING	REQD	REQUIRED
DWP	DEPARTMENT OF WATER & POWER	RGS	RIGID GALVANIZED STEEL
EA	EACH	RM	ROOM
ELEC	ELECTRICAL	RMC	RIGID METAL CONDUIT
EM	EMERGENCY	RPP	REDUCED PRESSURE BACK FLOW PREVENTER
EMH	ELECTRICAL MANHOLE	SCF	SQUARE FEET
EMT	ELECTRICAL METALLIC TUBING	SHT	SHEET
EOL	END OF LINE	SIG.	SIGNAL
EPO	EMERGENCY POWER OFF	SLC	SIGNALING LINE CIRCUIT
EQUIP	EQUIPMENT	SP	SPARE
EXIST(E)	EXISTING	SPECS	SPECIFICATIONS
EXP	EXPLOSION PROOF	STD	STANDARD
FA	FIRE ALARM	STP	SHIELDED TWISTED PAIR
FACP	FIRE ALARM CONTROL PANEL	SW	SWITCH
FAPS	FIRE ALARM POWER SUPPLY	SWBG	SWITCHBOARD
FATC	FIRE ALARM TERMINAL CABINET	SWGR	SWITCHGEAR
FFE	FINISHED FLOOR ELEVATION	T.O.D.	TOP OF DUCTBANK
FIN.	FINISH	T.O.M.	TOP OF MANHOLE
FIXT	FIXTURE	T.B.	TERMINAL BLOCK
FLR	FLOOR	TEL./TELE	TELEPHONE
FMC	FLEXIBLE METAL CONDUIT	TMH	TELEPHONE MANHOLE
FO	FIBER OPTIC	TPS	TWISTED SHIELDED PAIR
FP	FIRE PUMP	TRANSF.XFMR	TRANSFORMER
FEET	FEET	TS	TAMPER SWITCH
FTG	FOOTING	TYP	TYPICAL
GEN	GENERATOR	UG	UNDERGROUND
GFI	GROUND FAULT INTERRUPTER	UN	UNLESS OTHERWISE NOTED
GND	GROUND	V	VOLTS
HOA	HAND-OFF-AUTOMATIC	VA	VOLT-AMPERES
HP	HORSEPOWER	VAC	VOLTS, ALTERNATING CURRENT
HT	HEIGHT	VDC	VOLTS, DIRECT CURRENT
HTR	HEATER	VECP	VOICE/EVACUATION CONTROL PANEL
HZ	HERTZ	W	WATTS
IDC	INITIATION DEVICE CIRCUIT	W/	WITH
IMC	INTERMEDIATE METAL CONDUIT	W/O	WITHOUT
J. JB, J-BOX	JUNCTION BOX	WP	WEATHERPROOF
KV	KILOVOLT		
KVA	KILOVOLT-AMPERES		
KW	KILOWATT		
LF	LINEAR FEET		
LPMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT		
LGST	LEGST		
LOC.	LOCATION		

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

## APPLICABLE CODES

CALIFORNIA BUILDINGS STANDARDS CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24):

PART 1	2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), TITLE 24 C.C.R.
PART 2	2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R.
PART 3	2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R.
PART 4	2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R.
PART 5	2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R.
PART 6	2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 7	CURRENTLY VACANT
PART 8	CURRENTLY VACANT
PART 9	2022 CALIFORNIA FIRE CODE (FCF), TITLE 24 C.C.R.
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), TITLE 24 C.C.R.
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), TITLE 24 C.C.R.
PART 12	2022 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

## APPLICABLE STANDARDS:

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 99 AND CFC CHAPTER 80.

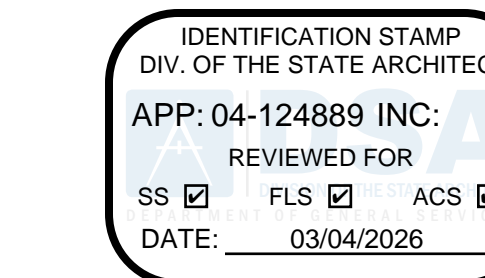
## GENERAL NOTES

- CONTROL CIRCUITS ARE NON POWER LIMITED. MINIMUM RECOMMENDED WIRE SIZE TO BE DETERMINED BY CIRCUIT LOAD.
- WIRING SHALL NOT BE LOOPED THROUGH DEVICES UPON TERMINATION. WIRE MUST BE CUT FOR IN AND OUT RUNS PRIOR TO DEVICE TERMINATION.
- WHERE SHIELDED CABLE IS USED, THE SHIELD SHALL BE CONTINUOUS AND GROUNDED ONLY AT THE RESPECTIVE CONTROL PANEL.
- T-TAPPING OR PARALLEL BRANCHING OF NOTIFICATION APPLIANCE DEVICE CIRCUITS IS PROHIBITED ON CLASS A CIRCUITS.
- ELECTRICAL CONTRACTOR IS REQUIRED TO USE COLOR CODE, WIRE NUMBERS, OR AS SPECIFIED IN THE PROJECT SPECIFICATIONS ON ALL CIRCUITS AND SHALL BE CONTINUOUS, OTHERWISE, NO FINAL CONNECTIONS OR TESTING SHALL BE PERFORMED. IF WIRE COLOR CODING IS USED, GREEN WILL BE USED FOR GROUND BONDING ONLY.
- POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED.
- ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANELS SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION (FIRE ALARM CONTROL PANEL(S)) TO SUPERVISE ANNUNCIATOR PANEL(S), SUB-PANEL(S), ALL CIRCUITS AND INITIATING DEVICES).
- FIRE ALARM SIGNAL SHALL MEET ANSI S3.41, AUDIBLE EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).
- AUDIBILITY OF ALARM SHALL BE NOT LESS THAN 15DB ABOVE AMBIENT SOUND THROUGHOUT THE AREA OF ALARM.
- ALL STROBE APPLIANCE SHALL BE SYNCHRONIZED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72), REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES & REGULATIONS".
- STROBE APPLIANCE LOCATIONS MUST BE 10 FOOT CEILING HEIGHTS AND ARE INSTALLED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72) UNLESS OTHERWISE NOTED. REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES & REGULATIONS".
- WALL-MOUNTED STROBE AND HORN/STROBE APPLIANCES SHALL BE MOUNTED A MINIMUM OF 80 INCHES ABOVE FINISHED FLOOR OR 6 INCHES MINIMUM BELOW THE CEILING, (WHICH EVER IS LOWER). MEASUREMENT ARE TO BE TAKEN FROM BOTTOM OF STROBE.
- PHOTOELECTRIC DETECTORS SHALL NOT BE IN DIRECT AIR STREAM SUPPLY AIR OUTLETS.
- REFER TO RESPECTIVE CATALOG CUT SHEETS FOR ELECTRICAL MOUNTING HARDWARE.
- ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
- AUDIBILITY WILL BE DETERMINED BY THE FIELD FIRE MARSHAL.
- ALL FIRE ALARM CIRCUITS SHALL BE LABELED AT CONNECTIONS AND AT JUNCTION BOXES.
- DUCT SMOKE DETECTORS SHALL BE TESTED FOR DUCT VELOCITY AND PRESSURE DIFFERENTIAL IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- DIFFERENTIAL PRESSURE SWITCHES SHALL BE SUPPLIED AND INSTALLED BY A LICENSED MECHANICAL CONTRACTOR. THE ELECTRICAL CONNECTION TO THE DIFFERENTIAL PRESSURE SWITCH SHALL BE MADE BY THE FIRE ALARM CONTRACTOR.
- UNLESS OTHERWISE NOTED ALL WIRING AND INSTALLATION METHODS SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE (CEC), ARTICLE 760. SEE APPLICABLE EDITION UNDER "APPLICABLE CODES & REGULATIONS".
- ALL WIRE CONDUCTORS SHALL BE POWER LIMITED COPPER WIRING AND INSTALLED WITHIN A METALLIC RACEWAY.
- PER SPECIFICATION CONDUIT RISERS SHALL BE INSTALLED INSIDE A TWO HOUR FIRE RATED ENCLOSURE PROVIDED BY OTHERS. HORIZONTAL OFFSET CONDUITS AND JUNCTION BOXES SHALL BE PROTECTED BY TWO HOUR FIRE RATED ENCLOSURES PROVIDED BY OTHERS.
- ALL RACEWAY RUNS INDICATED WITHIN THIS DRAWING PACKAGE ARE SHOWN DIAGRAMMATICALLY AND ARE FOR CIRCUITING PURPOSES ONLY. ALL RUNS SHOWN SHOULD NOT SERVE IN ANY WAY AS AN ACTUAL ROUTING GUIDE FOR INSTALLATION OF RACEWAYS. EXACT INSTALL LOCATION SHALL BE FIELD DETERMINED.
- ADDITIONAL JUNCTION BOXES NOT SHOWN MAY BE REQUIRED TO ACCOMMODATE PROPER RACEWAY INSTALLATIONS. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO DETERMINE THE NECESSARY AMOUNT OF JUNCTION BOXES REQUIRED.
- SUBMITTED DRAWING PACKAGE MUST BE REVIEWED BY UNIVERSITY REPRESENTATIVE AND ONE COPY OF THE REVIEWED DRAWING AND SUBMITTAL MUST BE RETURNED TO SIEMENS BEFORE ANY EQUIPMENT IS SHIPPED OR INSTALLED. CUSTOM ANNUNCIATORS WILL NOT BE FABRICATED UNTIL WRITTEN APPROVAL OF LAYOUT AND/OR ARTWORK IS RECEIVED.
- FOR INSPECTION AND OR TESTING THE FIRE MARSHAL SHALL BE NOTIFIED FOR SCHEDULING AN APPOINTMENT.
- A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD. THE STRICTER REQUIREMENT WILL PREVAIL.
- A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE FIRE MARSHAL.
- UPON COMPLETION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE MARSHAL.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
- REFER TO THE SPECIFICATIONS BOOK FOR ADDITIONAL REQUIREMENTS.
- PROVIDE A DRY CONTACT OUTPUT FROM THE FIRE ALARM, 3/4" C-2 CONDUCTORS AND CONNECT TO THE AUDIO VISUAL SYSTEM HEAD END. THE DRY CONTACT SHALL SIGNAL THE AV SYSTEM TO SHUT DOWN WHEN THE FIRE ALARM IS ACTIVE.

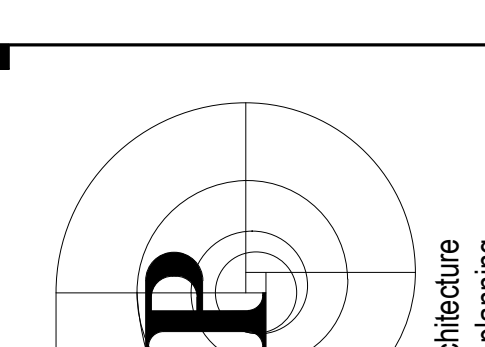
## SHEET INDEX

SHEET	DESCRIPTION
FA001	NOTES, LEGENDS, ABBREV. & INDEX
FA0101	OVERALL 2ND FLOOR DEMOLITION PLAN
FA0201	OVERALL 2ND FLOOR PLAN
FA0301	ENLARGED 2ND FLOOR RENOVATION PLAN
FA0401	FIRE ALARM RISER DIAGRAM
FA0501	FIRE ALARM CALCULATIONS
FA0601	DETAILS
FA0701	DETAILS

SYSTEM INPUTS	SYSTEM OUTPUTS																	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1 MANUAL PULL STATION	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 SMOKE DETECTORS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3 SMOKE DETECTOR - ELEVATOR LOBBY - 1ST FL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4 SMOKE DETECTOR - ELEVATOR LOBBY - 2ND FL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5 IN-DUCT SMOKE DETECTOR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6 HEAT DETECTORS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7 BEAM SMOKE DETECTORS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8 WATERFLOW - SUPERVISION	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9 SPRINKLER CONTROL VALVE - SUPERVISION	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10 FIRE ALARM CONTROL PANEL POWER FAILURE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
11 FIRE ALARM SYSTEM LOW BATTERY	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12 OPEN CIRCUIT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13 GROUND FAULT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 NOTIFICATION APPLIANCE SHORT CIRCUIT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15 AUDIO AMPLIFIER FAILURE - IN PRIMARY POWER	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 AUDIO AMPLIFIER FAILURE - IN SECONDARY POWER	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
17 CELLULAR COMMUNICATOR FAILURE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



DIVISION OF THE STATE ARCHITECT  
10920 VIA FRONTERA, SUITE 300



4611 Teller Avenue  
Newport Beach, CA 92660  
ph. 949.673.0300 fx. 949.732.3895



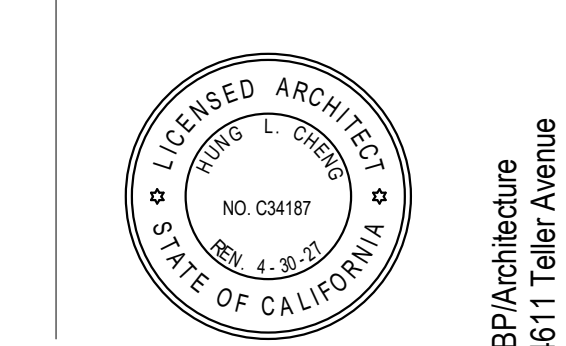
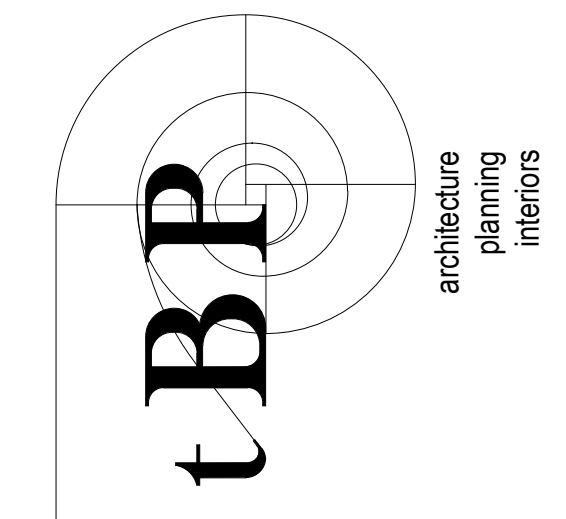


NOTES

- 1 SEE SHEET FA301.
- 2 NEW AMPLIFIER
- 3 NEW WIRE

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-124889 INC.  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 03/04/2026

DIVISION OF THE STATE ARCHITECT  
 10920 VIA FRONTERA, SUITE 300  
 agency



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**Golden West College-  
 Student Services Center  
 EXECUTIVE OFFICE**  
 15744 Goldenwest Street  
 Huntington Beach, CA 92647  
 Coast Community College District- Golden West College  
 owner

tBP project number: tBP No: 21182.00

file name:

drawn by: Author checked by: Checker

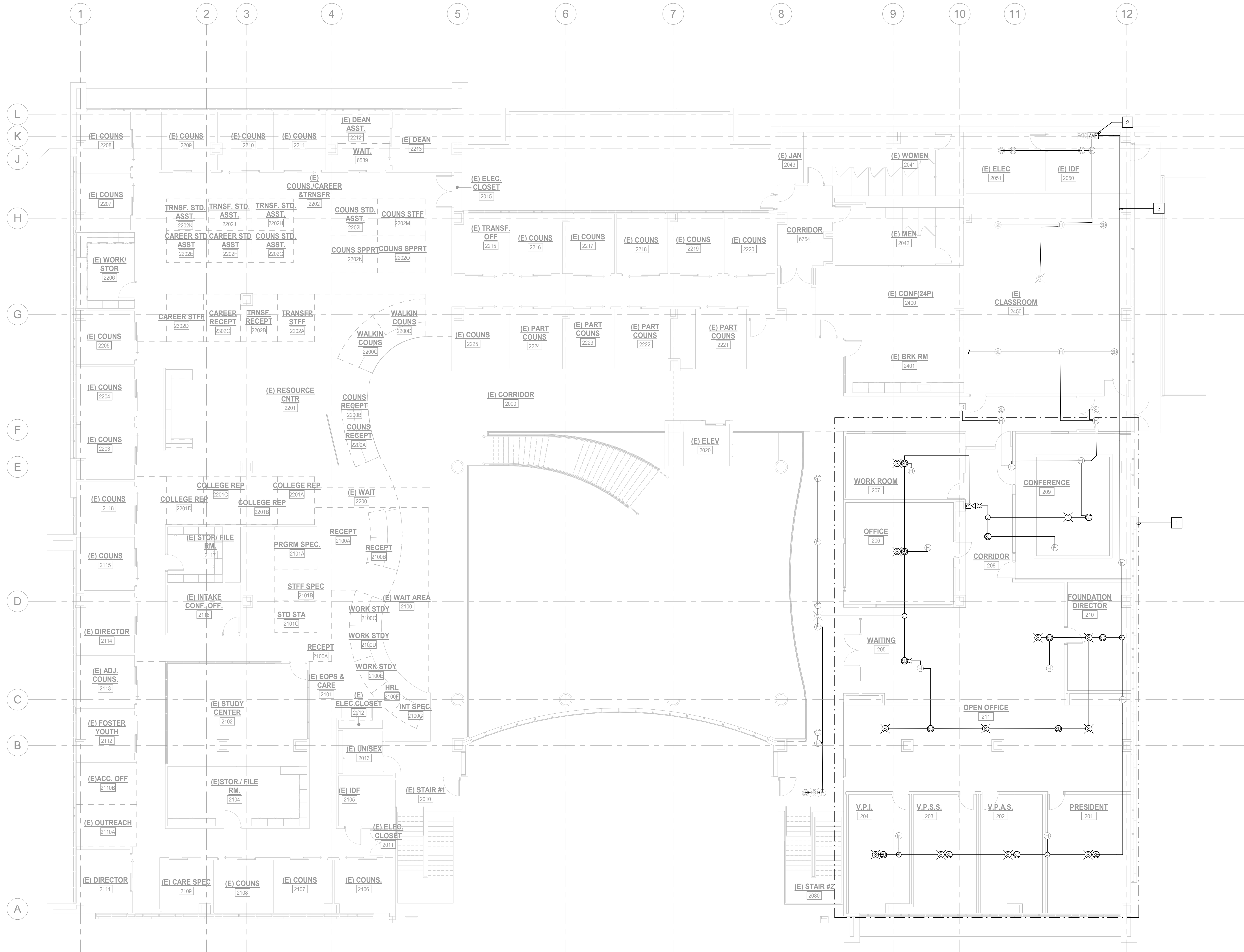
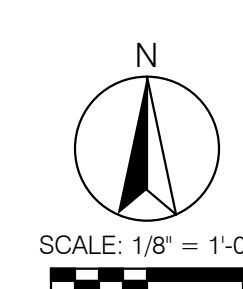
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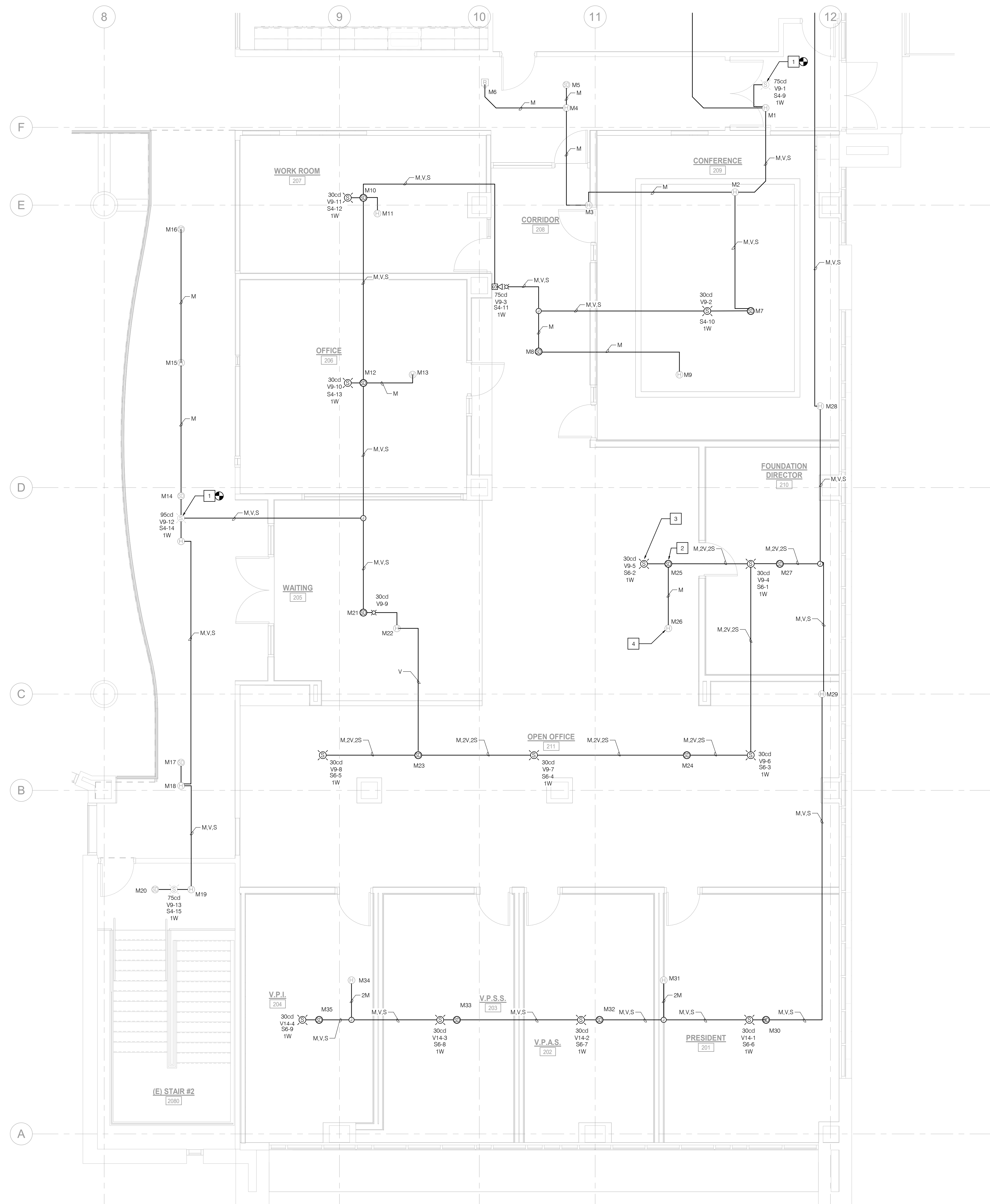
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drawing title:  
**OVERALL 2ND FLOOR  
 PLAN**

drawing no.:  
**FA201**

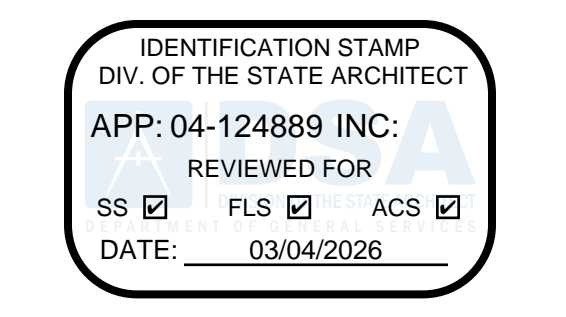


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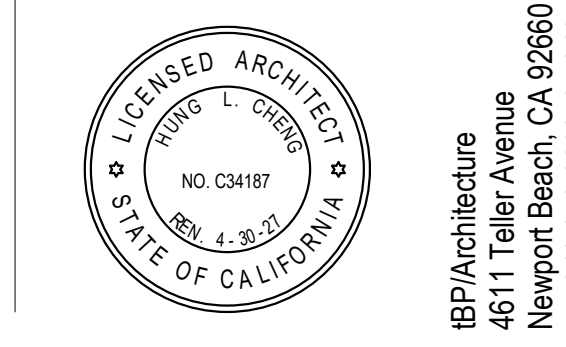
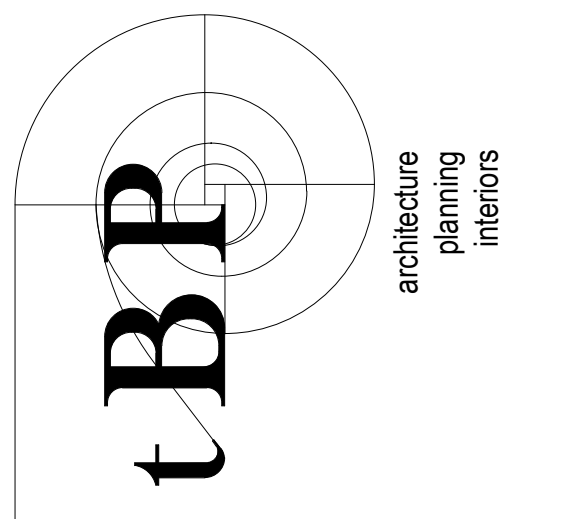


**NOTES**

- 1 POINT OF CONNECTION TO EXISTING DEVICE.
- 2 NEW SMOKE DETECTOR, TYP.
- 3 NEW SPEAKER STROBE, TYP.
- 4 EXISTING HEAT DETECTOR TO REMAIN ABOVE CEILING, TYP.

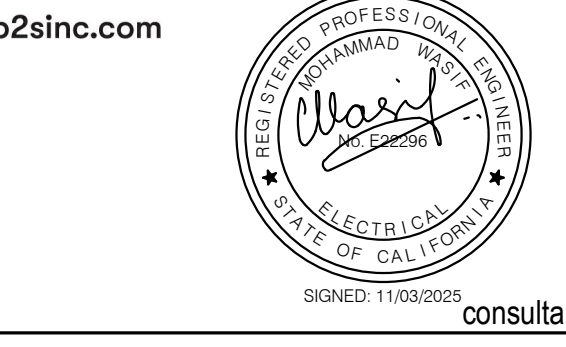


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**Golden West College-  
Student Services Center  
EXECUTIVE OFFICE**  
15744 Goldenwest Street  
Huntington Beach, CA 92647  
owner  
Coast Community College District- Golden West College

tBP project number: tBP No: 21182.00

file name:

drawn by: Author checked by: Checker

date: 10/06/2025 2/23/2026 12:30:40 PM

rev. date: description:

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10/27/25	100% CD
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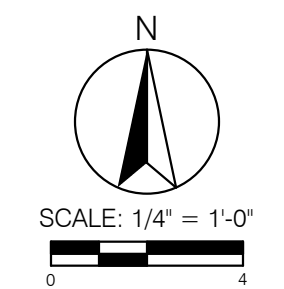
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drawing title:

**ENLARGED 2ND FLOOR  
RENOVATION PLAN**

drawing no.:

**FA301**

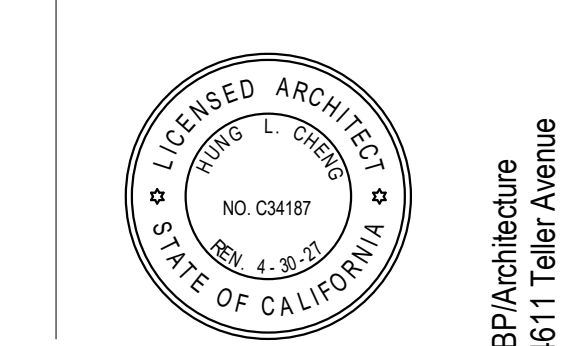
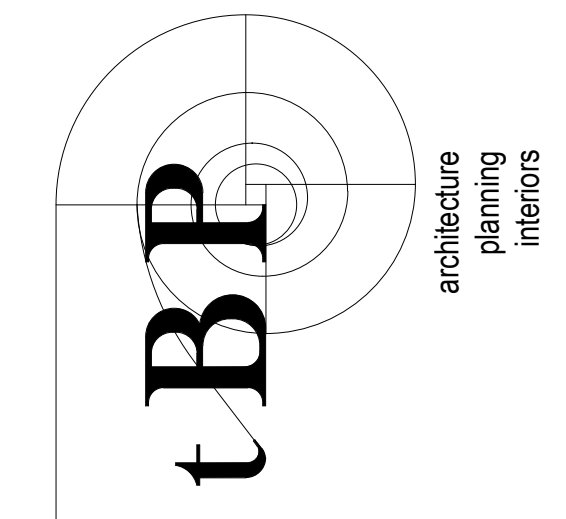


**NOTES**

- 1 EXISTING SYSTEM, NOT IN SCOPE.
- 2 PROVIDE NEW FIRE ALARM AMPLIFIER.
- 3 (E) EXISTING DEVICE
- 4 (N) NEW DEVICE

IDENTIFICATION STAMP  
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 APP: 04-124889 INC.  
 REVIEWED FOR  
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 DATE: 03/04/2026

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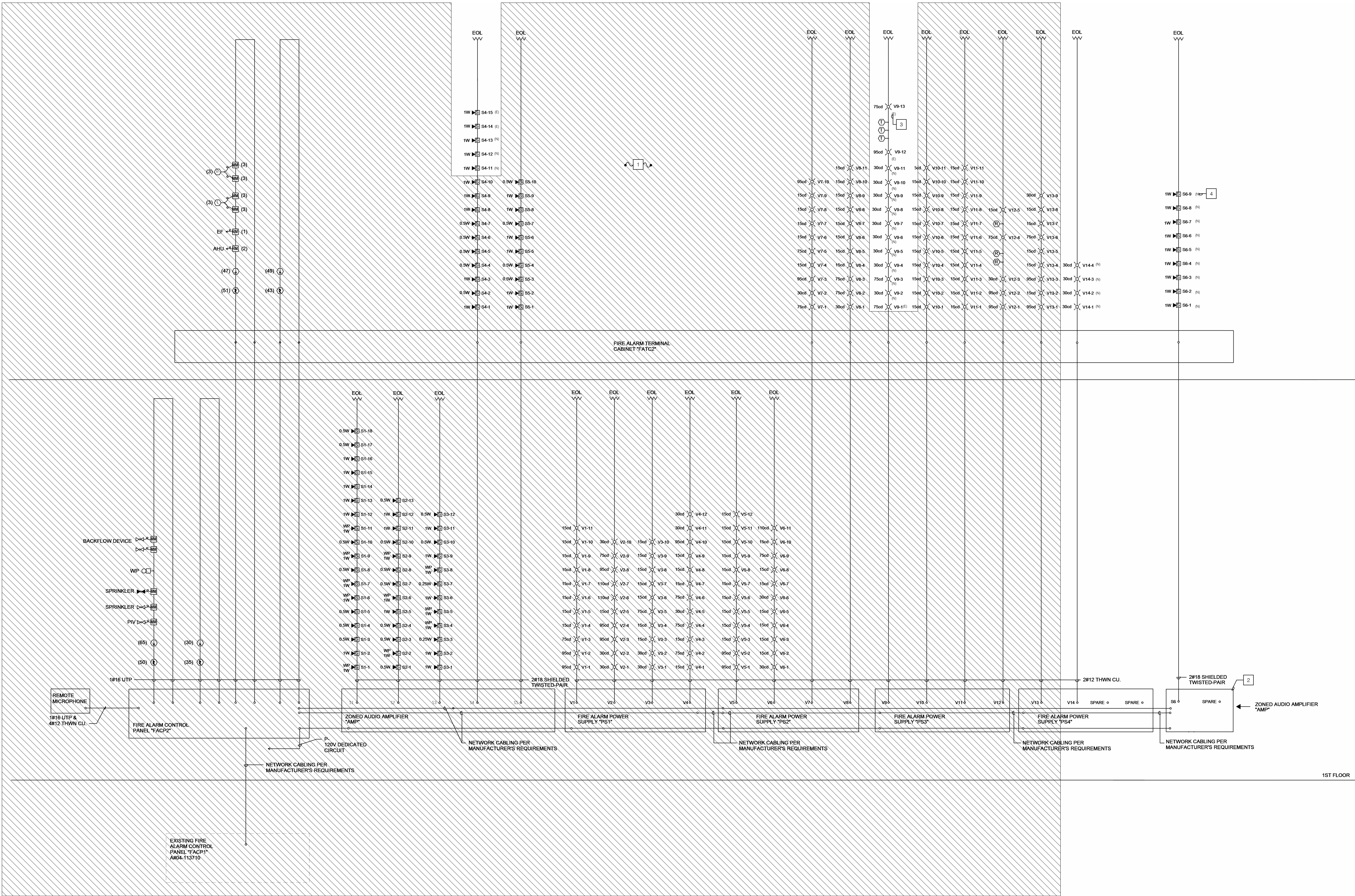
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 Coast Community College District- Golden West College  
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IBP project number:	IBP No: 21182.00
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rev.	date: description:
	10/06/25 50% CD
	10/27/25 100% CD
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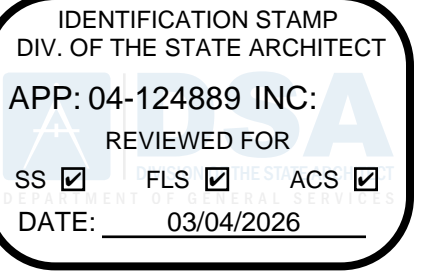
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drawing title:  
**FIRE ALARM RISER  
 DIAGRAM**

drawing no.:  
**FA501**

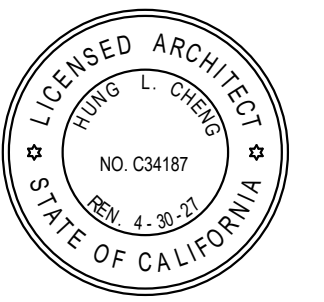
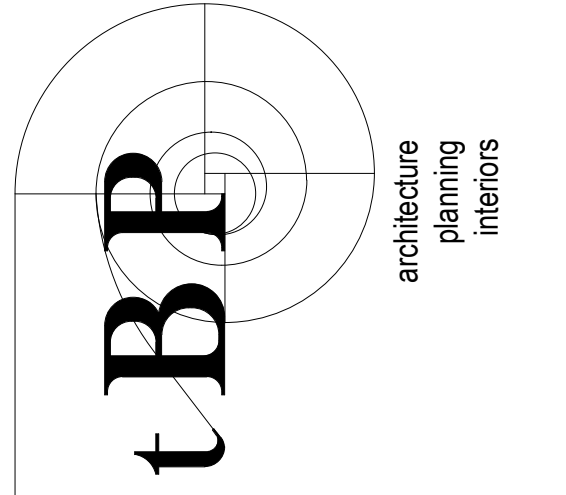


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drawing title:

**FIRE ALARM  
CALCULATIONS**

drawing no.:

**FA502**

**BATTERY CAPACITY CALCULATION**

AMP 2  
Location: 2ND FL

Quantity	Description	Unit Standby Current (A)	Total Standby Current (A)	Unit Alarm Current (A)	Total Alarm Current (A)
1	PANEL EQUIPMENT - FIRE ALARM				
1	BACK UP MODULE	0.064000	0.064000	5.540000	5.540000
1	ZONE MODULE	0.064000	0.064000	5.540000	5.540000
1	NOTIFICATION APPLIANCES - STROBE				
0	SPEAKERS	0.000000	0.000000	0.028000	0.028000
0	SPARE	0.000000	0.000000	0.000000	0.000000
0	SPARE	0.000000	0.000000	0.000000	0.000000
0	SPARE	0.000000	0.000000	0.000000	0.000000
	Sub Total		0.128		11.108
<b>BATTERY CALCULATIONS</b>					
ASSUMPTIONS:					
	A - BATTERY BACKUP - STANDBY (HOURS)		60		
	B - BATTERY BACKUP (MINUTES)		15		
	C - ALLOWABLE ERROR (%)		25%		
	D - TOTAL STANDBY BACKUP (AMP-HOUR)		7.680		
	E - TOTAL ALARM BACKUP (AMP-HOUR)		2.777		
	F - ALLOWABLE ERROR (C x (D + E))		2.614		
	TOTAL AMP-HOUR REQUIRED (D + E + F)		13.071		
	<b>BATTERY REQUIRED</b>		<b>18 AH</b>		

**3 AMPLIFIER BATTERY**  
SCALE: NONE

**BATTERY CAPACITY CALCULATION**

PS4  
Location: 1ST FL

Quantity	Description	Unit Standby Current (A)	Total Standby Current (A)	Unit Alarm Current (A)	Total Alarm Current (A)
1	PANEL EQUIPMENT - FIRE ALARM				
1	Main Circuit Board	0.070000	0.070000	0.270000	0.270000
1	NOTIFICATION APPLIANCES - STROBE				
1	Visual Strobe Circuit 13	0.000000	0.000000	0.961000	0.961000
1	Visual Strobe Circuit 14	0.000000	0.000000	0.360000	0.360000
1	SPARE	0.000000	0.000000	0.000000	0.000000
1	SPARE	0.000000	0.000000	0.000000	0.000000
	Sub Total		0.070		1.591
<b>BATTERY CALCULATIONS</b>					
ASSUMPTIONS:					
	A - BATTERY BACKUP - STANDBY (HOURS)		60		
	B - BATTERY BACKUP (MINUTES)		15		
	C - ALLOWABLE ERROR (%)		25%		
	D - TOTAL STANDBY BACKUP (AMP-HOUR)		4.200		
	E - TOTAL ALARM BACKUP (AMP-HOUR)		0.398		
	F - ALLOWABLE ERROR (C x (D + E))		1.149		
	TOTAL AMP-HOUR REQUIRED (D + E + F)		5.747		
	<b>BATTERY REQUIRED</b>		<b>7 AH</b>		

**BATTERY CAPACITY CALCULATION**

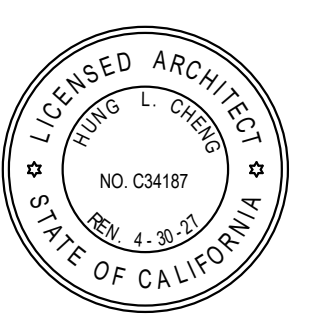
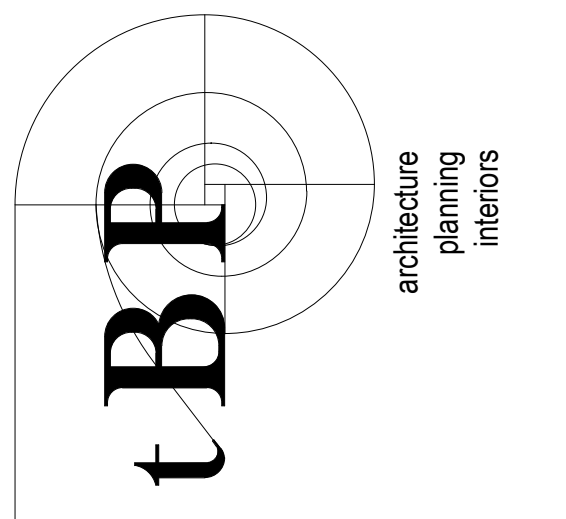
PS3  
Location: 1ST FL

Quantity	Description	Unit Standby Current (A)	Total Standby Current (A)	Unit Alarm Current (A)	Total Alarm Current (A)
1	PANEL EQUIPMENT - FIRE ALARM				
1	Main Circuit Board	0.070000	0.070000	0.270000	0.270000
1	NOTIFICATION APPLIANCES - STROBE				
1	Visual Strobe Circuit V9	0.000000	0.000000	1.508000	1.508000
1	Visual Strobe Circuit V10	0.000000	0.000000	0.693000	0.693000
1	Visual Strobe Circuit V11	0.000000	0.000000	0.693000	0.693000
1	Visual Strobe Circuit V12	0.000000	0.000000	0.709000	0.709000
	Sub Total		0.070		3.873
<b>BATTERY CALCULATIONS</b>					
ASSUMPTIONS:					
	A - BATTERY BACKUP - STANDBY (HOURS)		60		
	B - BATTERY BACKUP (MINUTES)		15		
	C - ALLOWABLE ERROR (%)		25%		
	D - TOTAL STANDBY BACKUP (AMP-HOUR)		4.200		
	E - TOTAL ALARM BACKUP (AMP-HOUR)		0.968		
	F - ALLOWABLE ERROR (C x (D + E))		1.292		
	TOTAL AMP-HOUR REQUIRED (D + E + F)		6.460		
	<b>BATTERY REQUIRED</b>		<b>7 AH</b>		

**2 BATTERIES**  
SCALE: NONE

**1 VOLTAGE DROP**  
SCALE: NONE

LOCATION	CIRCUIT #	SERVICE TO	DISTANCE (FEET)	CONDUCTOR SIZE (AWG)	LOAD BREAKDOWN	NUMBER OF DEVICES	LOAD CIRCUIT TOTAL	% VOLTS DROPPED
SECOND FLOOR	V9	VISUAL DEVICES	320	12	0.063	0	1.508	6.651
					0.09	9		
					0.168	3		
					0.194	1		
					0.196	0		
SECOND FLOOR	V14	VISUAL DEVICES	350	12	0.063	0	0.36	1.737
					0.09	4		
					0.168	0		
					0.194	0		
					0.0035	0		
SECOND FLOOR	S6	SPEAKER DEVICES	250	18	0.007	4	0.028	0.133
					0.194	0		
					0.007	4		
					0.014	0		
					0.014	0		



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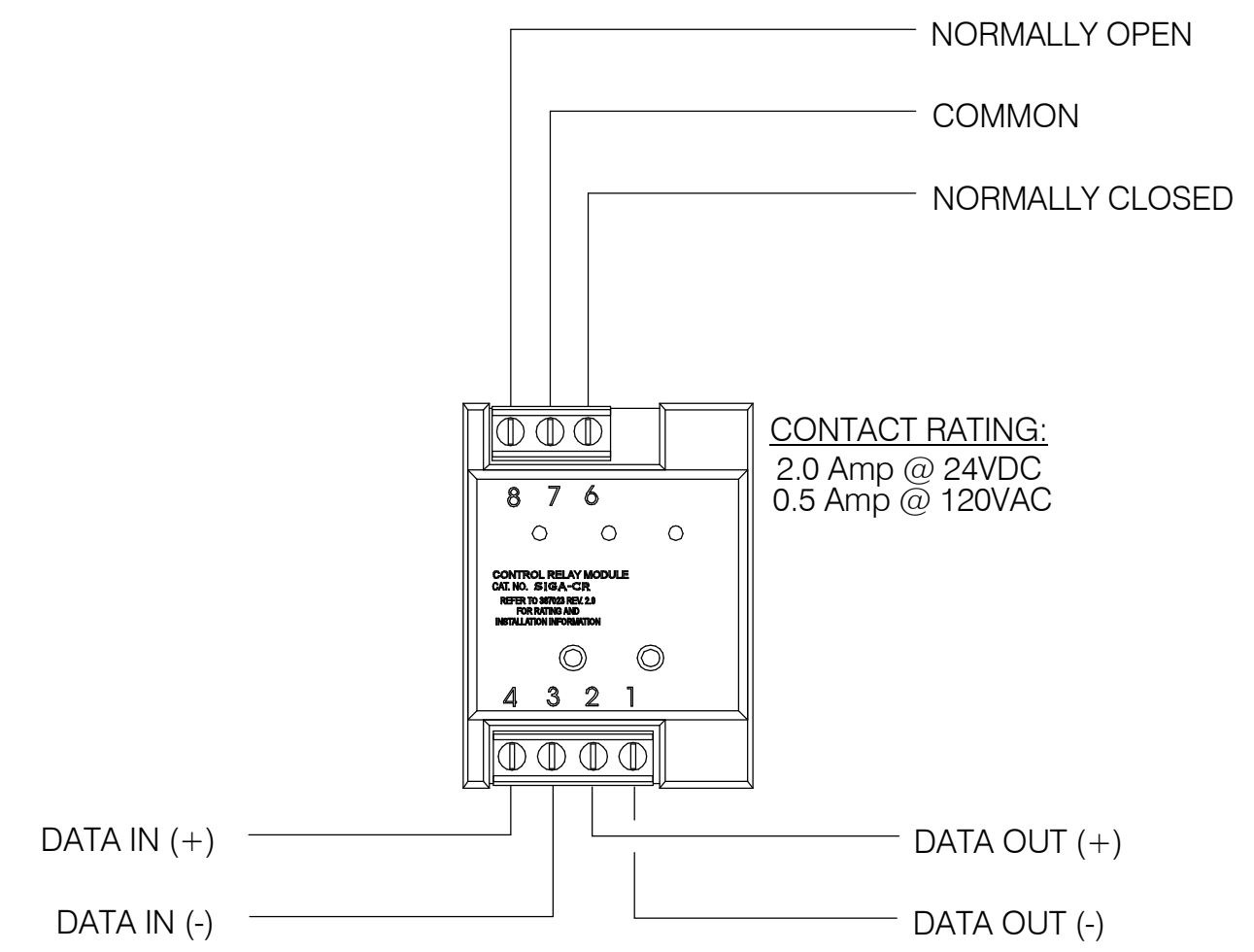
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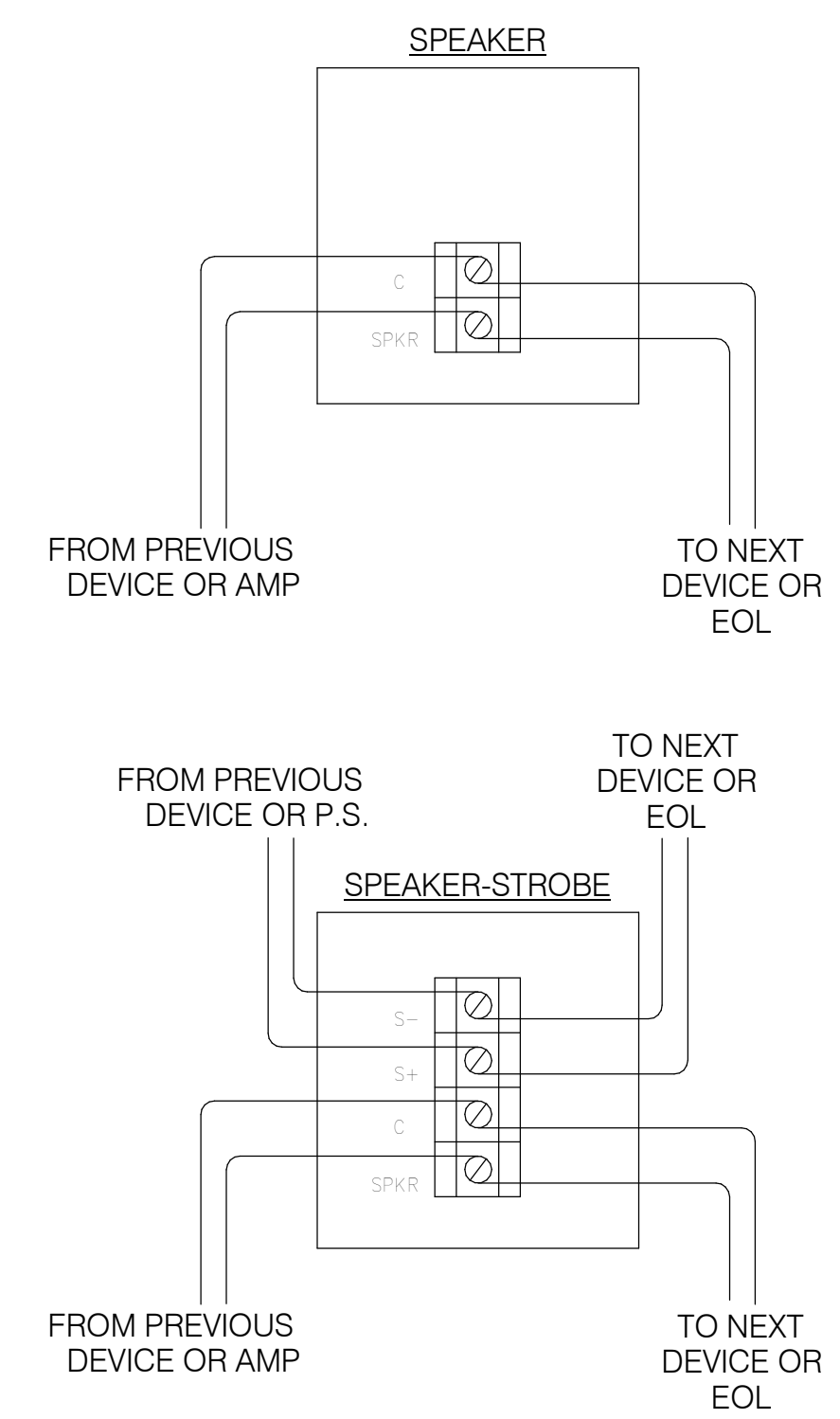
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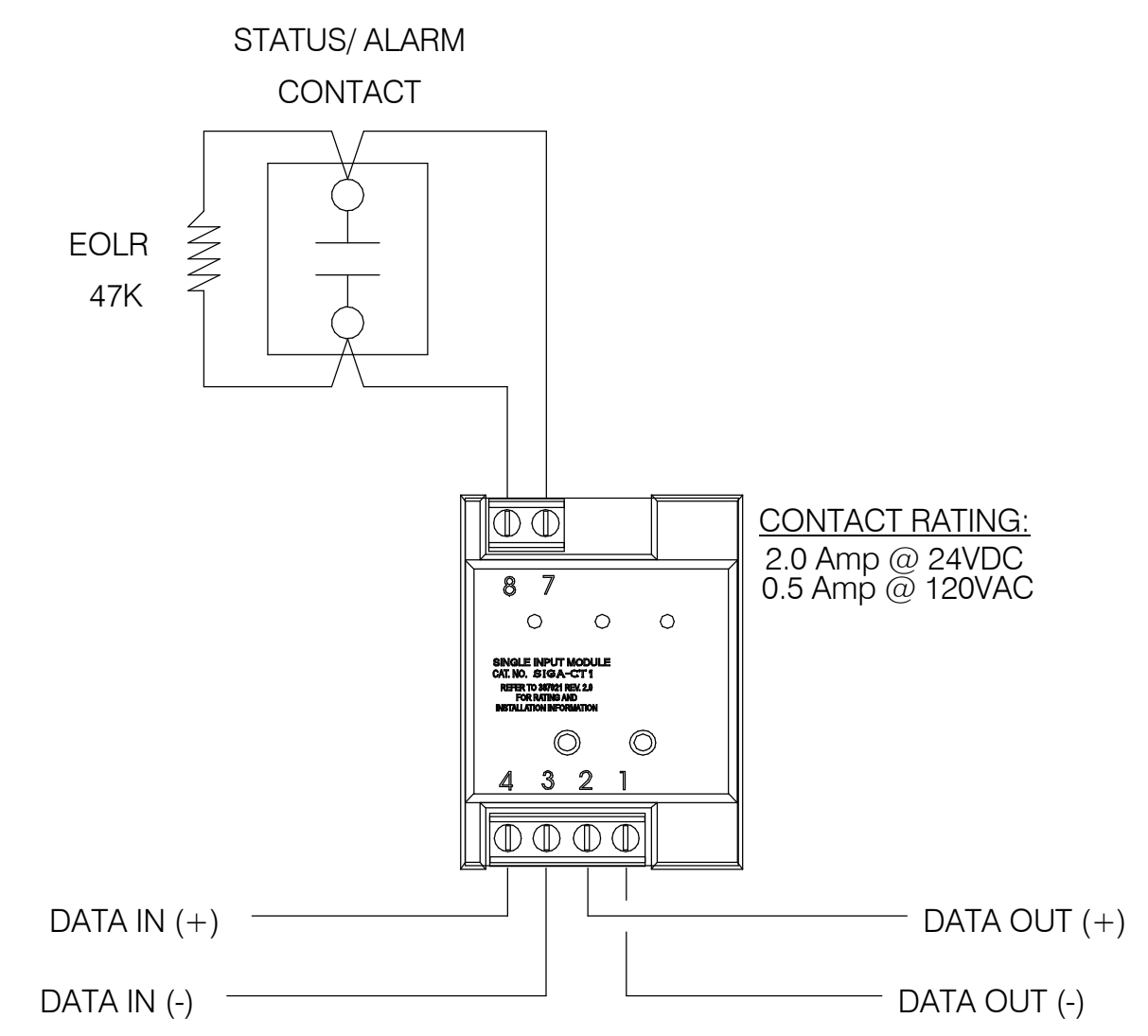
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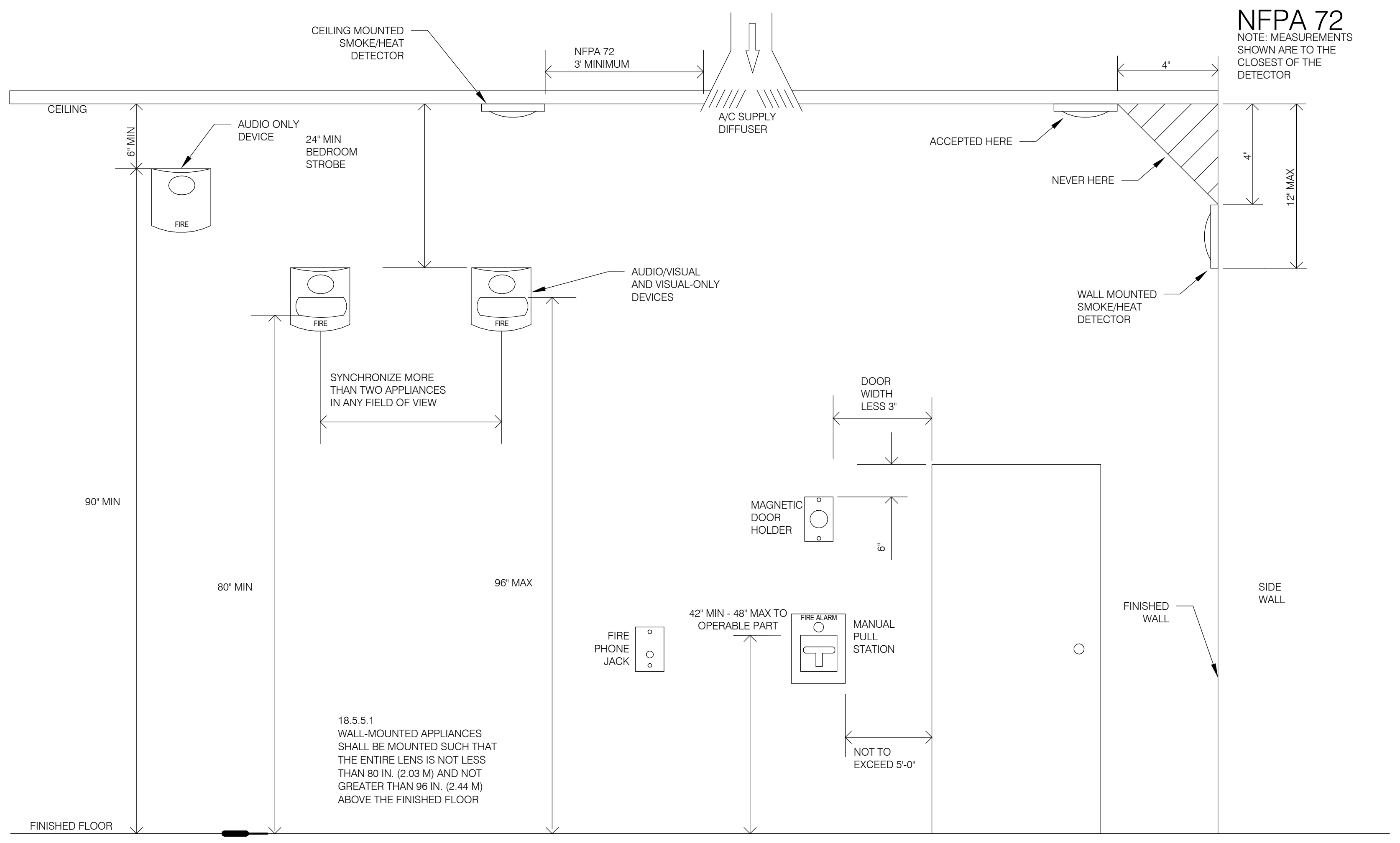
5 CONTROL RELAY MODULE WIRING  
 NO SCALE



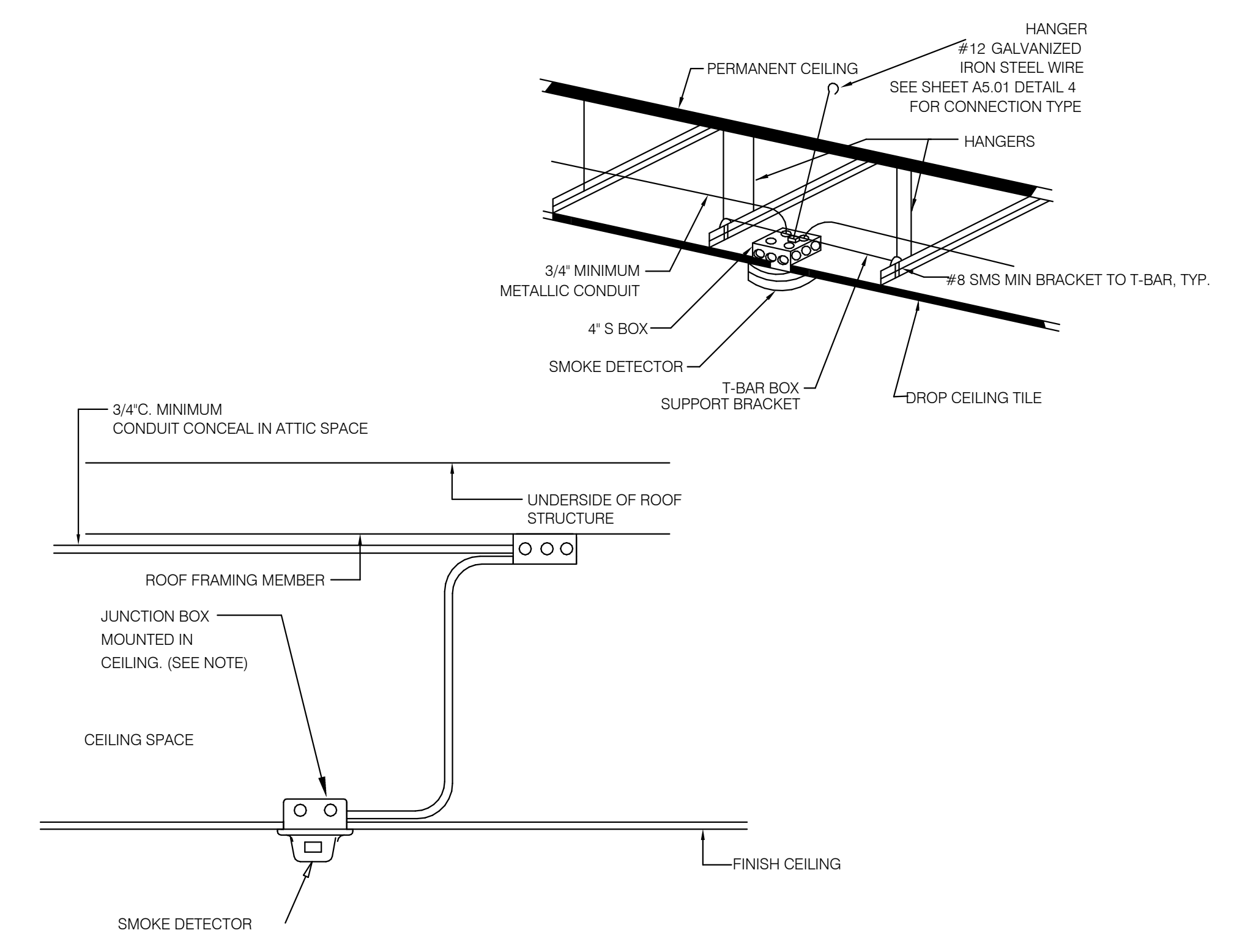
4 NOTIFICATION DEVICE WIRING  
 NO SCALE



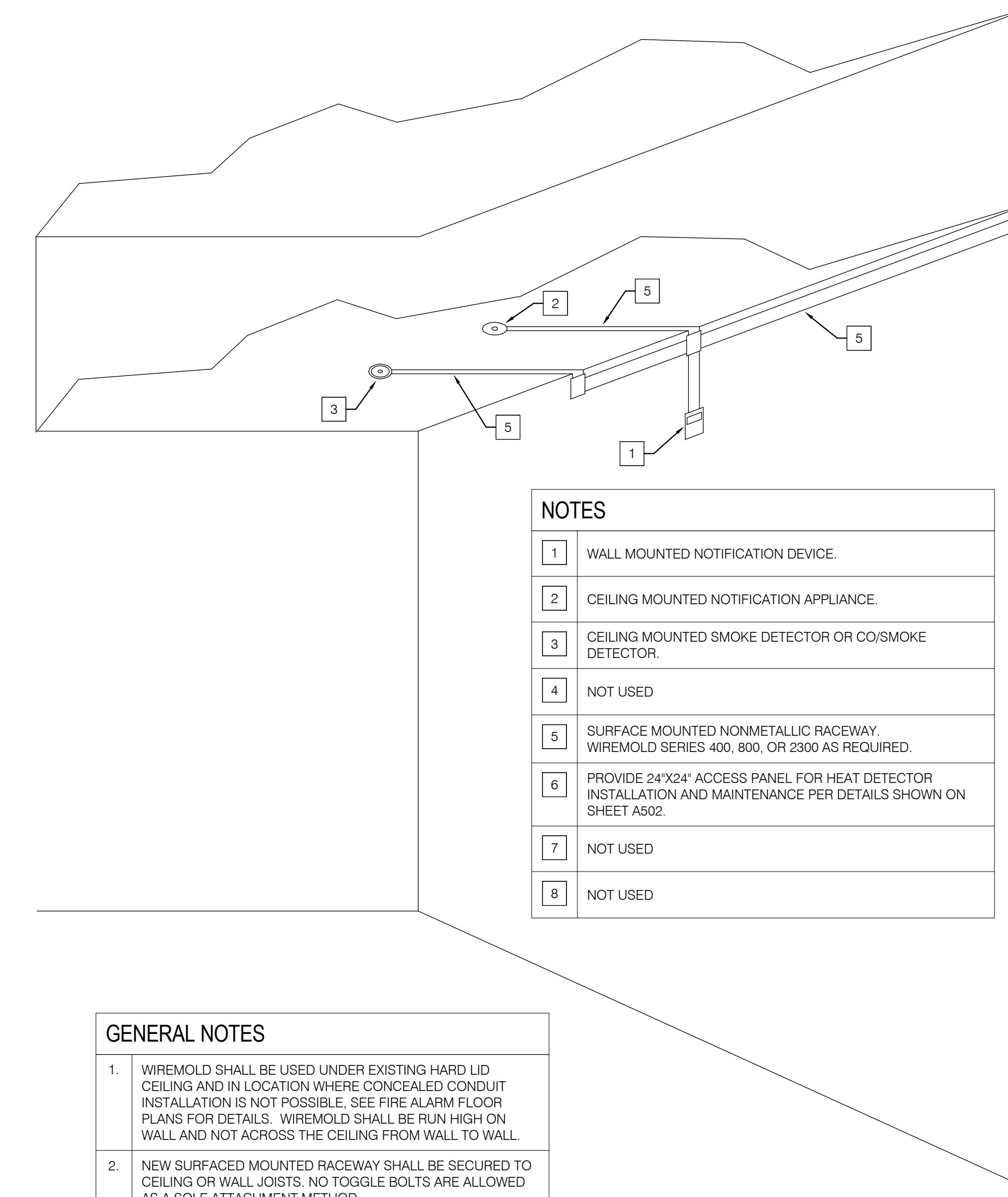
2 INPUT MODEL WIRING  
 NO SCALE



3 DEVICE INSTALLATION NFPA 72  
 NO SCALE



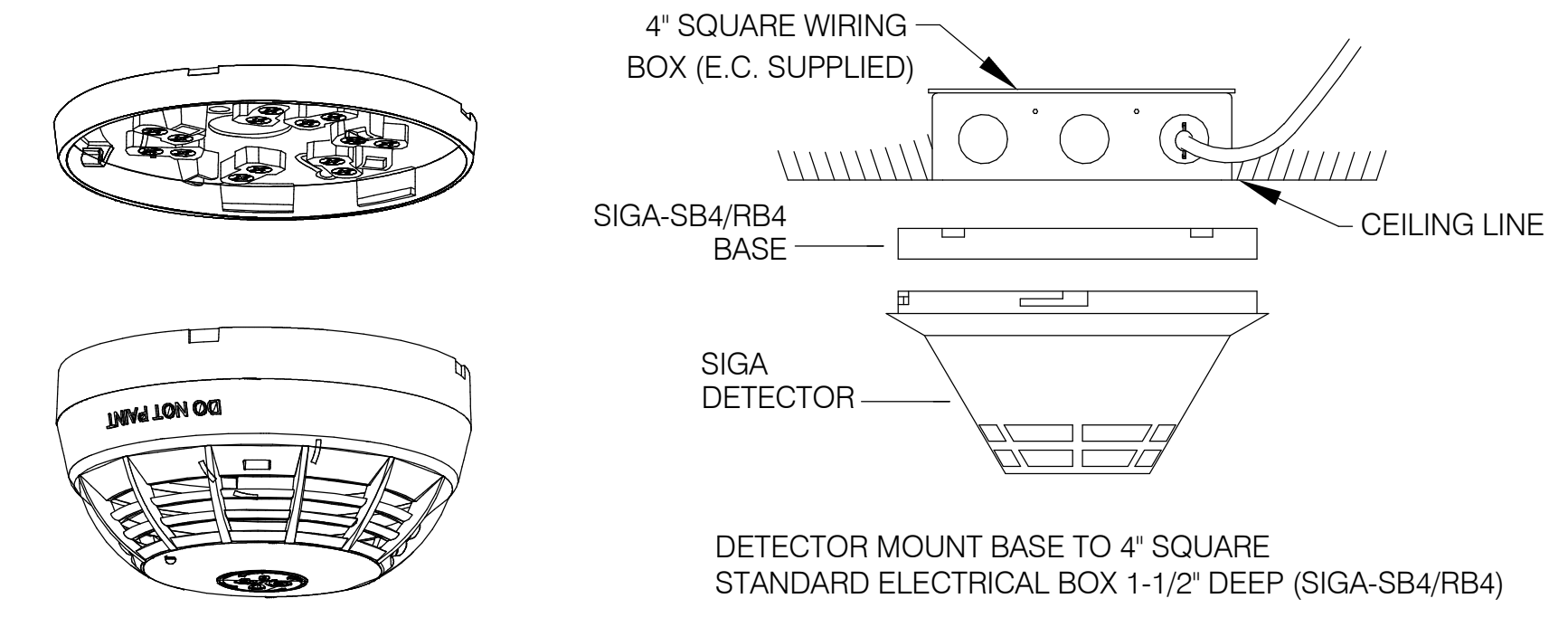
1 DEVICE INSTALLATION AT T-BAR  
 NO SCALE



NOTES	
1	WALL MOUNTED NOTIFICATION DEVICE.
2	CEILING MOUNTED NOTIFICATION APPLIANCE.
3	CEILING MOUNTED SMOKE DETECTOR OR CO/SMOKE DETECTOR.
4	NOT USED
5	SURFACE MOUNTED NONMETALLIC RACEWAY. WIREMOLD SERIES 400, 800, OR 2300 AS REQUIRED.
6	PROVIDE 24"X24" ACCESS PANEL FOR HEAT DETECTOR INSTALLATION AND MAINTENANCE PER DETAILS SHOWN ON SHEET A502.
7	NOT USED
8	NOT USED

GENERAL NOTES	
1.	WIREMOLD SHALL BE USED UNDER EXISTING HARD LID CEILING AND IN LOCATION WHERE CONCEALED CONDUIT INSTALLATION IS NOT POSSIBLE. SEE FIRE ALARM FLOOR PLANS FOR DETAILS. WIREMOLD SHALL BE RUN HIGH ON WALL AND NOT ACROSS THE CEILING FROM WALL TO WALL.
2.	NEW SURFACED MOUNTED RACEWAY SHALL BE SECURED TO CEILING OR WALL JOISTS. NO TOGGLE BOLTS ARE ALLOWED AS A SOLE ATTACHMENT METHOD.

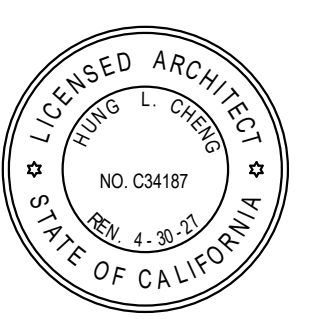
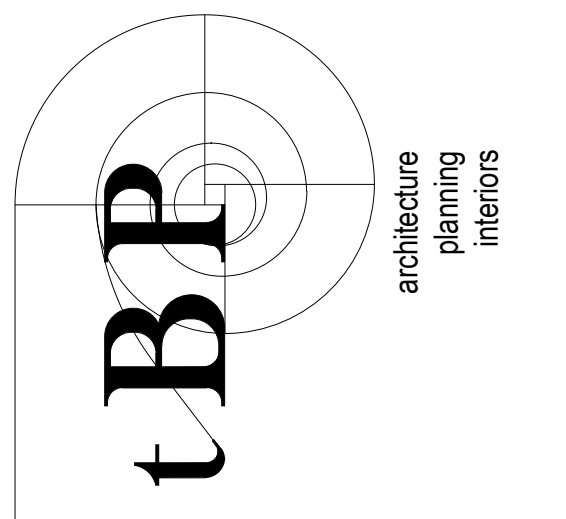
**2** DEVICE INSTALLATION AT HARD LID  
NO SCALE



**1** SMOKE OR HEAT DETECTOR MOUNTING  
NO SCALE

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## LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT -NUMBER ON TOP DENOTES DETAIL NUMBER -NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	-NUMBER ON TOP DENOTES PIPE SIZE -NUMBER ON BOTTOM DENOTES PIPE LENGTH
	NODE USED IN CALCULATION
	SECTION CALLOUT
	FIRE SPRINKLER PIPE ABOVE FINISHED FLOOR. SEE PLAN FOR ELEVATION.
	CEILING HEIGHT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	CHANGING PIPE SIZE
	NEW PIPE
	EXISTING PIPE
	DEMOLISHED PIPE/EQUIPMENT
	THRUST BLOCK
	SHUT OFF / DRAIN VALVE
	CHECK VALVE
	BACKFLOW PREVENTER - REDUCED PRESSURE ZONE (RPZ) TYPE
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	UPRIGHT SPRINKLER
	PENDENT SPRINKLER
	LATERAL BRACE
	LONGITUDINAL BRACE
	FOUR-WAY BRACE
	WIRE, SURGE RESTRAINER
	PIPE HANGER
	CHANGE IN PIPE ELEVATION
	ELBOW FACING AWAY FROM VIEWER
	ELBOW FACING TOWARD VIEWER
	TEE FACING AWAY FROM VIEWER
	TEE FACING TOWARD VIEWER
	THREADED CAP
	FIRE STOP SYMBOL
	ONE HOUR FIRE RATED WALL

## ABBREVIATIONS

ABBREVIATION	DESCRIPTION
(N)	NEW
AFF	ABOVE FINISHING FLOOR
ADR	ARCHITECT OF RECORD
BRV	BUTTERFLY VALVE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DI	DUCTILE IRON PIPE
EOR	ENGINEER OF RECORD
EXIST / (E)	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
PIV	POST INDICATOR VALVE
PVC	POINT OF CONNECTION
PVCL	POLYVINYL CHLORIDE
UG	UNDERGROUND

## BUILDING DESIGN INFORMATION

BUILDING DESIGN INFORMATION:	
-GOVERNING BUILDING CODE=	2022 CBC, CAC, CFC, CMC, CPC, CEC
-BUILDING OCCUPANCY=	A-3, B
-CONSTRUCTION TYPE=	TYPE I-B, SPRINKLERED
-BUILDING HEIGHT=	35 FT
-BUILDING AREA=	54,935 SF
-DESIGN STANDARD=	2022 NFPA 13

SPRINKLER DESIGN CRITERIA:	
-CLASSIFICATION OF OCCUPANCY=	OFFICES, COMMON AREAS
-DESIGN DENSITY=	LIGHT HAZARD
-DESIGN AREA=	1500
-DEFLECTOR DISTANCE=	1'-12"
-MAX AREA COVERAGE=	225 SQFT

## SCOPE OF WORK

UPGRADE THE EXISTING FIRE SPRINKLER SYSTEM WITHIN THE REMODELED AREA OF THE 2ND FLOOR EXECUTIVE OFFICES TO ENSURE FULL CODE-COMPLIANT COVERAGE. MODIFY AND/OR EXTEND THE EXISTING FIRE SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE NEW WALL AND CEILING LAYOUTS.

THERE ARE NO CHANGES TO THE EXISTING OCCUPANCY CLASSIFICATION, SPRINKLER ELEVATION, SPRINKLER MAXIMUM SPACING OR OVERALL SYSTEMS CONFIGURATION.

## OVERHEAD FIRE SPRINKLER SYSTEM NOTES

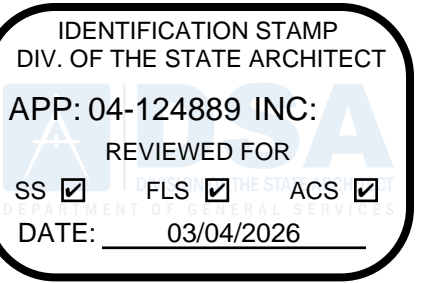
- 2022 NFPA 13 SEC. 16.2.1.1 UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO THE OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING (WITNESSED BY THE PROJECT INSPECTOR).
- ARCHITECT OF RECORD & FIRE PROTECTION SHALL AFFIX THEIR SEAL AND STAMP & SIGN ALL SUBMITTAL DRAWINGS, OR PROVIDE DOCUMENTATION PER DSA IR A-18.
- 2022 NFPA 13 SEC. 16.2.7: PROVIDE SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEWER THAN 6 SPARE HEADS MATCHING THE TYPES AND TEMPERATURE RATINGS AT EACH SYSTEM RISER.
- 2022 NFPA 13 SEC. 18.6.3. THE END SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.
- 2022 NFPA 13 SEC. 16.14.1.1: AN ALARM TEST CONNECTION NOT LESS THAN 1" IN DIAMETER, TERMINATING IN A SMOOTH BORE CORROSION-RESISTANT ORIFICE, GIVING A FLOW EQUAL TO OR LESS THAN ONE SPRINKLER OF A TYPE HAVING THE SMALLEST K-FACTOR INSTALLED ON THE PARTICULAR SYSTEM, SHALL BE PROVIDED TO TEST EACH WATERFLOW ALARM DEVICE FOR EACH SYSTEM.
- 2022 NFPA 72 SEC 17.13.2: THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTORS TEST VALVE IS ACTIVATED AN ALARM WILL SOUND NO MORE THAN 90 SECONDS AFTER INITIAL FLOW. (WITNESSED BY THE PROJECT INSPECTOR).
- 2022 NFPA 13 SEC. 29.6: SIGNAGE SHALL BE PROVIDED AS REQUIRED.
- 2022 CBC SEC. 903.4: VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES AND WATERFLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY SUPERVISED BY A LISTED FIRE ALARM CONTROL UNIT.
- 2022 NFPA 13 SEC. 29.4: A PERMANENT HYDRAULIC CALCULATIONS DESIGN DATA PLACARD SHALL BE ATTACHED TO EACH RISER.
- 2022 CBC 903.4.2: ONE EXTERIOR APPROVED AUDIBLE DEVICE, LOCATED ON THE EXTERIOR OF THE BUILDING IN AN APPROVED LOCATION, SHALL BE CONNECTED TO EACH AUTOMATIC SPRINKLER SYSTEM. SUCH SPRINKLER WATERFLOW ALARM DEVICES SHALL BE ACTIVATED BY WATERFLOW EQUIVALENT TO THE FLOW OF A SINGLE SPRINKLER OF THE SMALLEST ORIFICE SIZE INSTALLED IN THE SYSTEM, WHERE A FIRE ALARM SYSTEM IS INSTALLED. ACTUATION OF THE AUTOMATIC SPRINKLER SYSTEM SHALL ACTUATE THE BUILDING FIRE ALARM SYSTEM.
- CALIFORNIA CODE OF REGULATIONS, TITLE 19, DIVISION 1, SEC. 904.0(1): WATER-BASED FIRE PROTECTION SYSTEMS SHALL BE INSPECTED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE FREQUENCIES REQUIRED BY 2011 NFPA 25, INCLUDING ANNEXES A, B, C, D, E, F AND G AS AMENDED BY THE STATE OF CALIFORNIA (PUBLISHED AS NFPA 25, 2013 CALIFORNIA EDITION).
- 2022 NFPA 13 FIGURE 29.1: SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTORS' MATERIAL & TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO DSA FOR FILING IN PROJECT RECORDS.
- ALL SPRINKLER FITTERS WORKING ON THIS PROJECT MUST BE AES CERTIFIED THROUGH CSFM & MUST CARRY CERTIFICATION CARD WITH THEM ON JOB SITE.

## SHEET INDEX

SHEET	DESCRIPTION
FP001	NOTES, LEGENDS, ABBREV. & INDEX
FPD101	ENLARGED 2ND FLOOR DEMOLITION PLAN
FPD102	ENLARGED 2ND FLOOR DEMOLITION RCP
FP201	OVERALL 2ND FLOOR PLAN
FP301	ENLARGED 2ND FLOOR RENOVATION PLAN
FP302	ENLARGED 2ND FLOOR RENOVATION RCP
FP601	DETAILS

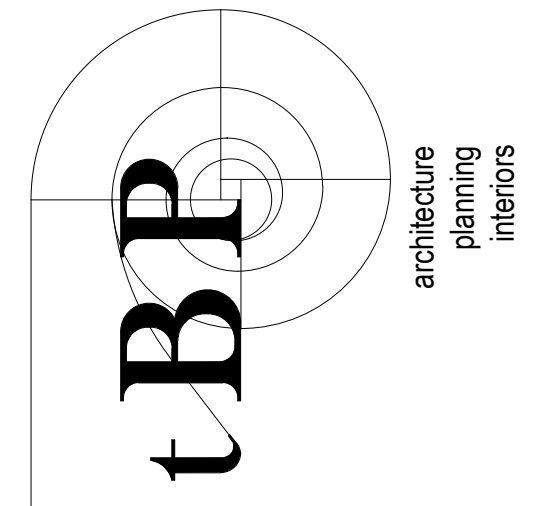
## GENERAL NOTES

- THE SUCCESSFUL C-16 LICENSED CONTRACTOR SHALL COORDINATE WITH ALL ENGINEERING DISCIPLINES & ARCHITECT FOR THE INSTALLATION FIRE SPRINKLER SYSTEM FOR ALL CONCEALED AND UNCONCEALED AREAS OF THE BUILDINGS AS REQUIRED.
- CONTRACTOR SHALL INSTALL, ROUTE AND SUPPORT AUTOMATIC SPRINKLER SYSTEM PER REQUIREMENTS OF THE CURRENT NATIONAL FIRE PROTECTION ASSOCIATION CODE (NFPA), 2022 NFPA 13, 2022 CALIFORNIA BUILDING CODE / CALIFORNIA FIRE CODE (CBC/CFC) CHAPTER 9, CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA PLUMBING CODE (CPC) AND INSURANCES UNDER WRITERS' REQUIREMENTS.
- THE DESIGN COORDINATION AND APPROVALS OF ALL MAINS AND BRANCHES LINES TO SERVE SPRINKLERS SHALL BE DONE BY A LICENSED FIRE PROTECTION CONTRACTOR.
- CONTRACTOR SHALL DEVELOP THEIR OWN MODEL FOR THE ERECTION AND CONSTRUCTION OF THE FIRE SPRINKLER SYSTEM. CONTRACTOR SHALL SUBMIT THEIR SHOP DRAWINGS TO THE ARCHITECT OR RECORD (AOR) AND ENGINEER OF RECORD (EOR) FOR REVIEW. CONTRACTOR SHALL NOT COMMENCE WORK UNTIL AFTER AOR AND EOR HAVE COMPLETED A REVIEW OF THE SHOP DRAWINGS.
- EXISTING WORK DAMAGED OR CUT INTO DURING CONSTRUCTION SHALL BE PATCHED OR REPAIRED, PAINTED AND FINISHED TO MATCH EXISTING ADJACENT SURFACES IN TEXTURE, FINISH AND COLOR.
- LOCATION OF SPRINKLER HEADS SHALL BE DONE BY THE FIRE PROTECTION CONTRACTOR USING THE CRITERIA AS NOTED BELOW:
  - IN LOCATIONS WITH SUSPENDED CEILING, THE SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE INDIVIDUAL CEILING TILES. THE SPRINKLER HEADS PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS MUCH AS POSSIBLE. IN PANELS HAVING A FACTORY-MADE REVEAL, SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF AN INDIVIDUAL SEGMENT.
  - IN LOCATIONS WITH PLASTERED OR GYPSUM BOARD CEILINGS, THE SPRINKLER HEAD PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS MUCH AS POSSIBLE.
  - FOR LOCATIONS OF CEILING TILES, DIFFUSERS AND LIGHTS, SEE ARCHITECTURAL REFLECTED CEILING PLANS.
- ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF RENOVATION / NEW CONSTRUCTION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (UL), AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- NO HOLES SHALL BE DRILLED OR CUT IN OR THROUGH ANY STRUCTURAL ELEMENT WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- WHERE PIPE PASSES THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALLS OR FLOORS, THE HOLES SHALL BE SIZED SUCH THAT THE DIAMETER OF THE HOLES IS NOMINALLY 2" LARGER THAN THE PIPE FOR PIPE 1" NOMINAL TO 3-1/2" NOMINAL AND 4" LARGER THAN THE PIPE FOR PIPE 4" NOMINAL AND LARGER, UNLESS OTHERWISE PERMITTED BY NFPA 13 2022 SEC. 18.4.2. REFER TO ARCHITECTURAL FIRE RATED WALL PENETRATION DETAILS FOR INSTALLATION INSTRUCTIONS.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED TEMPORARY AND PERMANENT PERMITS, INCLUDING LICENSES, CERTIFICATES, INSPECTIONS AND TESTS.
- SEE DIVISION 21 SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- ALL PIPE PENETRATION THRU WALLS, RATED OR OTHERWISE SHALL BE COVERED WITH A SPLIT ESCUTCHEON PLATE.
- FIELD OBSERVATION AND SUPPORT SERVICES PERFORMED BY THE ENGINEER PRIOR TO, DURING, OR AFTER CONSTRUCTION IS PERFORMED FOR THE PURPOSE OF ACHIEVING QUALITY CONTROL AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- PHASING: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GENERAL CONTRACTOR CONSTRUCTION SCHEDULE AND BASED UPON MINIMIZING DISRUPTIONS TO EXISTING OPERATION. PHASING SHALL BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION OR DEMOLITION.
- ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR PROMPT DAILY REMOVAL FROM THE SITE. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE RESULTING FROM THE WORK AT THE CONCLUSION OF THE DAY'S CONSTRUCTION. THE AREA OF THE SITE SHALL BE LEFT BROOM CLEAN. IF NOT, UPON NOTIFICATION, THE GENERAL CONTRACTOR WILL PERFORM ALL NECESSARY CLEAN-UP WORK AND BACK CHARGE THE SUB CONTRACTOR FOR THE EXPENSE THUS INCURRED.
- ALL DEVICES AND COMPONENTS TO BE EITHER LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR FIRE PROTECTION SERVICE OR APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- FLOOR CONTROL VALVES AND WATERFLOW DETECTION ASSEMBLIES SHALL BE INSTALLED AT EACH FLOOR WHEN REQUIRED BY CBC 2022 SEC. 903.3.9.
- AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED TO BE INSTALLED IN THE ELEVATOR HOISTWAY, ELEVATOR MACHINE ROOM, ELEVATOR MACHINERY SPACE, ELEVATOR CONTROL SPACE OR ELEVATOR CONTROL ROOM WHERE PERMITTED BY THE CBC 2022 SEC. 3005.4.1.
- NFPA 13 2022, CALIFORNIA-AMENDED SEC. 9.3.6.1.1: THE SPRINKLER REQUIRED AT THE TOP AND BOTTOM OF THE ELEVATOR HOISTWAY SHALL NOT BE REQUIRED WHERE PERMITTED BY CH. 30 OF CBC 2022.
- A HYDROSTATIC TEST SHALL BE PERFORMED FOR ALL SYSTEM PIPING AT NOT LESS THAN 200 PSI FOR TWO HOURS, OR 50 PSI ABOVE STATIC PRESSURE IN EXCESS OF 150 PSI FOR TWO HOURS, AND WITNESSED BY A LOCAL FIRE INSPECTOR.
- FIRE SPRINKLER FLOW ALARM BELL WILL BE INSTALLED ON THE ADDRESS SIDE OF THE BUILDING AND WILL BE EQUIPPED WITH THE PROPER SIGNAGE IDENTIFYING THE ALARM BELL.
- ALL CONTROL VALVES AND DRAIN VALVES SHALL HAVE A SIGN AFFIXED FOR IDENTIFICATION.
- ALL MECHANICALLY JOINED PIPING SHALL BE SCHEDULE 10 WITH ROLL GROOVED ENDS AND MECHANICAL FITTINGS. COUPLINGS SHALL BE RIGID TYPE, UNLESS OTHERWISE NOTED.
- ALL THREADED PIPING SHALL BE SCHEDULE 40 WITH CUT THREADS AND CLASS 125 CAST IRON FITTINGS.
- THE FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY AN APPROVED LISTED CENTRAL MONITORING STATION.
- HANGER LOCATION FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13 2022, SEC. 17.4 AND 17.5. SEE HANGER SCHEDULE AND/OR DETAILS FOR TYPES OF HANGERS USED. PROVIDE UL AND/OR FM LITERATURE TO INSPECTOR OF RECORD AND ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- PROVIDE RIGID COUPLINGS THROUGHOUT. FLEXIBLE COUPLINGS SHALL BE PROVIDED AS FOLLOWS:
  - WITHIN 24" OF THE TOP AND BOTTOM OF ALL RISERS.
  - WITHIN 12" ABOVE, AND 24" BENEATH FLOORS IN MULTISTORY BUILDINGS.
  - ON BOTH SIDES OF CONCRETE OR MASONRY WALLS WITHIN 12" OF THE WALL SURFACE.
  - WITHIN 24" OF BUILDING EXPANSION JOINTS.
  - WITH 24" OF THE TOP OF DROPS EXCEEDING 15 FEET IN LENGTH TO PORTIONS OF SYSTEM SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE.
  - ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE.
- BRANCH LINES SHALL BE LATERALLY RESTRAINED AT INTERVALS NOT EXCEEDING THOSE SPECIFIED IN NFPA 13 2022 TABLE 18.6.4(a) BASED ON BRANCH LINE DIAMETERS AND THE VALUE OF C<sub>p</sub>. REFER TO DETAIL SHEETS FOR INSTALLATION DETAILS AND C<sub>p</sub> VALUE.
- ALL WELDING TO BE DONE BY CERTIFIED WELDERS.
- INSPECTORS TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE PER NFPA 13 2022 (UNLESS NOTED OTHERWISE) AND SHALL BE SHOWN ON SHOP DRAWINGS. MOUNTING HEIGHTS OF CONTROL VALVES BE 5'-0" A.F.F. MOUNT CONTROL VALVES FOR INSPECTOR CONNECTION AND LOW POINT DRAINS INSIDE BUILDING. PIPE DRAIN LINES TO THE SANITARY DRAIN OR OTHER APPROVED LOCATION.
- SPRINKLER CONTRACTOR TO COORDINATE AND ADJUST SPRINKLERS TO ELECTRICAL, MECHANICAL, STRUCTURE AND ALL OTHER TRADES AT NO ADDITIONAL COST TO THE OWNER.
- OWNER TO BE PROVIDED WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK (NFPA 25 - CALIFORNIA AMENDED) AND A SPARE HEAD CABINET WITH SPRINKLERS AND A WRENCH PER NFPA 13.
- DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING ALL MATERIALS AND EQUIPMENT ON THE JOB SITE, INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.
- SPRINKLER CONTRACTOR SHALL BE FIELD VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION.
- REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL FIRE LINE INFORMATION.
- REFER TO THE ARCHITECTURAL DRAWING FOR ACTUAL BUILDING DIMENSIONS AND DETAILS. DO NOT SCALE "FP" DRAWINGS FOR CONSTRUCTION PURPOSES.
- INSTALLATION OF SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL DRAWINGS, SPECIFICATIONS, AND CALCULATIONS HAVE BEEN APPROVED BY DSA AND EOR.
- PIPE LENGTHS SHOWN ON PLANS ARE CENTERLINE OF FITTING TO CENTERLINE OF FITTING DIMENSIONS. FIELD FABRICATION OF PIPE LENGTHS IS NOT ALLOWED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
- A SINGLE AIR VENT SHALL BE PROVIDED ON EACH WET PIPE SYSTEM UTILIZING METALLIC PIPE. THE VENT SHALL BE LOCATED NEAR A HIGH POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED FROM THAT PORTION OF THE SYSTEM BY AN AUTOMATIC OR A 1/2" MANUAL VALVE.

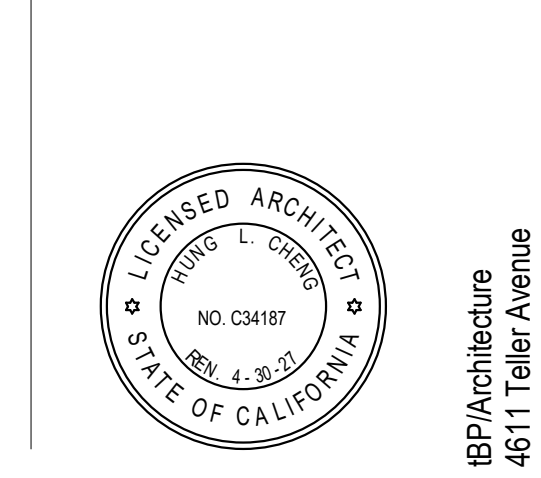


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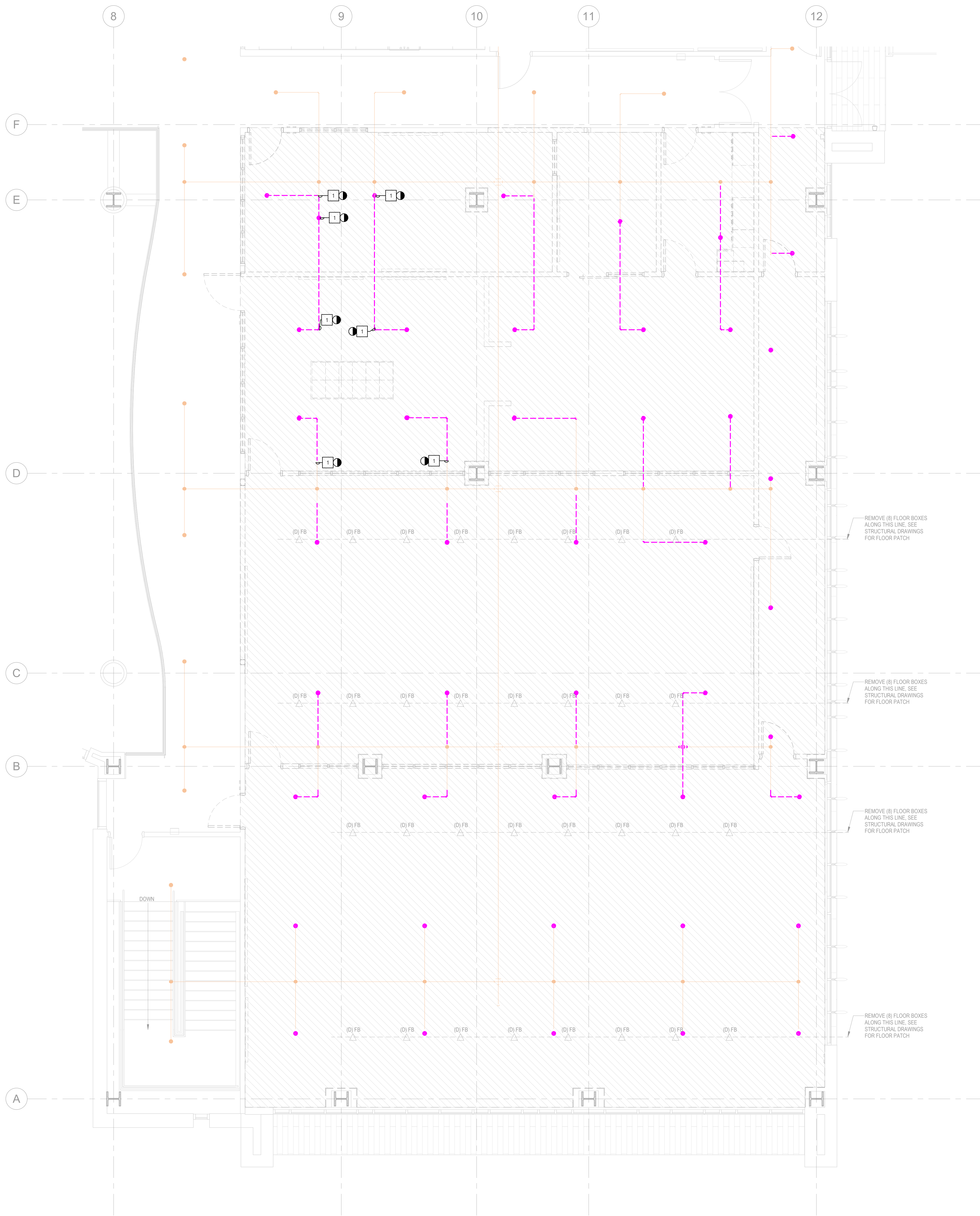
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NOTES, LEGENDS,  
ABBREV. & INDEX

drawing no.:

FP001

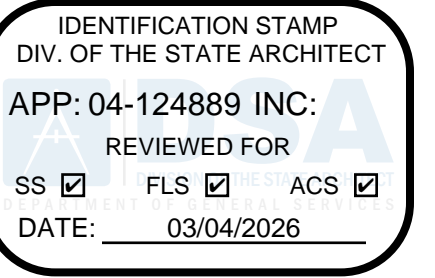


**GENERAL NOTES**

- A. REUSE EXISTING OUTLETS WHERE POSSIBLE. CAP ALL UNUSED BRANCH LINES.

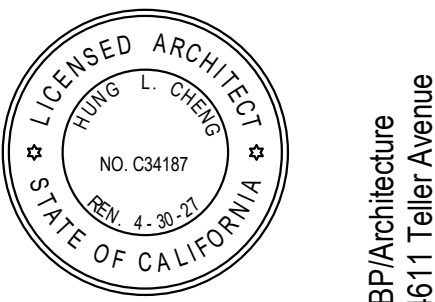
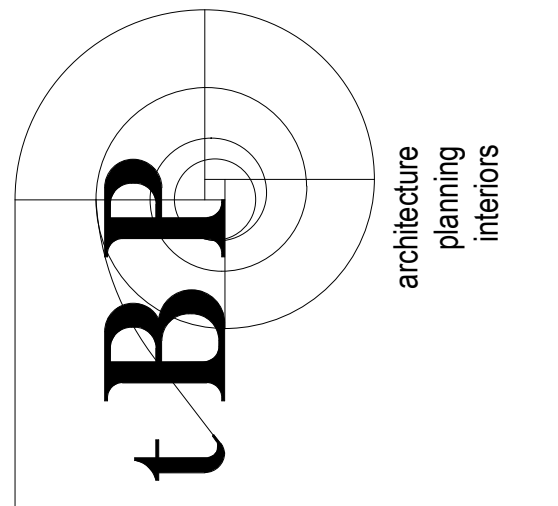
**NOTES**

- 1 POINTS OF DISCONNECTION, TYP.



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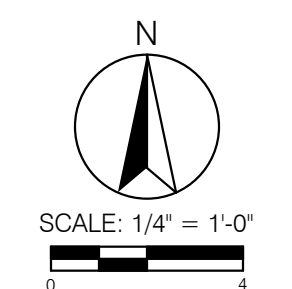
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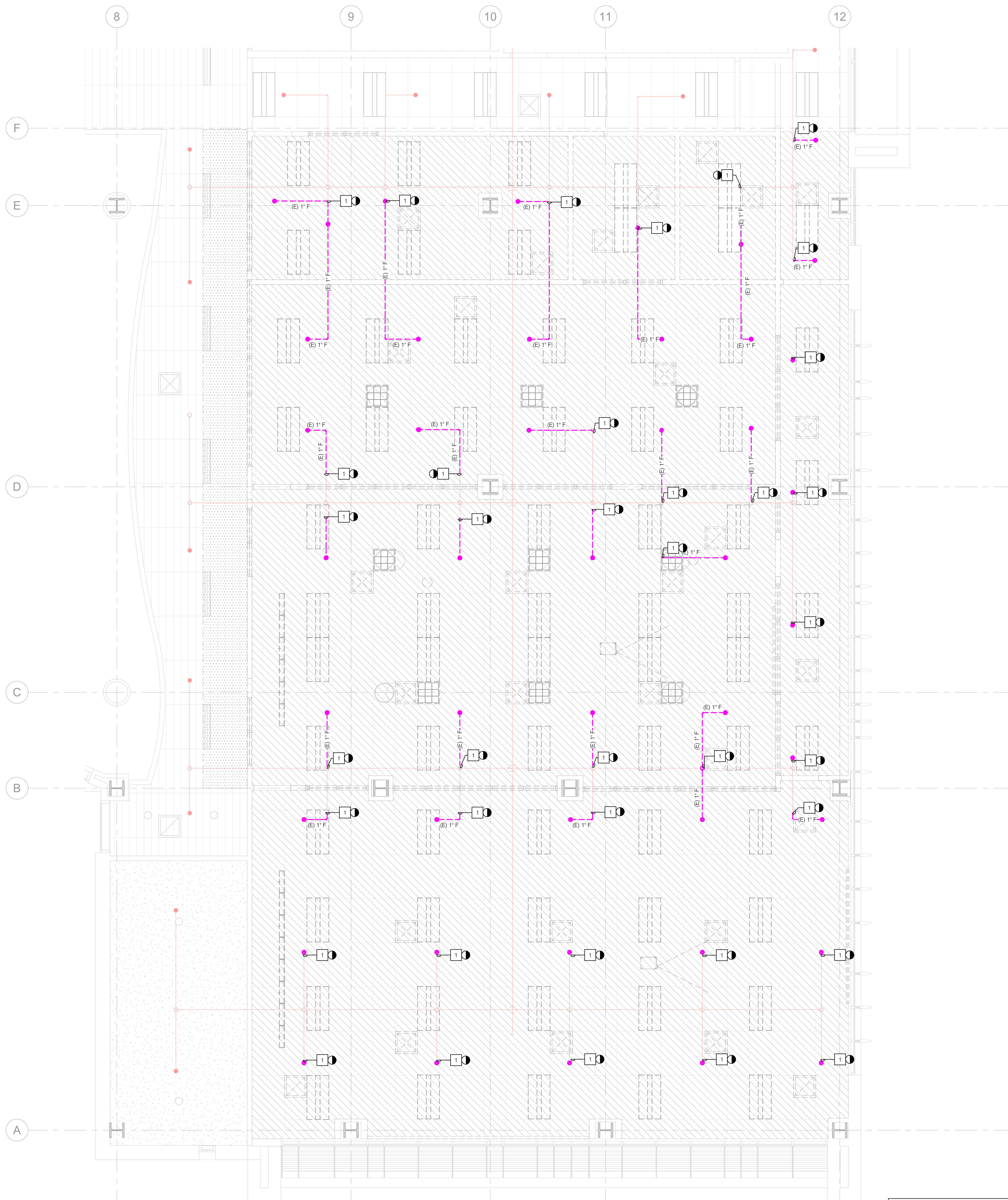
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DEMOLITION PLAN**

drawing no.:

**FPD101**



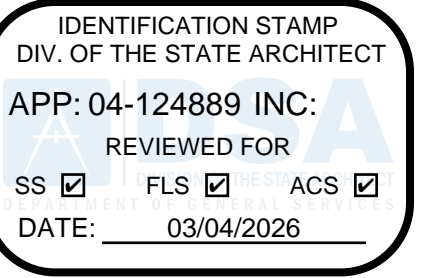


**GENERAL NOTES**

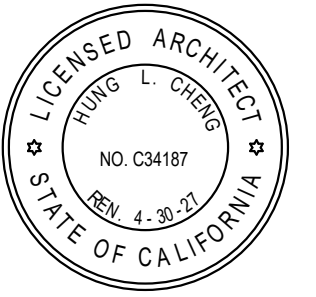
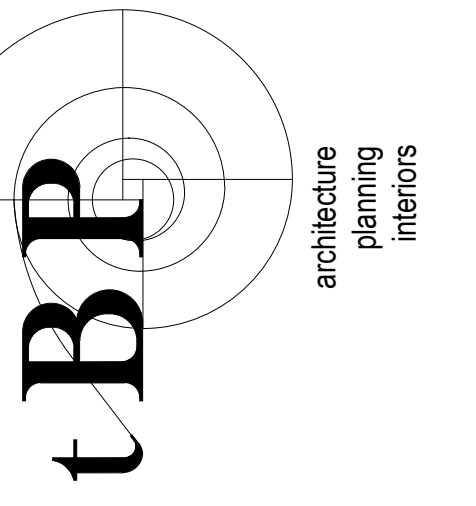
- A. REUSE EXISTING OUTLETS WHERE POSSIBLE. CAP ALL UNUSED BRANCH LINES.

**NOTES**

- 1 POINTS OF DISCONNECTION, TYP.



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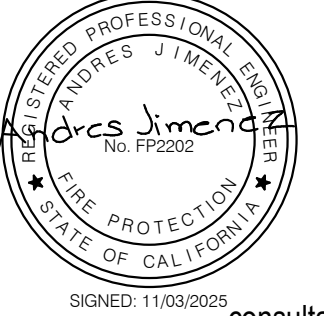


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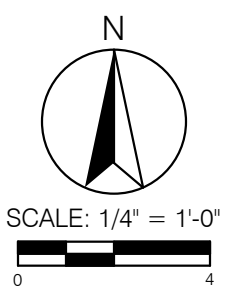
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**ENLARGED 2ND FLOOR  
DEMOLITION RCP**

drawing no.:

**FPD102**

**SPRINKLER HEAD SCHEDULE AND LEGEND**

SYMBOL	LOCATION	MANUFACTURER	SIN	K-FACTOR	SR/SQ	TYPE	TEMP.	FINISH	THREAD SIZE	REMARKS
●	GYP. BOARD/ ACoust. TILES	VIKING	VK4621	5.6	QR	SSP	155°	BRASS	1/2"	CONCEALED PENDENT SPRINKLER. MATCH COVER PLATE COLOR TO CEILING.





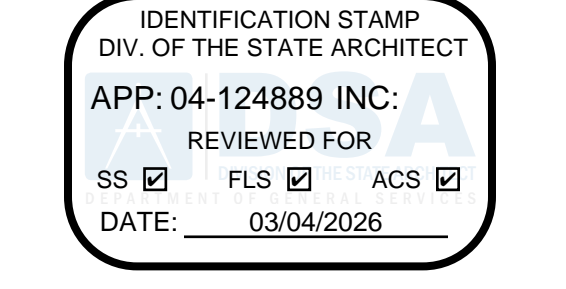


**GENERAL NOTES**

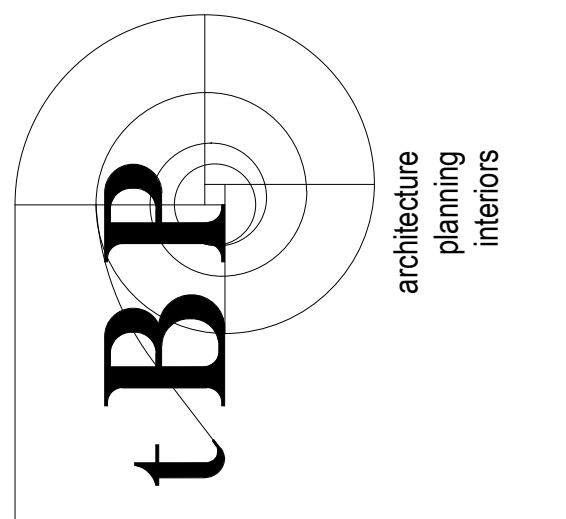
- REUSE EXISTING OUTLETS WHERE POSSIBLE. CAP ALL UNUSED BRANCH LINE OUTLETS AS INDICATED.
- PENDENT SPRINKLER HEADS ON ACOUSTIC CEILING TILES (ACT) SHALL BE CENTERED IN THE TILES AS INDICATED.
- UPRIGHT SPRINKLER HEADS IN AREAS DEFINED AS UNOBSTRUCTED CONSTRUCTION PER NFPA 13 SECTION 3.3.43.2, SHALL BE INSTALLED WITHIN 12 IN. OF THE DECK.
- UPRIGHT SPRINKLER HEADS IN AREAS DEFINED AS OBSTRUCTED CONSTRUCTION PER NFPA 13 SECTION 3.3.43.1, SHALL BE INSTALLED WITHIN 22 IN. OF THE DECK.

**NOTES**

- CAP UNUSED BRANCH LINE OUTLETS (TYP.).
- POINT OF CONNECTION TO EXISTING SYSTEM. SEE DETAIL 4/FP601, TYP.
- BRANCH LINE RESTRAINT PER 1/FP601, TYP.



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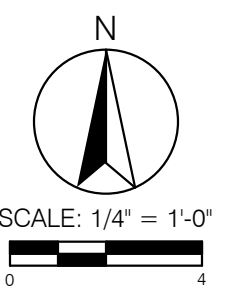
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drawing title:  
**ENLARGED 2ND FLOOR  
RENOVATION PLAN**

drawing no.:  
**FP301**

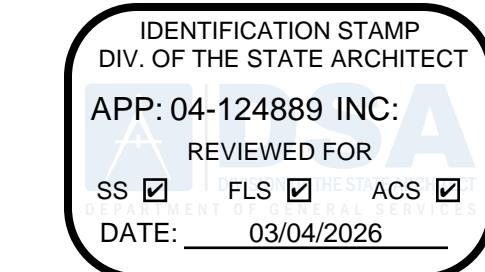
**SPRINKLER HEAD SCHEDULE AND LEGEND**

SYMBOL	LOCATION	MANUFACTURER	SIN	K-FACTOR	SR/SQ	TYPE	TEMP.	FINISH	THREAD SIZE	REMARKS
○	EXPOSED STRUCTURE	VIKING	VK3001	5.6	QR	SSU	200°	BRASS	1/2"	UPRIGHT SPRINKLER
●	GYP. BOARD/ ACOUST. TILES	VIKING	VK4621	5.6	QR	SSP	155°	BRASS	1/2"	CONCEALED PENDENT SPRINKLER. MATCH COVER PLATE COLOR TO CEILING.
●	HARD LID CEILING	VIKING	VK3021	5.6	QR	SSU	155°	BRASS	1/2"	SEMI-RECESSED PENDENT SPRINKLER.

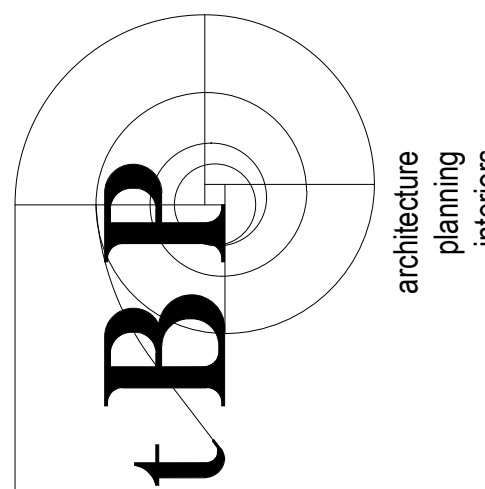


**GENERAL NOTES**

- A. REUSE EXISTING OUTLETS WHERE POSSIBLE. CAP ALL UNUSED BRANCH LINE OUTLETS AS INDICATED.
- B. PENDENT SPRINKLER HEADS ON ACOUSTIC CEILING TILES (ACT) SHALL BE CENTERED IN THE TILES AS INDICATED.
- C. UPRIGHT SPRINKLER HEADS IN AREAS DEFINED AS UNOBSTRUCTED CONSTRUCTION PER NFPA 13 SECTION 3.3.43.2, SHALL BE INSTALLED WITHIN 12 IN. OF THE DECK.
- D. UPRIGHT SPRINKLER HEADS IN AREAS DEFINED AS OBSTRUCTED CONSTRUCTION PER NFPA 13 SECTION 3.3.43.1, SHALL BE INSTALLED WITHIN 22 IN. OF THE DECK.



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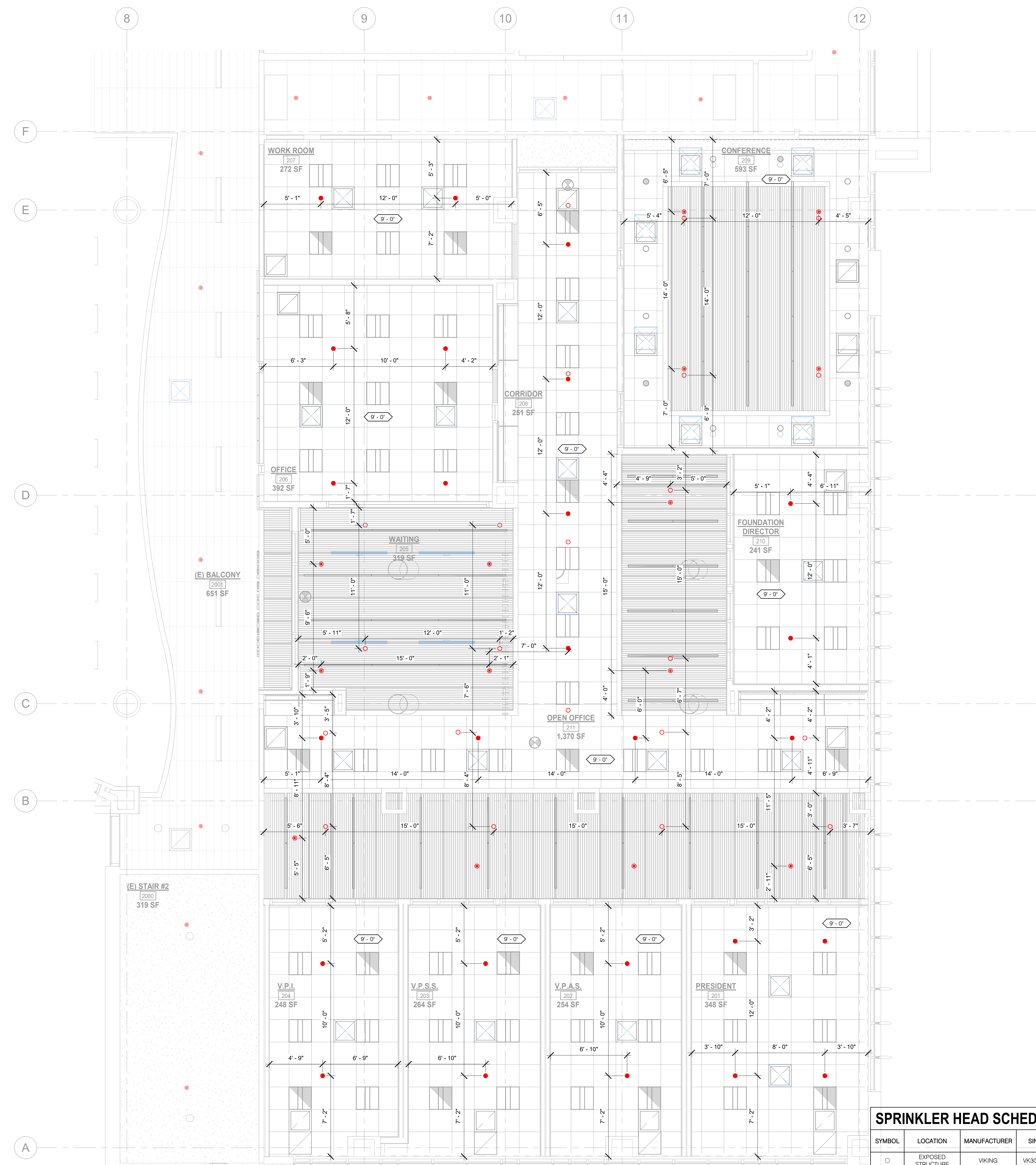
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drawing title:  
**ENLARGED 2ND FLOOR  
RENOVATION RCP**

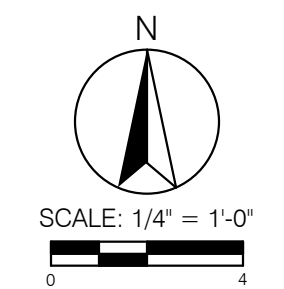
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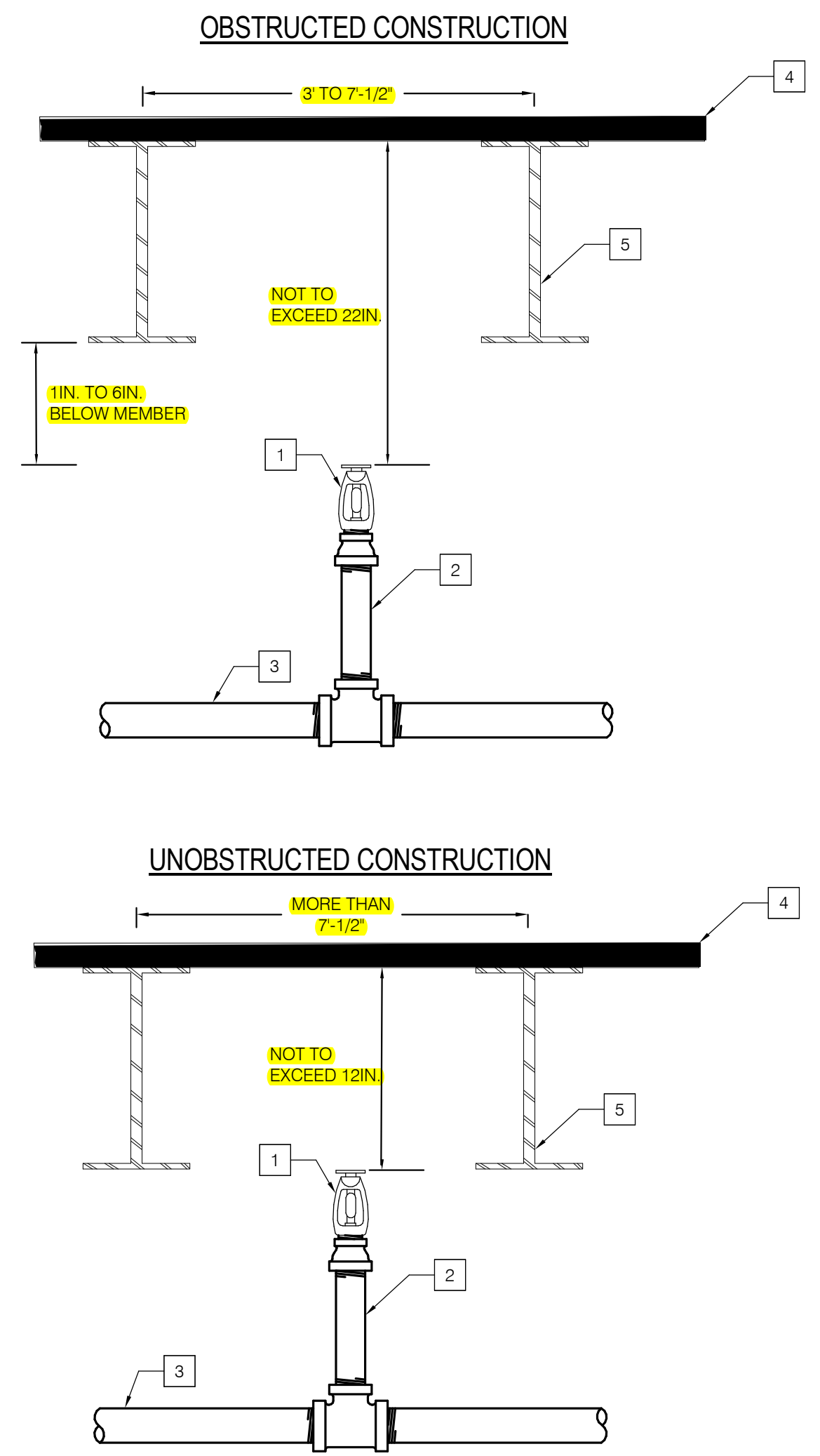
**FP302**



**SPRINKLER HEAD SCHEDULE AND LEGEND**

SYMBOL	LOCATION	MANUFACTURER	SIN	K-FACTOR	SR/SQ	TYPE	TEMP.	FINISH	THREAD SIZE	REMARKS
○	EXPOSED STRUCTURE	VIKING	VK3001	5.6	QR	SSU	200°	BRASS	1/2"	UPRIGHT SPRINKLER
●	GYP. BOARD/ ACOUST. TILES	VIKING	VK4621	5.6	QR	SSP	155°	BRASS	1/2"	CONCEALED PENDENT SPRINKLER. MATCH COVER PLATE COLOR TO CEILING.
⊙	HARD LID CEILING	VIKING	VK3021	5.6	QR	SSU	155°	BRASS	1/2"	SEMI-RECESSED PENDENT SPRINKLER.

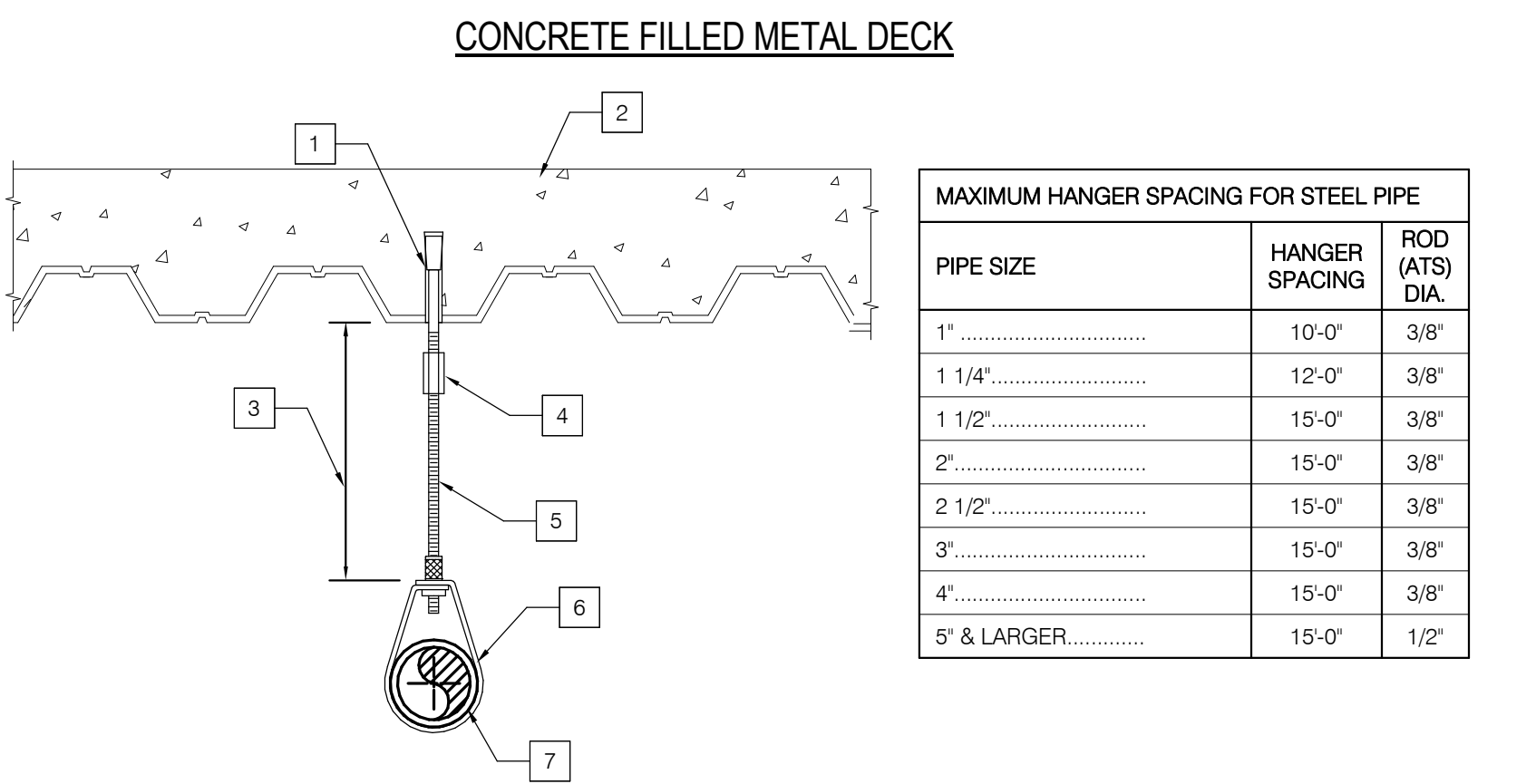




NOTES

1 UPRIGHT SPRINKLER HEAD.	4 ROOF DECK
2 RISER NIPPLE OR SPRIG OFF BRANCHLINE.	5 STRUCTURAL BEAM, TYP.
3 TYPICAL BRANCHLINE.	

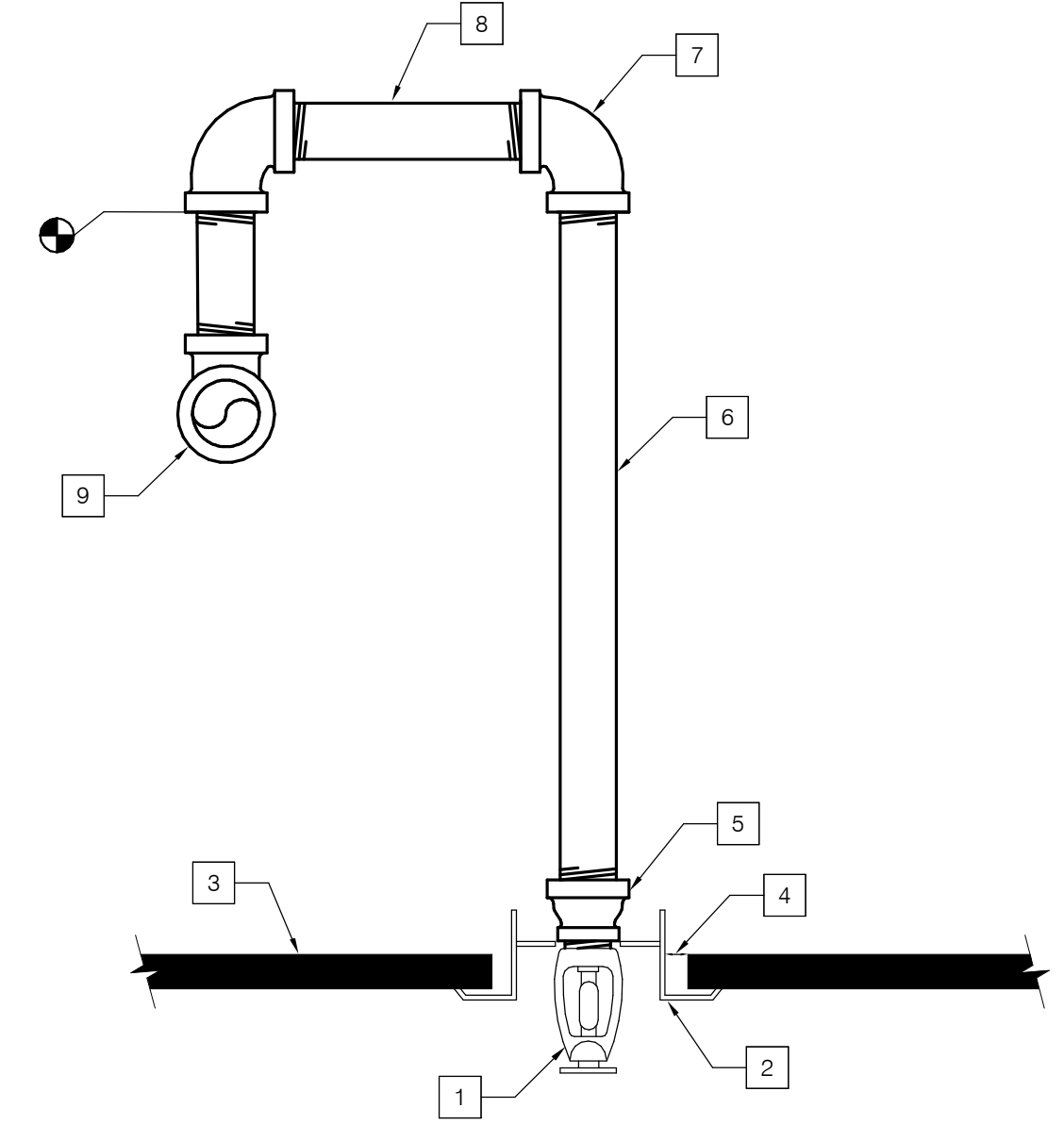
**6 UPRIGHT SPRINKLER DETAIL**  
 NO SCALE



NOTES

1 HILTI "Kwik Bolt T22" CONCRETE EXPANSION ANCHOR WITH 3" EMBEDMENT (ICC ESR-4266) ANCHOR SIZE PER HANGER SPACING TABLE.	4 ROD COUPLER AS REQUIRED.
2 CONCRETE FLOOR OR DECK.	5 ALL THREADED ROD TOLCO FIG. 100 SIZE PER HANGER SPACING TABLE.
3 19" MAX. - FOR A LONGER ROD, USE STIFFENER TOLCO FIG. 98.	6 PIPE RING HANGER TOLCO FIG. 200.
	7 SPRINKLER PIPE PER PLAN.

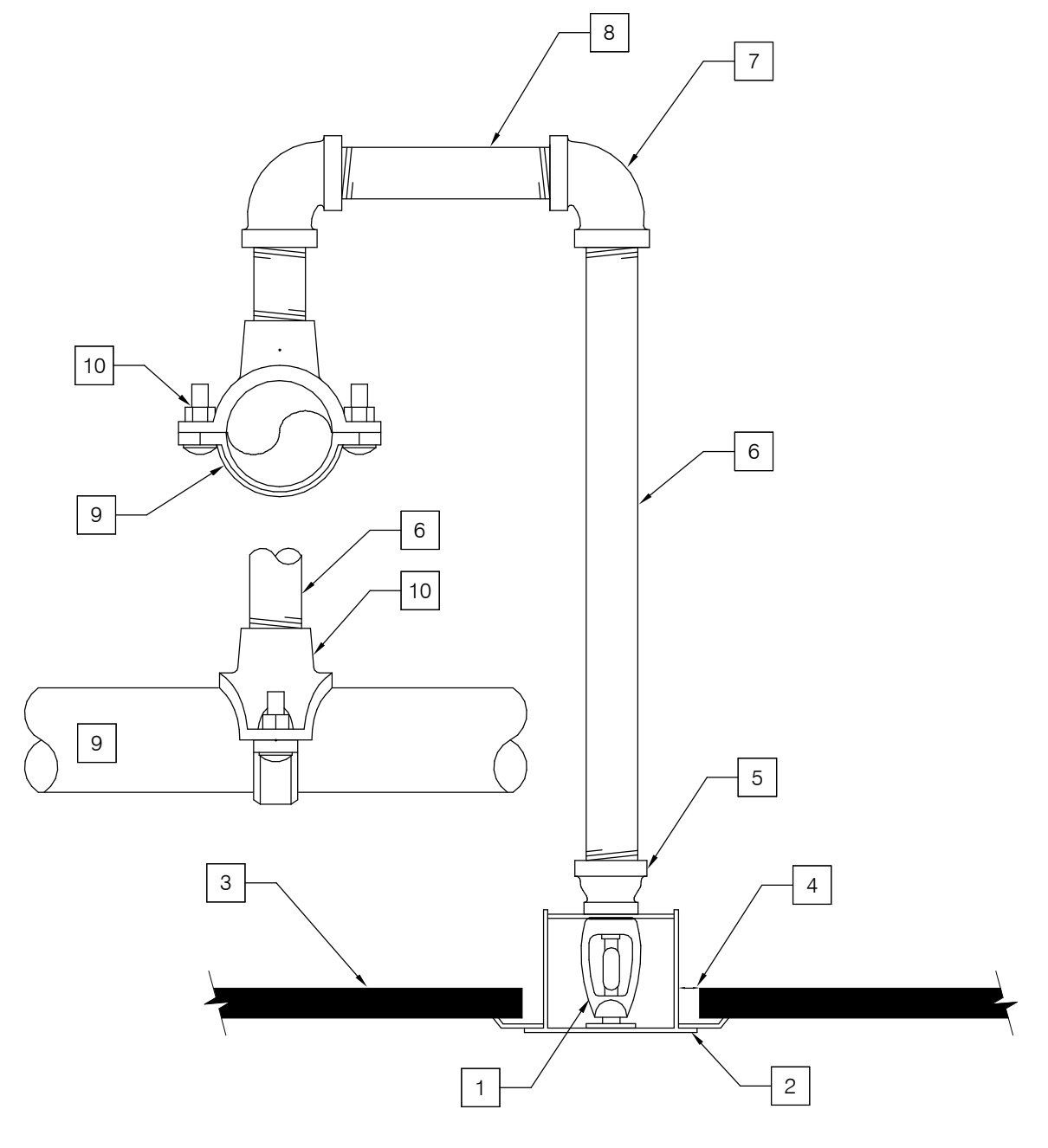
**5 PIPE HANGERS IN CONC. FILLED METAL DECK**  
 NO SCALE



NOTES

1 NEW STANDARD SPRAY GLASS BULB PENDENT SPRINKLER.	6 NEW 1" DROP.
2 NEW RECESSED ESCUTCHEON.	7 NEW 90 DEGREE ELBOW.
3 SUSPENDED CEILING TILE.	8 NEW ARMOVER.
4 PROVIDE 1" ANNUAL CLEARANCE AS REQUIRED BY DSA IR 25-2.1.6.2	9 TYPICAL (E) BRANCHLINE.
5 NEW 1" X 1/2" REDUCER.	

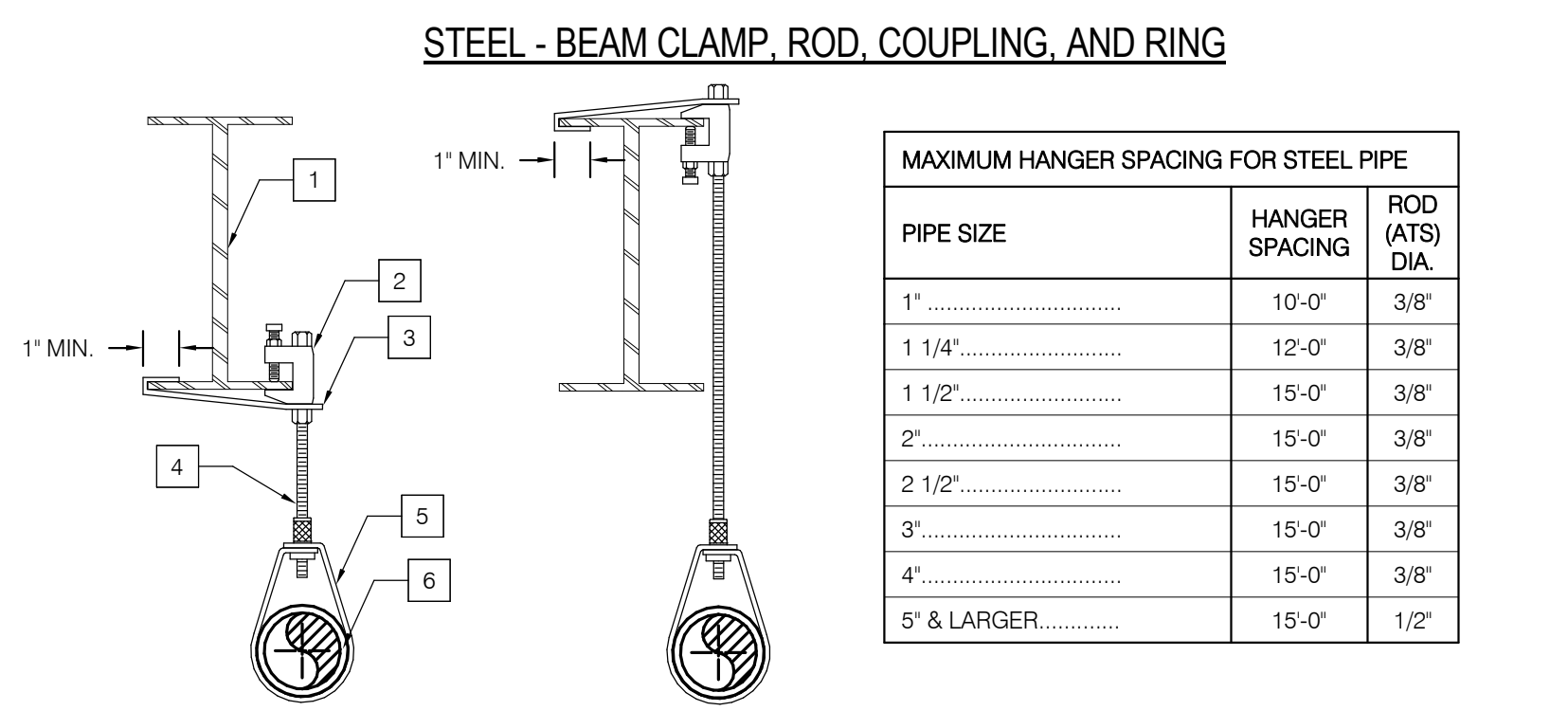
**4 TYP. EXISTING OUTLET ARM-OVER TO NEW SPRINKLER HEAD**  
 NO SCALE



NOTES

1 STANDARD SPRAY GLASS BULB CONCEALED PENDENT SPRINKLER HEAD.	6 1" PIPE.
2 COVER PLATE, TO MATCH CEILINGS.	7 90 DEGREE ELBOW.
3 SUSPENDED CEILING TILE.	8 ARM-OVER. PROVIDE HANGER SUPPORT IF HORIZONTAL LENGTH OF ARM-OVER EXCEEDS 24" PER NFPA 13 17.4.3.5.1.
4 PROVIDE 1" ANNUAL CLEARANCE AS REQUIRED BY DSA IR 25-2.13. 2.6C.	9 TYPICAL BRANCHLINE - EXISTING.
5 1" X 1/2" REDUCER.	10 THREADED OUTLET MECHANICAL TEE.

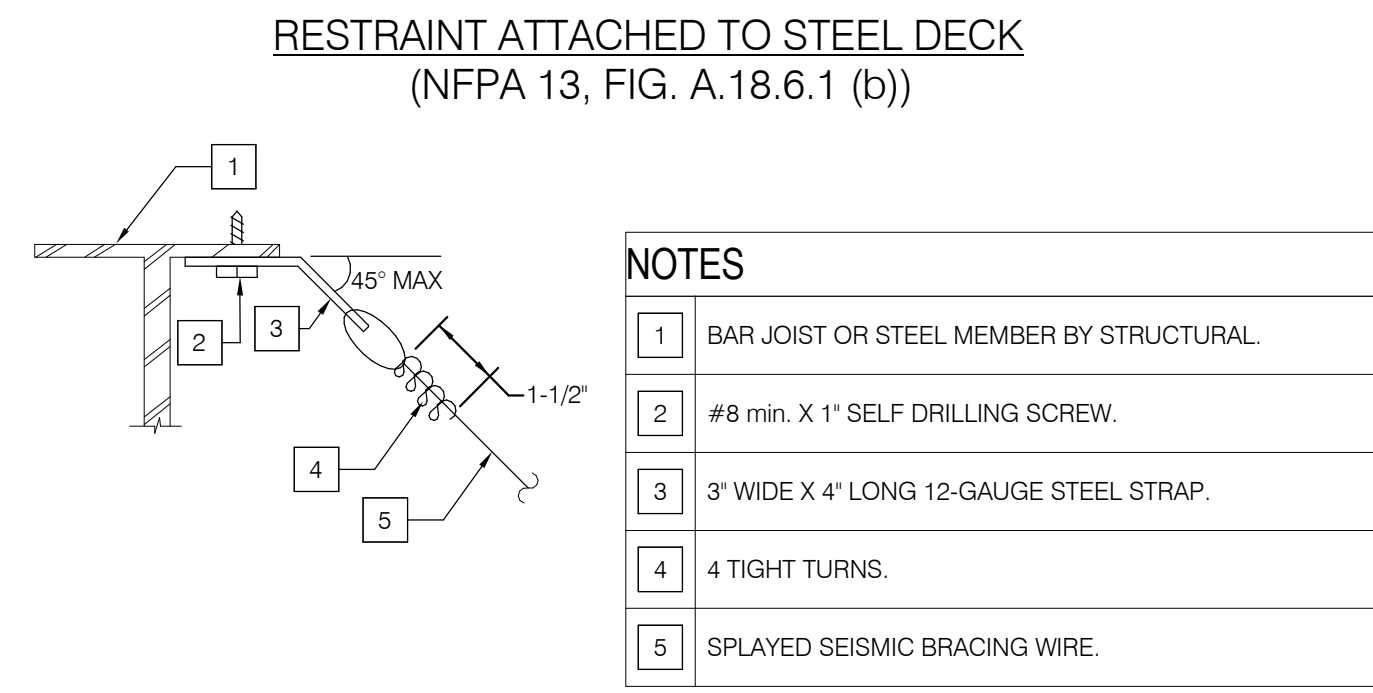
**3 NEW OUTLET ARM-OVER - MECHANICAL TEE**  
 NO SCALE



NOTES

1 BAR JOIST OR STEEL MEMBER BY STRUCTURAL, (TYP).	4 ALL THREADED ROD, TOLCO FIG. 100 (TYP).
2 REVERSIBLE BEAM CLAMP, TOLCO FIG. 65 (TYP).	5 PIPE RING HANGER, TOLCO FIG. 200 (TYP).
3 RESTRAINING STRAP, TOLCO FIG. 69/69R (TYP).	6 SPRINKLER PIPE PER PLAN (TYP).

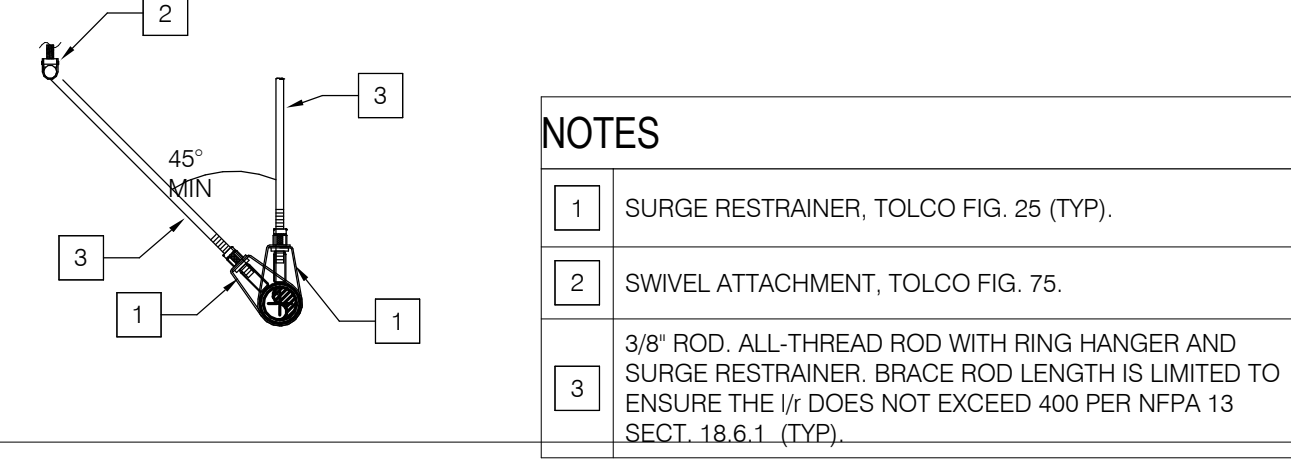
**2 PIPE SUPPORT HANGERS**  
 NO SCALE



NOTES

1 BAR JOIST OR STEEL MEMBER BY STRUCTURAL.
2 #8 min. X 1" SELF DRILLING SCREW.
3 3" WIDE X 4" LONG 12-GAUGE STEEL STRAP.
4 TIGHT TURNS.
5 SPAYED SEISMIC BRACING WIRE.

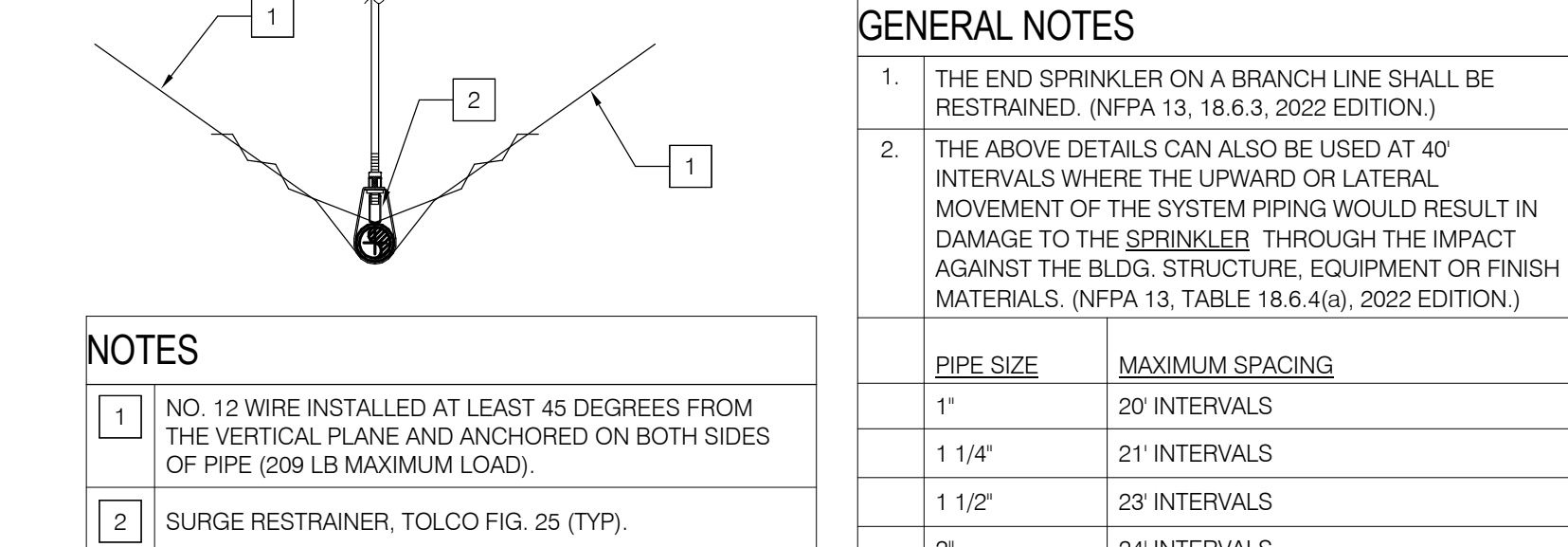
**1 BRANCH LINE SEISMIC RESTRAINT**  
 NO SCALE



NOTES

1 SURGE RESTRAINER, TOLCO FIG. 25 (TYP).
2 SWIVEL ATTACHMENT, TOLCO FIG. 75.
3 3/8" ROD, ALL-THREAD ROD WITH RING HANGER AND SURGE RESTRAINER. BRACE ROD LENGTH IS LIMITED TO ENSURE THE 1/4" DOES NOT EXCEED 400 PER NFPA 13 SECT. 18.6.1. (TYP).

**2 END OF BRANCH LINE SEISMIC RESTRAINT**  
 (NFPA 13, SECTION 18.6.1)



GENERAL NOTES

- THE END SPRINKLER ON A BRANCH LINE SHALL BE RESTRAINED. (NFPA 13, 18.6.1, 2022 EDITION.)
- THE ABOVE DETAILS CAN ALSO BE USED AT 40' INTERVALS WHERE THE UPWARD OR LATERAL MOVEMENT OF THE SYSTEM PIPING WOULD RESULT IN DAMAGE TO THE SPRINKLER THROUGH THE IMPACT AGAINST THE BLDG. STRUCTURE, EQUIPMENT OR FINISH MATERIALS. (NFPA 13, TABLE 18.6.4(a), 2022 EDITION.)

PIPE SIZE	MAXIMUM SPACING
1"	20' INTERVALS
1 1/4"	21' INTERVALS
1 1/2"	23' INTERVALS
2"	24' INTERVALS

NOTES

1 NO. 12 WIRE INSTALLED AT LEAST 45 DEGREES FROM THE VERTICAL PLANE AND ANCHORED ON BOTH SIDES OF PIPE (209 LB MAXIMUM LOAD).
2 SURGE RESTRAINER, TOLCO FIG. 25 (TYP).

**1 BRANCH LINE SEISMIC RESTRAINT**  
 NO SCALE