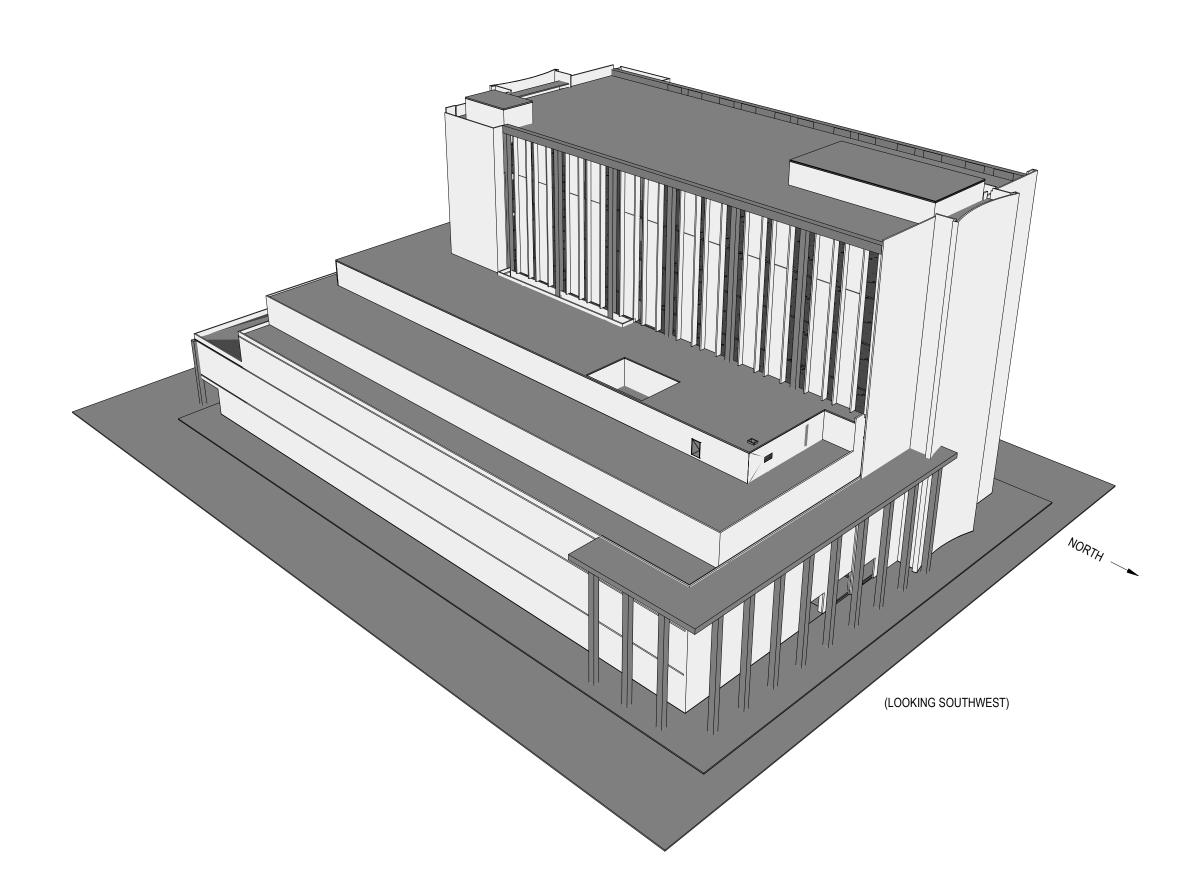
SAN MATEO COUNTY HALL OF JUSTICE ELEVATOR #3 AND #7 MODERNIZATION



PROJECT TEAM

OWNER: SAN MATEO COUNTY

CONTACT: TROY NEWMAN DEPARTMENT OF PUBLIC WORKS 555 COUNTY CENTER, 5TH FLOOR 650.599.7390 TNEWMAN@SMCGOV.ORG REDWOOD CITY, CALIFORNIA 94063

PRIME PROFESSIONAL CONSULTANT: VTX, A DIVISION OF GANNETT FLEMING, INC.

3838 NORTH CENTRAL AVENUE SUITE 1900 PHOENIX, ARIZONA 85012

CONTACT: KENT REED 480.305.3609 WKREED@GFNET.COM

ARCHITECT: ARCHITEKTON

TEMPE, ARIZONA 85281

464 SOUTH FARMER AVENUE CONTACT: DOUGLAS BROWN SUITE 101 480.894.4637

STRUCTURAL ENGINEER: GANNETT FLEMING, INC.

3838 NORTH CENTRAL AVENUE SUITE 1900 PHOENIX, ARIZONA 85012

CONTACT: SHANE SWEETEN 602.553.8817 SSWEETEN@GFNET.COM

DOUGBROWN@ARCHITEKTON.COM

MPE ENGINEER: LSW ENGINEERS

2333 W. NORTHERN AVENUE CONTACT: ADAM BAGBY SUITE 9 602.249.1320 PHOENIX, ARIZONA 85021 ABAGBY@LSWPHX.COM

DEFERRED SUBMITTALS

1. ELEVATOR EQUIPMENT SHOP DRAWINGS

SHEET INDEX

Sheet Number	Sheet Name	Sheet Number	Sheet Name
ENERAL		ELECTRICAL	-
001	HATCHES, SYMBOLS, AND ABBREVIATIONS	E001	ELECTRICAL SYMBOLS
		E101	ELECTRICAL DEMOLITION PLANS - ELEVATOR $\#3$
RCHITECT	URAL	E102	ELECTRICAL DEMOLITION PLANS - ELEVATOR #7
100	BASEMENT PLAN	E201	ELECTRICAL OVERALL PLAN - 1ST FLOOR
101	LEVEL 1 FLOOR PLAN	E202	ELECTRICAL PLANS BASEMENT AND FIRST FLOO
191	ROOF PLAN	E203	ELECTRICAL PLANS - 3RD AND 5TH FLOOR
301	BUILDING SECTION	E204	ELECTRICAL PLAN - PENTHOUSE - ELEVATOR #3
310	ELEVATOR #3 SHAFT SECTIONS	E801	ELECTRICAL ONE-LINE DIAGRAMS
311	ELEVATOR #7 SHAFT SECTIONS	E802	ELECTRICAL ONE-LINE DIAGRAM
401	ENLARGED PLANS AND DETAILS, ELEV #3	E901	DETAILS, CALCULATIONS AND PANEL SCHEDULE
402	ENLARGED PLANS - ELEV #7		
403	ENLARGED PLANS	EQUIPMENT	
		VT001	ABBREVIATIONS AND GENERAL NOTES
TRUCTUR	AL	VT002	ELEVATOR 3 TECHNICAL DATA
001	GENERAL STRUCTURAL NOTES 1	VT003	ELEVATOR 7 TECHNICAL DATA
002	GENERAL STRUCTURAL NOTES 2	VT004	ELEVATOR 3 EXISTING PLANS
100	OVERALL ROOF PLAN	VT005	ELEVATOR 7 EXISTING PLANS
200	FULL HEIGHT SECTIONS	VT006	ELEVATOR 3 EXISTING SECTION THRU HOISTWAY
300	ELEVATOR 3 PLAN	VT007	ELEVATOR 7 EXISTING SECTION THRU HOISTWAY
		VT008	ELEVATOR 3 NEW PLANS
ECHANICA	AL	VT009	ELEVATOR 7 NEW PLANS

ELEVATOR 3 NEW SECTION THRU HOISTWAY

ELEVATOR 7 NEW SECTION THRU HOISTWAY

SPECIAL INSPECTIONS

MECHANICAL GENERAL SHEET

MECHANICAL DETAILS

MECHANICAL SCHEDULES

OVERALL MECHANICAL PLAN - 5TH FLOOR

PARTIAL MECHANICAL PLAN - 5TH FLOOR

OVERALL MECHANICAL PLAN - 8TH FLOOR

OVERALL MECHANICAL PLAN - PENTHOUSE

PARTIAL MECHANICAL PLAN - 8TH FLOOR AND PENTHOUSE

EPOXY BOLTS

M291

PROJECT INFORMATION

LOCATION

400 COUNTY CENTER REDWOOD CITY, CA 94063

DESCRIPTION

PROJECT DESCRIPTION:

RENOVATION AND MODERNIZATION OF TWO TRACTION ELEVATORS, WITH RELATED ELECTRICAL AND MECHANICAL SYSTEM UPGRADES

NO CHANGES IN BUILDING USE, AREAS OR PARKING REQUIREMENTS

BUILDING CONSTRUCTION:

NON-COMBUSTIBLE STRUCTURE, FLOORS AND WALLS, TYPE IIA

NUMBER OF STORIES:

10, INCLUDING BASEMENT AND MECHANICAL PENTHOUSE

FIRE PROTECTION: BUILDING IS PARTIALLY SPRINKLERED. (NO CHANGE IN BUILDING AREA, NO

CHANGE IN EXTENT OF FIRE SPRINKLERS OR FIRE ALARM SYSTEM) Note: Design team has been told the newer portion of the building (the 11 story portion which is served by elevator # 3) is sprinklered. In the site review visit of 3/10 and 3/11/21 no sprinkler heads were observed in the hallways or elevator machine rooms. This project does not include any modification of the fire protection systems or any new spaces or added floor area. The sentence provided above is the most complete description we can provide under our scope of work. Our scope of work does not include a code review or evaluation of the

OCCUPANCY:

OFFICES AND COURTROOM (ASSEMBLY) SPACES

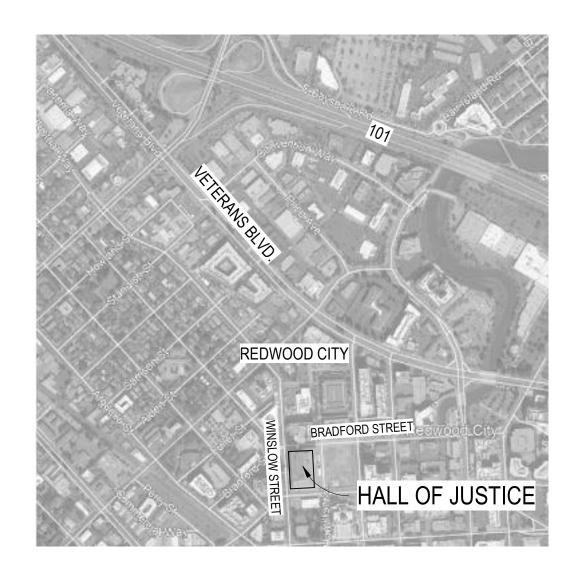
EXITING PROVIDED:

NO CHANGES IN OCCUPANCY TYPE OR OCCUPANT LOAD, NO CHANGE IN EXIT WIDTHS OR NUMBER

PLUMBING FIXTURES PROVIDED: NO CHANGES

VICINITY MAP (N)





REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

Jun 03 2022

SAN MATEO CO. BLDG. INSP. DIV.

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HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER REDWOOD CITY, CA 94063

County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER

TRANSPORTATION Elevator and Escalator Consulting EXCELLENCE a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957

ARCHITEKTON



No. Description

No.	Description	Dat
1	.PLAN CHECK	3/4/22

AS NOTED

PROJECT NO.

100% SET 10/14/21, 4/4/22 SHEET TITLE

COVER SHEET

SHEET NO.

G000

A B B R E V I A T I O N S L E G E N D

		DIM	DIMENSION			PREFAB	PREFABRICATED	UGND	UNDERGROU
		DIR	DIRECTION	ID	INSIDE DIAMETER	PREFIN	PREFINISHED	UH	UNIT HEATER
	ACOUSTICAL WALL TREATMENT	DISP	DISPENSER	IN	INCHES INCANDESCENT	PRELIM	PRELIMINARY	UL	UNDERWRITE
A/C	AIR CONDITION(ING) (ED)	DIST DIV	DISTANCE DIVIDE, DIVISION	INCAND INCL	INCLUDE	PRKG PROJ	PARKING PROJECT	UNFIN UNO	UNFINISH(ED) UNLESS NOTI
A/C UNIT	AIR CONDITIONING UNIT	DL	DEAD LOAD	INFO	INFORMATION	PROP	PROPERTY	UTIL	UTILITY
AB	ANCHOR BOLT	DMPR	DAMPER	INSUL	INSULATION	PSF	POUNDS PER SQUARE FOOT	UV	UNIT VENTILA
ABBVR	ABBREVIATION	DN	DOWN	INT	INTERIOR	PSI	POUNDS PER SQUARE INCH		
ACC	ACCESSIBLE	DO	DITTO	INTERM	INTERMEDIATE	PT	POST TENSIONED	V	VOLT
ACCU	AIR COOLED CONDENSING UNIT	DOC	DOCUMENT		MUITOR	PTD	PAPER TOWER DISPENSER	VAR	VARIES, VARI
ACOLIS INSUI	AMERICAN CONCRETE INSTITUTE ACOUSTICAL INSULATION	DOZ DR	DOZEN DOOR	JAN JAN CLO	JANITOR JANITOR CLOSET	PTN PVC	PARTITION POLYVINYL CHLORIDE (PLASTIC)	VB VCT	VINYL BASE VINYL COMPO
ACOUS INSUL	ACOUSTICAL INSULATION ACOUSTICAL PANEL	DS	DOWNSPOUT	JAN CLO JNT	JOINT JOINT	PWR	POWER	VENT	VENTILATION
ACST	ACOUSTIC	DSGN	DESIGN	JR	JUNIOR	TVVIX	1 OWLIX	VERT	VERTICAL
ACT	ACOUSTICAL CEILING TILE	DT	DRAIN TILE	JST	JOIST	QT	QUARRY TILE	VEST	VESTIBULE
ADA	AMERICANS WITH DISABILITIES ACT	DW	DISH WASHER			QTR	QUARTER	VIF	VERIFY IN FIE
ADDL	ADDITIONAL	DWG	DRAWING	KD	KNOCK DOWN	QTY	QUANTITY	VOC	VOLATILE OR
ADH	ADHESIVE			KIP	1000 POUNDS			VOL	VOLUME
ADJ	ADJUSTABLE, ADJACENT	E	EAST	KO	KNOCK OUT	R	RISER, RADIUS, HEAT RESISTANCE	VR	VAPOR RETA
AE	ARCHITECT/ ENGINEER	EA	EACH SUPPLIES CONTRACTOR	KPL	KICK PLATE	RA	RETURN AIR	VUH	VERTICAL UN
AFF AGGR	ABOVE FINISHED FLOOR AGGREGATE	EC EF	ELECTRICAL CONTRACTOR EACH FACE	1	LITER, ANGLE	RAD RB	RADIATOR RUBBER BASE, RESILIENT BASE	VWC	VERTICAL WA
AHJ	AUTHORITIY HAVING JURISDICTION	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	LAB	LABORATORY	RC	ROOFING CONTRACTOR	W	WATT, WEST
AHU	AIR HANDLING UNIT	EJ	EXPANSION JOINT	LAM	LAMINATE(D)	RCP	REFLECTED CEILING PLAN	W/	WITH
ALT	ALTERNATE	EL	ELEVATION	LAV	LAVATORY	RD	ROOF DRAIN	W/O	WITHOUT
ALUM	ALUMINUM	ELEC	ELECTRIC(AL)	LBL	LABEL	REC	RECESSED	W/W	WALL TO WAL
ANOD	ANNODIZED	ELEM	ELEMENTARY	LBS	POUND	REC RM	RECREATION ROOM	WB	WOOD BASE
APC	ACOUSTICAL PANEL CEILING	ELEV	ELEVATOR	LD	LOAD	REF	REFRIGERATOR	WC	WALL COVER
ARCH	ARCHITECT(URAL)	ENAM	ENAMEL	LF	LINEAR FEET	REG	REGISTER, REGULATION	WD	WOOD
BD	BOARD	ENCL ENGR	ENCLOSURE ENGINEER	LH LIB	LATENT HEAT, LEFT HAND LIBRARY	REINF REQD	REINFORCE REQUIRED	WDW WF	WINDOW WIDE FLANGE
BLDG	BUILDING	ENVIR	ENVIRONMENT	LIN	LINEAR	RESIL	RESILIENT	WH	WATER HEAT
BLKG	BLOCKING	EP	ELECTRIC PANEL	LKR	LOCKER	REV	REVISION	WI	WROUGHT IR
BM	BENCHMARK, BEAM	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	LKR RM	LOCKER ROOM	RFG	ROOFING	WM	WIRE MESH
BOT	BOTTOM	EPS	EXPANDED POLYSTYRENE BOARD	LL	LIVE LOAD	RFI	REQUEST FOR INFORMATION	WP	WATER PROC
BRG	BEARING	EQ	EQUAL	LLH	LONG LEG HORIZONTAL	RFP	REQUEST FOR PROPOSAL	WR	WATER REPE
BSMT	BASEMENT	EQUIP	EQUIPMENT	LLV	LONG LEG VERTICAL	RH	RIGHT HAND, ROOF HATCH	WSCT	WAINSCOT
BTWN	BETWEEN	EQUIV	EQUIVALENT	LTG	LIGHTING	RM	ROOM	WT	WEIGHT
BUR	BUILT-UP ROOFING	ETR	EXISTING TO REMAIN	MACH	MATCHIANE	RO	ROUGH OPENING	WWF	WELDED WIR
CAB	CABINET	EWC	EACH WAY ELECTRIC WATER COOLER	MACH MACH RM	MATCHLINE MACHINE ROOM	ROW RTF	RIGHT OF WAY RUBBER TILE FLOOR	WWM	WELDED WIR
CB	CARRIAGE BOLT, CATCH BASIN	EWH	ELECTRIC WATER HEATER	MAHOG	MAHOGANY	RTU	ROOF TOP UNIT	Χ	BY
CCTV	CLOSED-CIRCUIT TELEVISION	EXC	EXCAVATE	MAINT	MAINTENANCE	RV	ROOF VENT	χ	51
CD	CONSTRUCTION DOCUMENTS, CONTRACT	EXH	EXHAUST	MATL	MATERIAL	RW	RESCUE WINDOW	Υ	YD
	DOCUMENTS	EXIST	EXISTING	MAX	MAXIMUM	RWB	RUBBER WALL BASE		
CEM	CEMENT	EXP	EXPAND, EXPANSION	MB or MKR BD) MARKERBOARD				
CERT	CERTIFY, CERTIFICATE, CERTIFICATION	EXT	EXTERIOR	MC	MECHANICAL CONTRACTOR	S	SOUTH		
CF/CI	CONRACTOR FURNISHED/ CONTRACTOR INSTALLED	F./F	FAOF TO FAOF	MDF	MEDIUM DENSITY FIBERBAORD	SAB	SOUND ATTENUATION BATTS		
CF/OI	CONTRACTOR FURNISHED/ OWNER	F/F FA	FACE-TO-FACE FIRE ALARM	MDO	MEDIUM DENSITY OVERLAY	SAN SC	SANITARY		
	INSTALLED	FAAP	FIRE ALARM FIRA ALARM ANNUNCIATOR PANEL	ME MECH	MATCH EXISTING MECHANICAL	SCHED	SOLID CORE, SHADING COEFFICIENT SCHEDULE		
CG	CORNER GUARD	FACP	FIRE ALARM CONTROL PANEL	MECH RM	MECHANICAL ROOM	SD	SOAP DISPENSER		
CHBD	CHALK BOARD	FCU	FAN COIL UNIT	MFR	MANUFACTURER	SECT	SECTION		
CHEM	CHEMICAL	FD	FLOOR DRAIN	MIN	MINIMUM	SF	SQUARE FOOT, SAFETY FACTOR		
CI CIP	CAST IRON CAST-IN-PLACE	FE	FIRE EXTINGUISHER	MISC	MISCELLANEOUS	SGT	STRUCTURAL GLAZED TILE		
CJ	CONTROL JOINT, CONSTRUCTION JOINT	FEC	FIRE EXTINGUISHER CABINET	MM	MILIMETER	SHR	SHOWER		
CL	CENTER LINE	FIN	FINISH	MO	MASONRY OPENING	SHT	SHEET		
CLG	CEILING	FIXT FLOUR	FIXTURE FLOURESCENT	MOD BIT	MODIFIED BITUMEN	SIM	SIMILAR SANITARY NAPKIN DISPENSER		
CLO	CLOSET	FLR	FLOOR	MTD MTL	MOUNTED METAL, MATERIAL	SND SOG	SLAB ON GRADE		
CLR	CLEAR	FNDN	FOUNDATION	MULL	MULLION	SPC	SUSPENDED SPLASTER CEILING		
CLRM	CLASSROOM	FO	FINISHED OPENING			SPEC	SPECIFICATION(S)		
CMU CNR	CONCRETE MASONRY UNIT CORNER	FRJS	FIRE RESISTIVE JOINT SYSTEM	N	NORTH	SPKR	SPEAKER		
CNTR	COUNTER	FRP	FIBERGLASS REINFORCED PLASTIC	NA	NOT APPLICABLE	SQ	SQUARE		
COL	COLUMN	FRTW	FIRE RETARDANT TREATED WOOD	NIC	NOT IN CONTRACT	SST	STAINLESS STEEL		
CONC	CONCRETE	FT	FOOTING	NO or #	NUMBER	STC	SOUND TRANSMISSION CLASS		
CONF	CONFERENCE	FTG FURN	FOOTING FURNITURE	NOM NORM	NOMINAL NORMAL	STD STOR	STANDARD STORAGE		
CONN	CONNECT(ION)	FW	FIRE WALL	NTS	NOT TO SCALE	STRM	STOREROOM		
CONSTR	CONSTRUCTION	FWC	FABRIC WALL COVERING			STRUCT	STRUCTURAL		
CONT CONTR	CONTINUOUS CONTRCT(OR)			O/A	OVERALL	SUB	UBSTITUTE		
COORD	COORDINATE, COORDINATION	GA	GAGE	0/0	OUT TO OUT	SUB FL	SUBFLOOR		
CORR	CORRIDOR	GAL	GALLON	00	ON CENTER	SUSP	SUSPENDED		
CPT	CARPET	GALV GALV STL	GALVANIZED GALVANIZED STEEL	OD OF/ OI	OUTSIDE DIAMETER OWNER FURNISHED/ OWNER INSTALLED	SUSP CLG SV	SUSPENDED CEILING SAFETY VALVE, SHEET VINYL		
CSK	COUNTERSINK	GALV STL GB	GRAB BAR	OF/OI OF/CI	OWNER FURNISHED/ OWNER INSTALLED OWNER FURNISEHD/ CONTRACTOR	SWBD	SWITCHBOARD		
CSWK	CASEWORK	GC	GENERAL CONTRACTOR	2.,01	INSTALLED	SY	SQUARE YARD		
CT	CERAMIC TILE	GEN	GENERAL, GENERATOR	OFF	OFFICE	SYM	SYMBOL		
CTR CTRL	CENTER CONTROL	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	OH	OVERHANG	SYS	SYSTEM		
CU	CUBIC	GFRC	GLASS FIBER RINFORCED CONCRETE	OH DR	OVERHEAD DOOR				
CUH	CABINET UNIT HEATER	GFRG	GLASS FIBER REINFORCED GYPSUM	OPH	OPPOSITE HAND	T	TREAD		
CUST	CUSTODIAL	GL CL DLK	GLASS, GROUND LEVEL GLASS BLOCK	OPNG OPP	OPENING OPPOSITE	T & B T & G	TOP AND BOTTOM		
CW	COLD WATER, CASEMENT WINDOW	GL BLK GLU LAM	GLUED LAMINATED BEAM	OPT	OPTIONAL, OPTIMUM	TB	TONGUE AND GROOVE THROUGH BOLT, TOWEL BAR		
		GLZ	GLAZING		- ,	TECH	TECHNICAL, TECHNOLOGY		
CONT	CONTINUOUS	GWT	GLAZED WALL TILE	PA	PUBLIC ADDRESS	TEL	TELEPHONE		
COORD	COORDINATE, COORDINATION	GYP	GYPSUM	PAR	PARALLEL	TEMP	TEMPORARY, TEMPERATURE		
CORR CPT	CORRIDOR CARPET	GYP BD	GYPSUM BOARD	PART	PARTIAL	TERR	TERRAZZO		
CSK	COUNTERSINK	GYP PLAS	GYPSUM PLASTER	PAT	PATTERN DI LIMPING CONTRACTOR	THERM	THERMAL		
CSWK	CASEWORK	LID	HUGE DIDD	PC PERF	PLUMBING CONTRACTOR PERFORATED	THK	THICKNESS		
СТ	CERAMIC TILE	HB HC	HOSE BIBB HANDICAP, HOLLOW CORE	PERIM	PERIMETER	THRU TK BD	THROUGH TACK BOARD		
CTR	CENTER	HCP	HANDICAPPED	PL	PLATE, PROPERTY LINE	TMPD	TEMPERED		
CTRL	CONTROL	HD	HEAVY DUTY	PL GL	PLATE GLASS	TMPD GL	TEMPERED GLASS		
CU	CARINET UNIT LIFATER	HDW	HARDWARE	PLAM	PLASTIC LAMINATE	TOC	TOP OF CONCRETE		
CUH	CABINET UNIT HEATER CUSTODIAL	HDWD	HARDWOOD	PLAS	PLASTER, PLASTIC	TOF	TOP OF FOOTING, TOP OF FLOOR, TOP OF		
CUST CW	COLD WATER, CASEMENT WINDOW	HM	HOLLOW METAL	PLBG	PLUMBING		FRAME		
D	DEEP, DEPTH	HO HODIZ	HOLD OPEN	PLYWD	PLYWOOD PANEL	TOM	TOP OF MASONRY		
DBL	DOUBLE	HORIZ	HORIZON	PNL POL	PANEL POLISHED	TOPO TOS	TOPOGRAPHY TOP OF STEEL		
DEG	DEGREE	HR HSS	HOUR HOLLOW STRUCTURAL SECTION	POLY	POLISHED POLYETHYLENE (PLASTIC)	TPD	TOILET PAPER DISPENSER		
DEMO	DEMOLITION	HSS HT	HOLLOW STRUCTURAL SECTION HEIGHT	PORC	PORCELAIN	TV	TELEVISION		
DEPT	DEPARTMENT	HVAC	HEATING, VENTILATING AND AIR	PORT	PORTABLE	TYP	TYPICAL		
DET	DETAIL DENIZING FOUNTAIN		CONDITIONING	POS	POSITIVE				
DF DIA or Ø	DRINKING FOUNTAIN DIAMETER	HW	HOT WATER	PR	PAIR	U	HEAT TRANSFER COEFFICIENT		
DIA or Ø	DIAMETER	HYD	HYDRANT	PRCST	PRECAST	UC	UNDERCUT		

GRAPHIC SYMBOLS LEGEND

UNDERGROUND **UNIT HEATER**

UNFINISH(ED)

UNIT VENTILATOR

VARIES, VARIATION VINYL BASE

VENTILATION

VESTIBULE VERIFY IN FIELD

WATT, WEST WITH WITHOUT

WALL TO WALL

WROUGHT IRON WIRE MESH

WELDED WIRE FABRIC

WELDED WIRE MESH

WOOD BASE

WOOD WINDOW WIDE FLANGE

VAPOR RETARDER VERTICAL UNIT HEATER VERTICAL WALL COVERING

VINYL COMPOSITE TILE

VOLATILE ORGANIC COMPOUND

WALL COVERING, WATER CLOSET

WATER HEATER, WALL HUNG

WATER PROOFING, WEATHERPROOF WATER REPELENT, WEATHER RESISTANT

UNDERWRITERS LABORATORIES

UNLESS NOTED OTHERWISE

AREA TAG	AREA NAME 1,500 SF	LEVEL HEAD	NAME ELEVATION
BUILDING SECTION	SIM A101	LIGHT FIXTURE TAG	TYPE
CASEWORK TAG	CDS202 36x34x24 CDS_MODIFICATION DESCRIPTION	MATCHLINE TAG	MATCH LINE 01 / AE-101-UUU TYPE
CEILING TAG	TYPE	MATERIAL TAG	?
CENTERLINE	ę	NORTH ARROW - TRUE NORTH AND PROJECT	NORTH N
CURTAINWALL / STOREFRONT TAG	1T	PLUMBING FITURE TAG	(TYPE)
DETAIL CALLOUT HEAD AND BUBBLE		PROPERTY LINE RADIUS TAG	R = RADIUS L = DISTANCE
	A1 A501 SIM	PROPERTY LINE TAG	N/S 90.00° E/W DISTANCE
DETAIL SECTION	SIM A101	PROPERTY TAG	NAME 3.52 acres
DOOR TAG	101A	RAILING / GUARDRAIL TAG	<type></type>
EGRESS AREA TAG	AREA NAME A-3 15 1,000 SF 66 100 2	REVISION TAG	1 MARK
EGRESS DOOR TAG	117 32.4" 23.4"	ROOF TAG	(TYPE)
EGRESS STAIR TAG	48" 36.0"	ROOM TAG - WITH AREA AND WITH NUMBER	ROOM NAME ROOM NAME 1,000 SF 101
EXTERIOR ELEVATION	A101	SPOT ELEVATION	1/2"
FLOOR TAG	(TYPE)	STAIR TAG	9 R @ 7"
FURNITURE TAG	(TYPE)	WALL SECTION	SIM A101
GRAPHIC SCALE	0' 4' 8' 16'	WALL TAG	⟨S3AB⟩
GRIDLINE AND GRID HEAD	0 — - — - —	WELD SYMBOL	\
INTERIOR ELEVATION_GROUPED	A231 PSIM ABSIM SIM ABSIM ABSI	WINDOW TAG	M
INTERIOR ELEVATION_INDIVIDUAL	A1SIM A231		
KEYNOTE	08.001		

REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

Jun 03 2022

SAN MATEO CO. BLDG. INSP. DIV.

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HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER REDWOOD CITY, CA 94063

County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER **REDWOOD CITY, CA 94063**

➤ VERTICAL TRANSPORTATION Elevator and Escalator Consulting EXCELLENCE a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957

ARCHITEKTON



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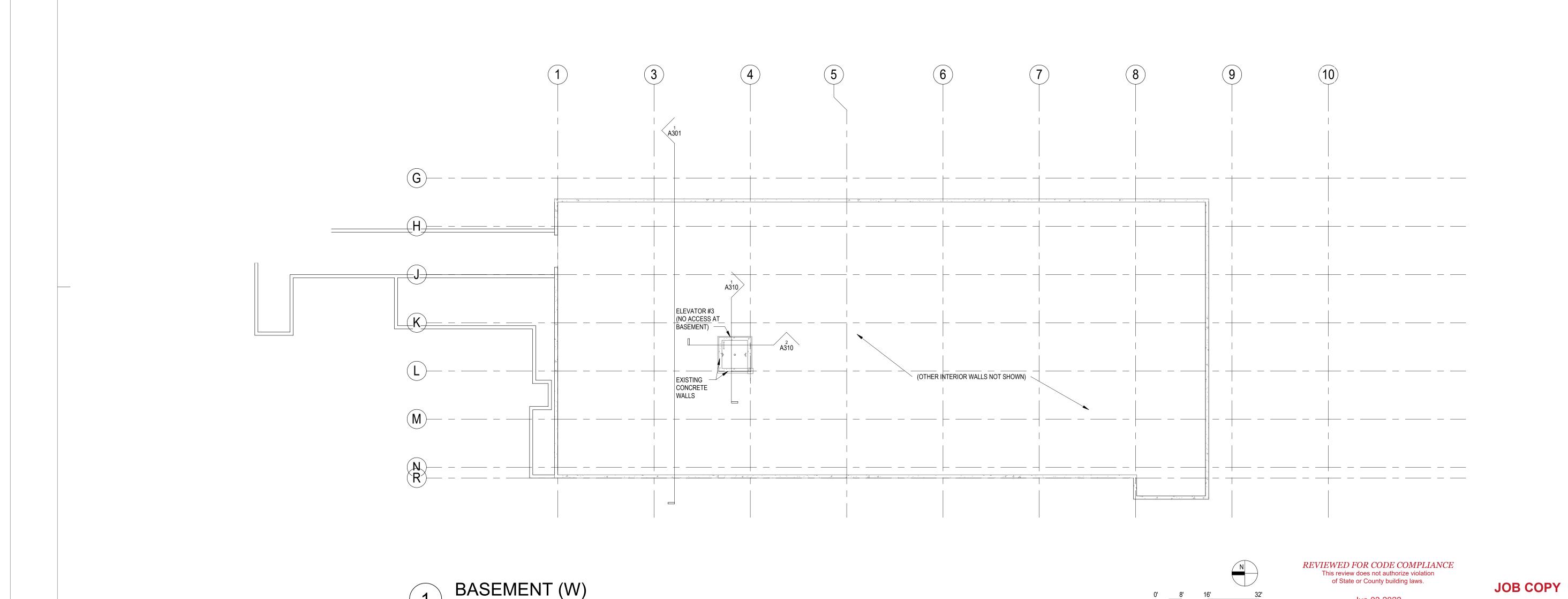
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PROJECT NO.	
ISSUE DATE	

100% SET 10/14/21, 4/4/22 SHEET TITLE

HATCHES, SYMBOLS, AND **ABBREVIATIONS**

SHEET NO.

G001





> CLIENT **County of San Mateo**

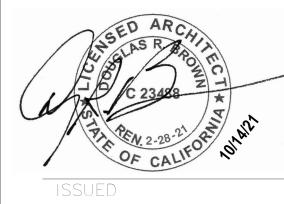
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BASEMENT PLAN

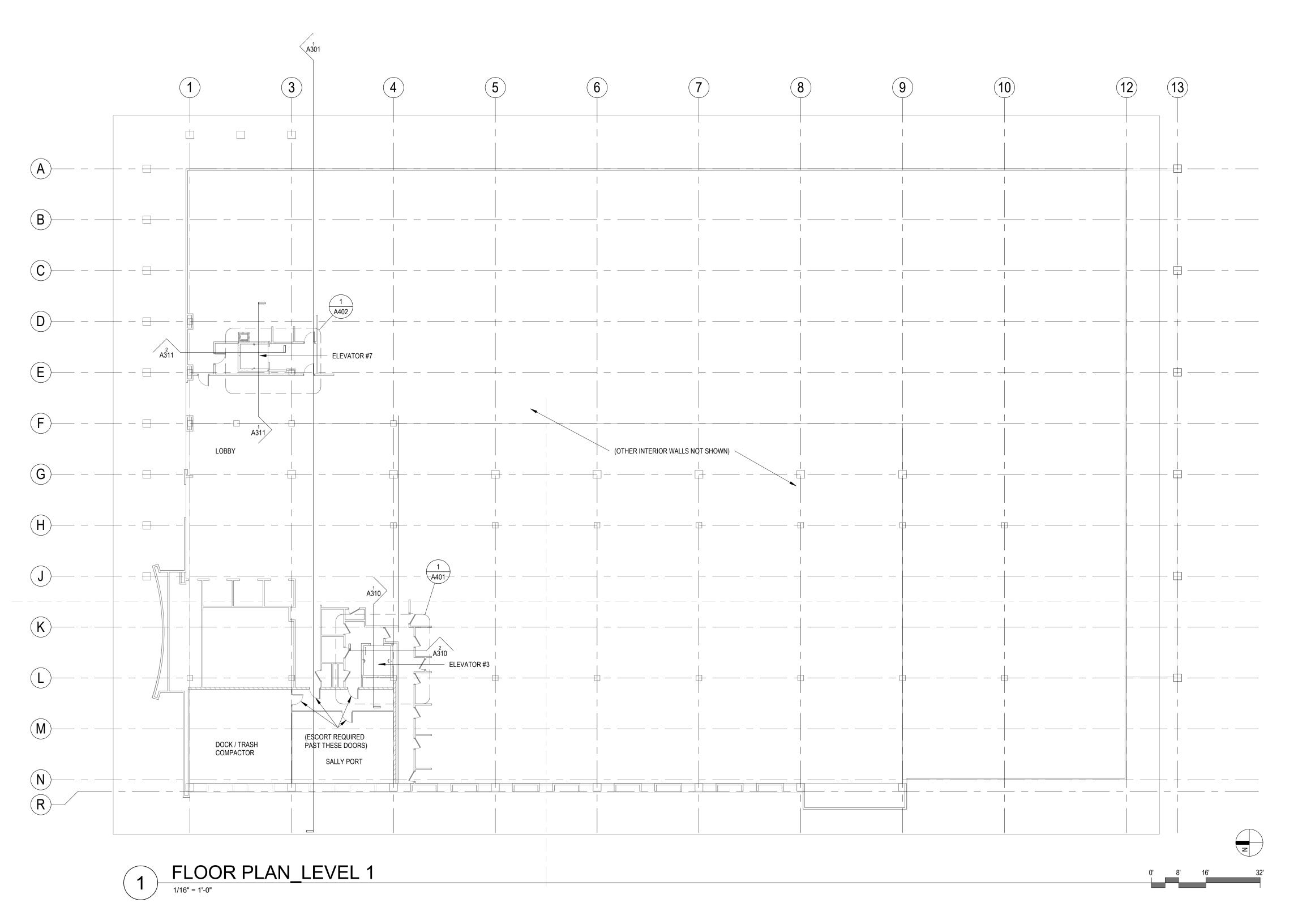
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Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

➤ VERTICAL

TRANSPORTATION Elevator and Escalator Consulting a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957

ARCHITEKTON



Date
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REVISIONS

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LEVEL 1 FLOOR PLAN

SHEET NO.

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A101

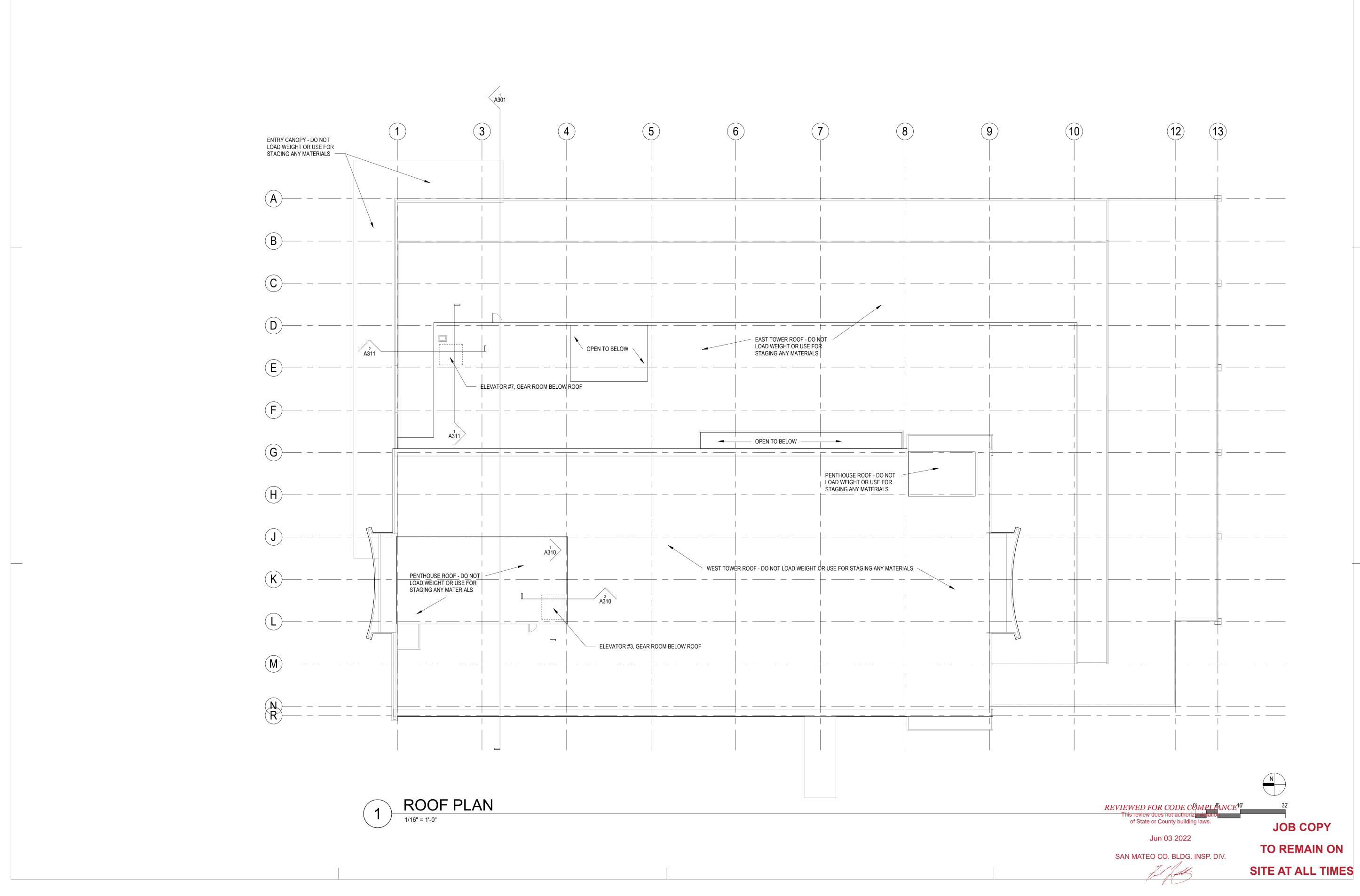
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SAN MATEO CO. BLDG. INSP. DIV.

TO REMAIN ON SITE AT ALL TIMES





CLIENT County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

VTX

➤ VERTICAL

TRANSPORTATION Elevator and Escalator Consulting
EXCELLENCE a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957

ARCHITEKTON



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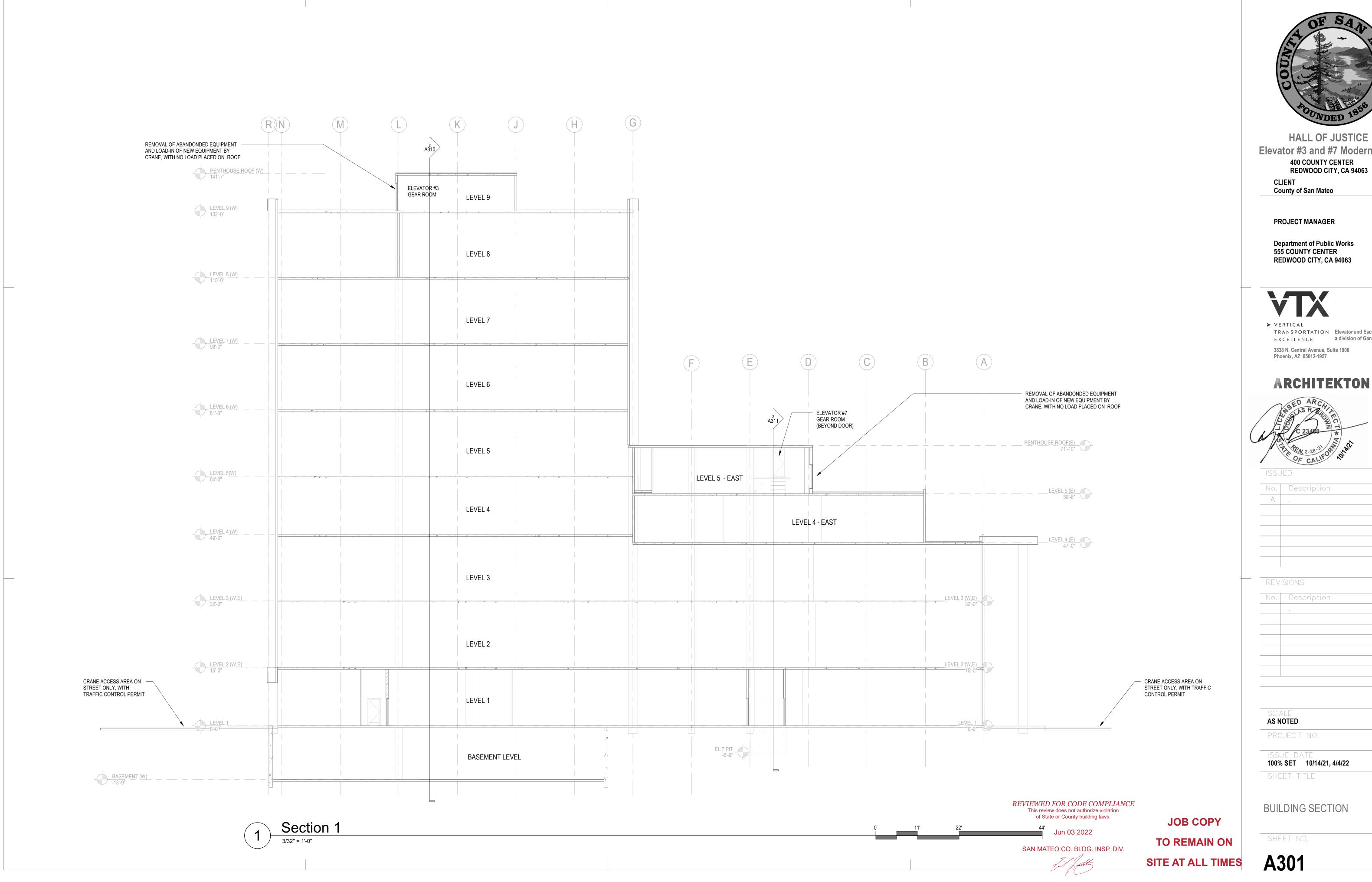
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SHEET TITLE

ROOF PLAN

SHEET NO.





HALL OF JUSTICE Elevator #3 and #7 Modernization

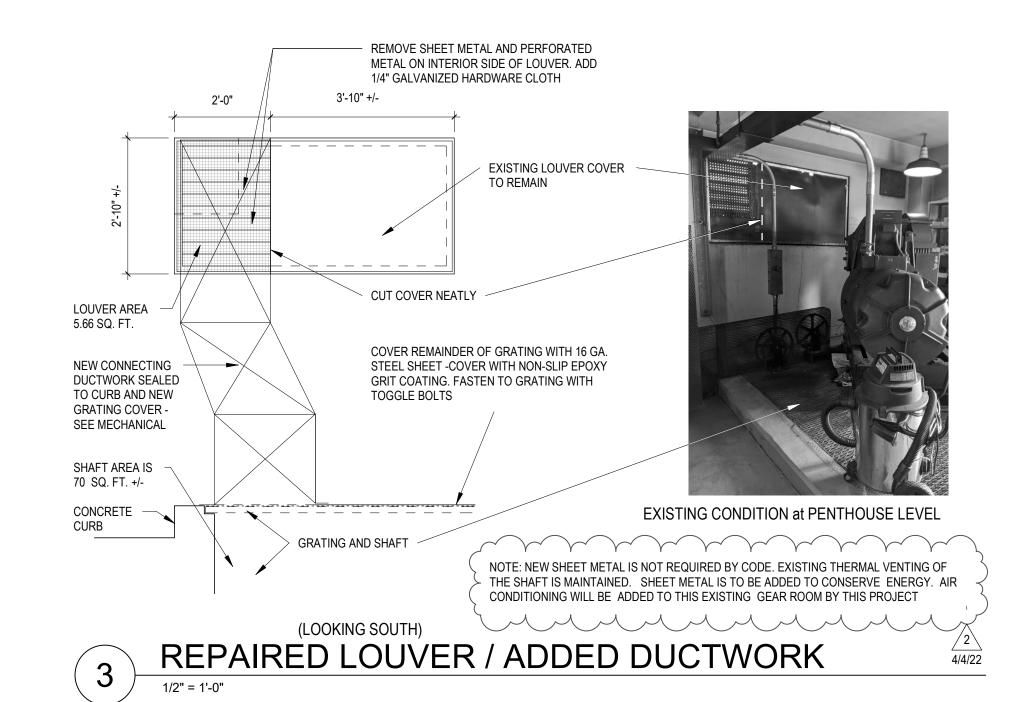
Department of Public Works 555 COUNTY CENTER

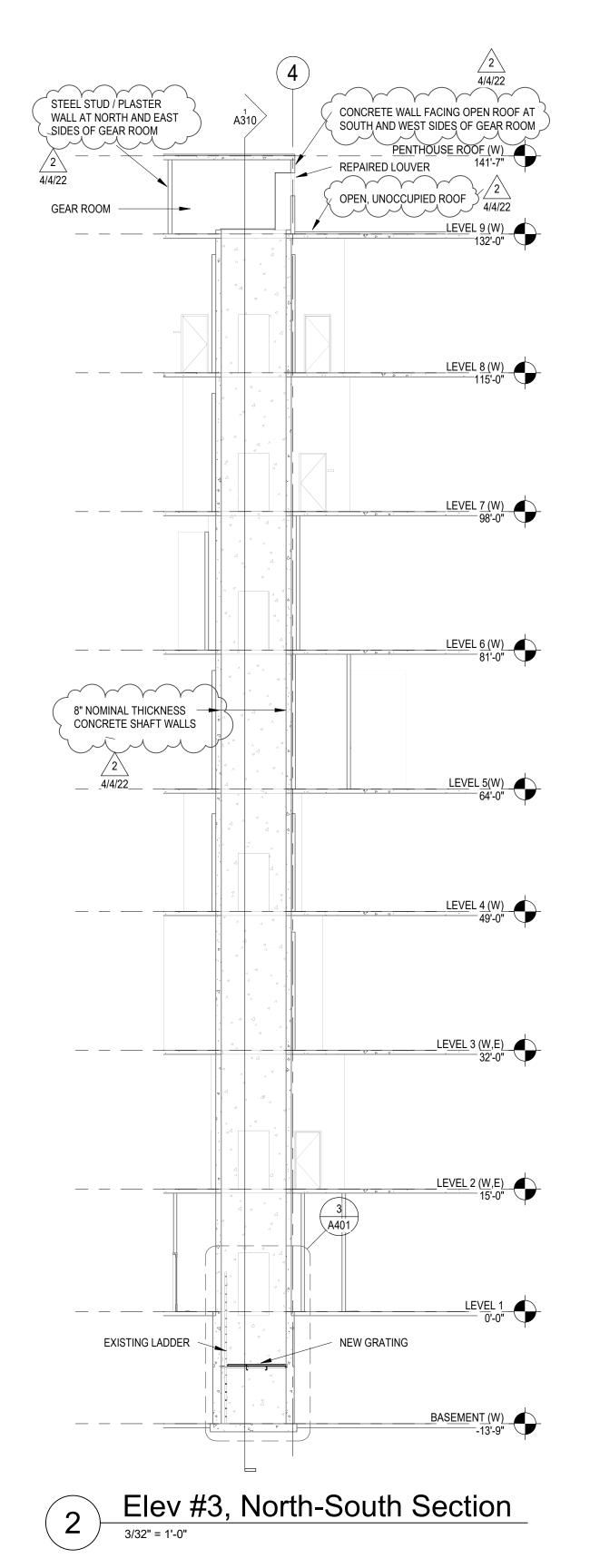
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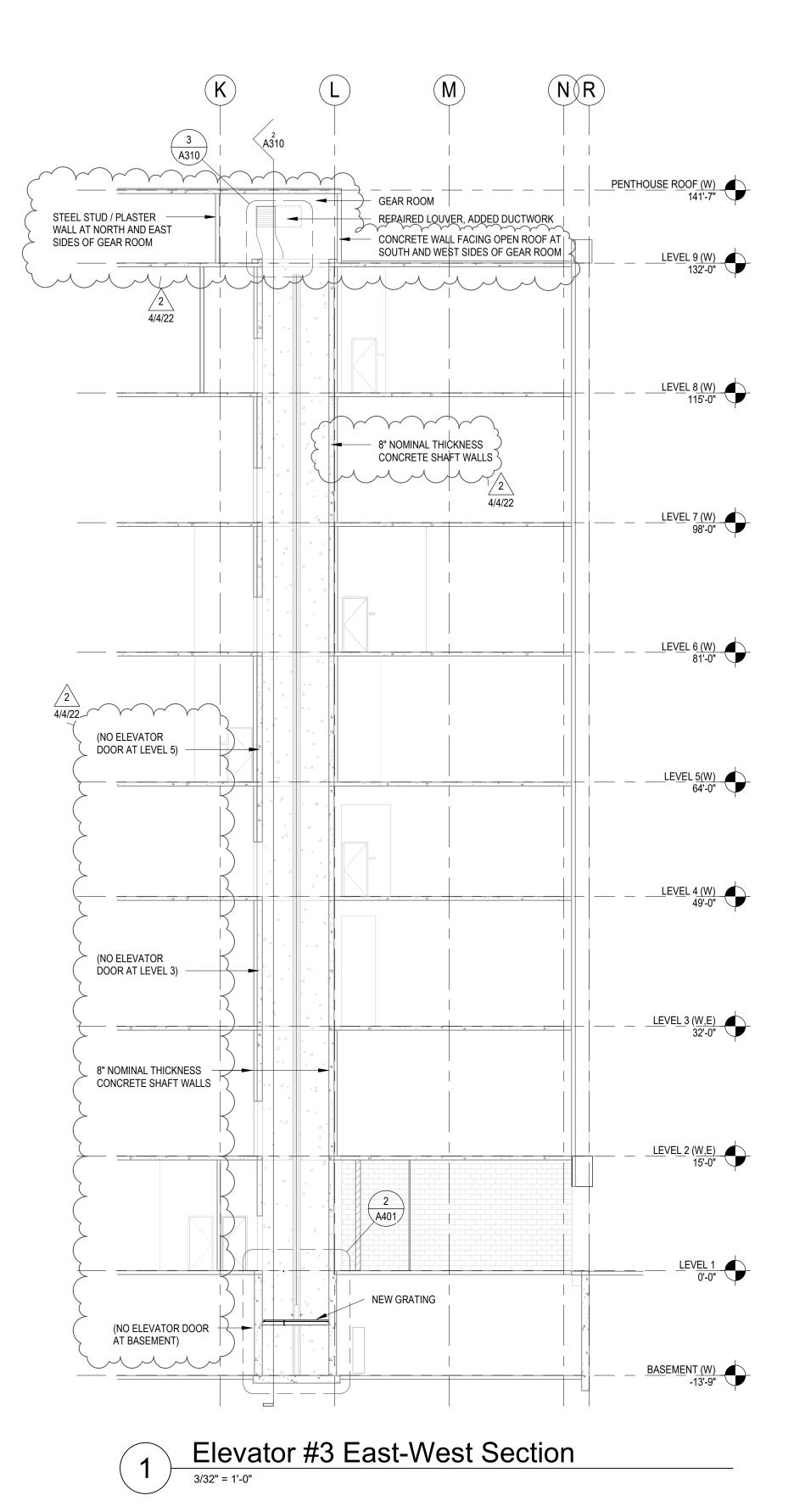


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Jun 03 2022

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SITE AT ALL TIMES



HALL OF JUSTICE
Elevator #3 and #7 Modernization
400 COUNTY CENTER
REDWOOD CITY, CA 94063

CLIENT County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

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► VERTICAL

TRANSPORTATION Elevator and Escalator Consulting

EXCELLENCE a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957

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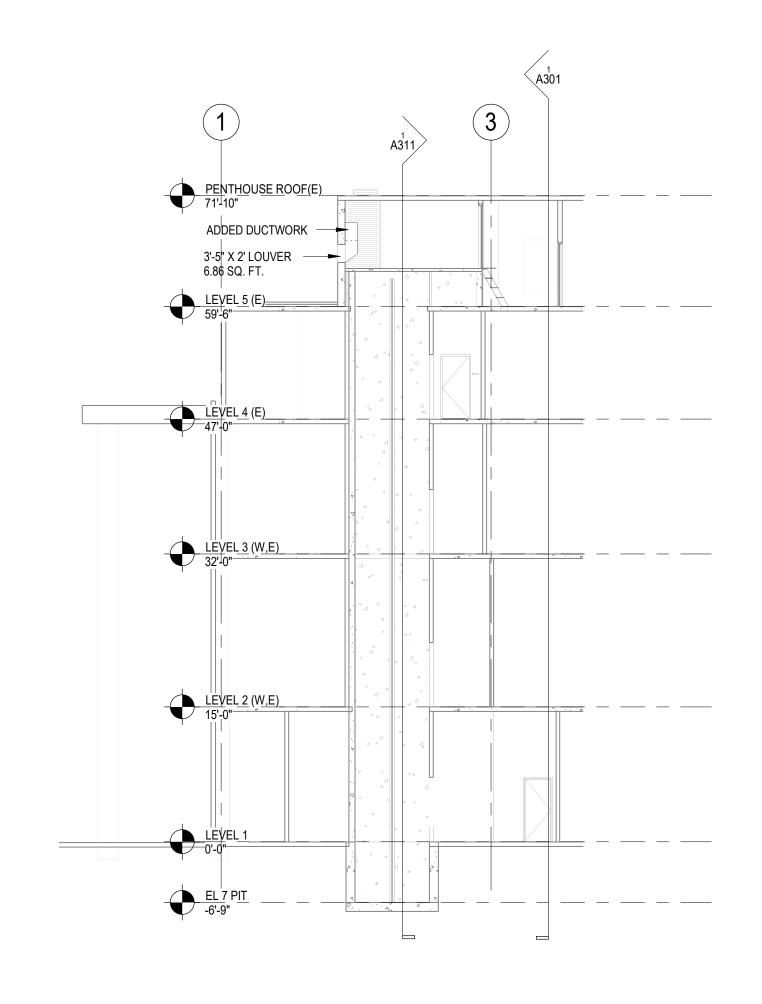
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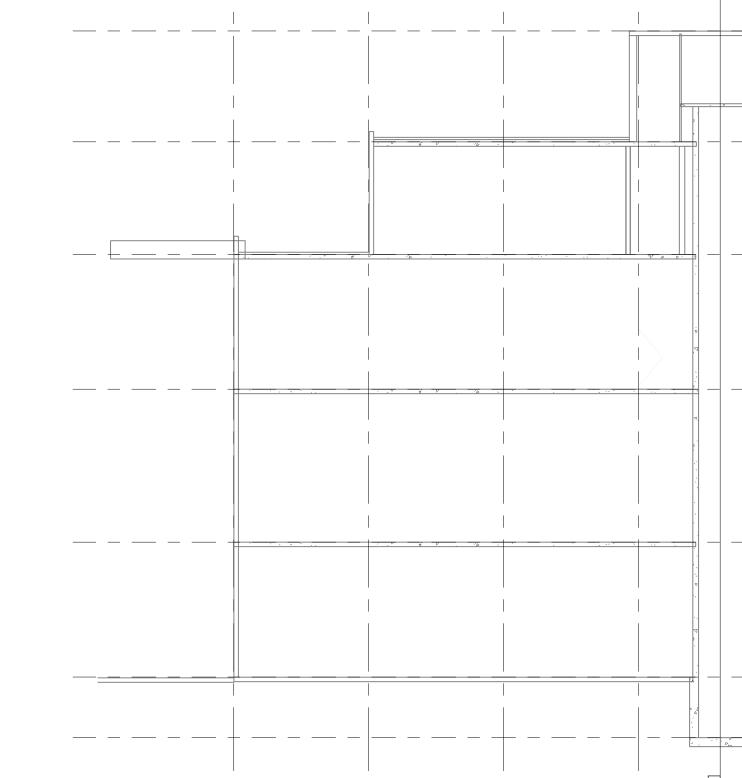
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SHEET TITLE

ELEVATOR #3 SHAFT SECTIONS

SHEET NO.





Elev #7, North-South Section

1 Elev #7, East -West Section

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of State or County building laws.

LEVEL 3 (W,E) 32'-0"

LEVEL 2 (W,E) 15'-0"

LEVEL 1 0'-0"

EL 7 PIT -6'-9"

ADDED DUCTWORK

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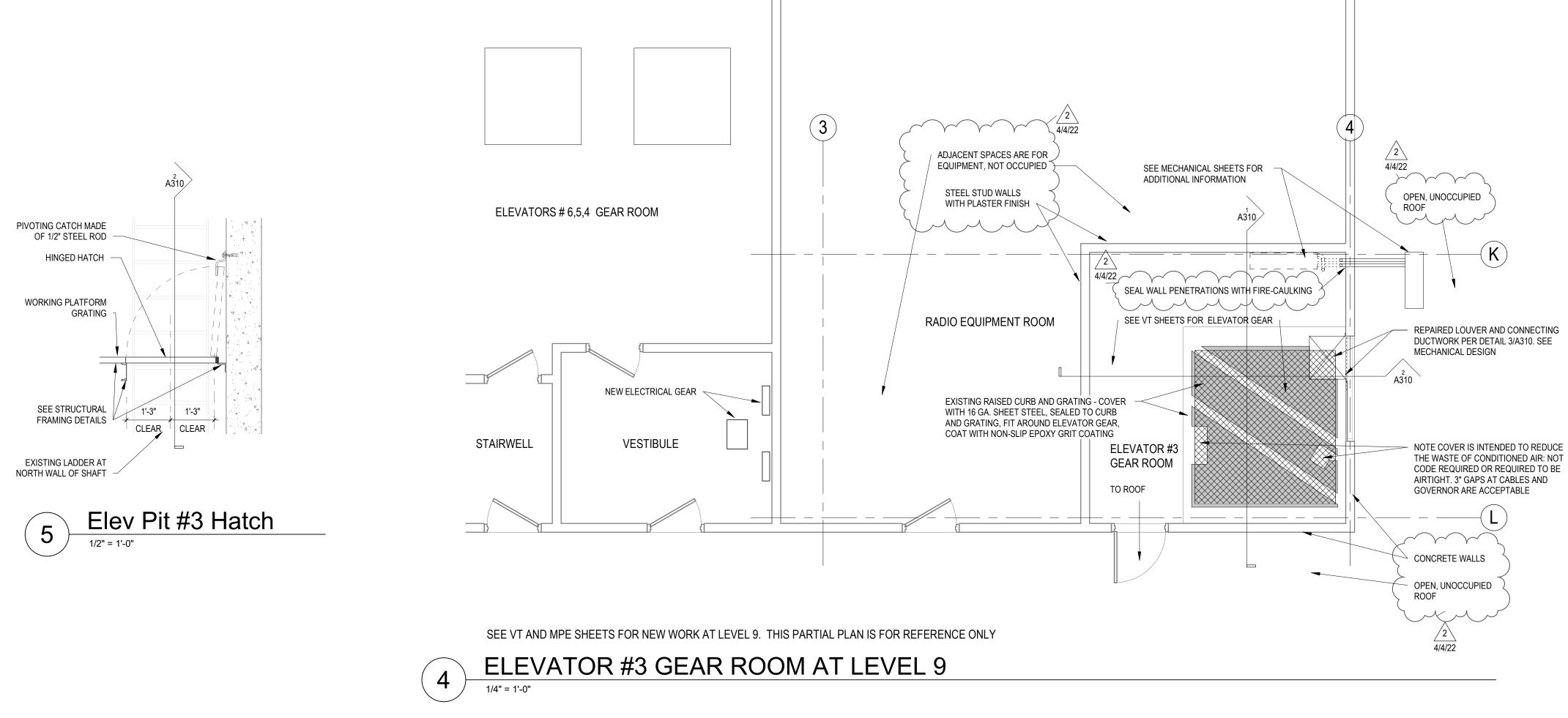
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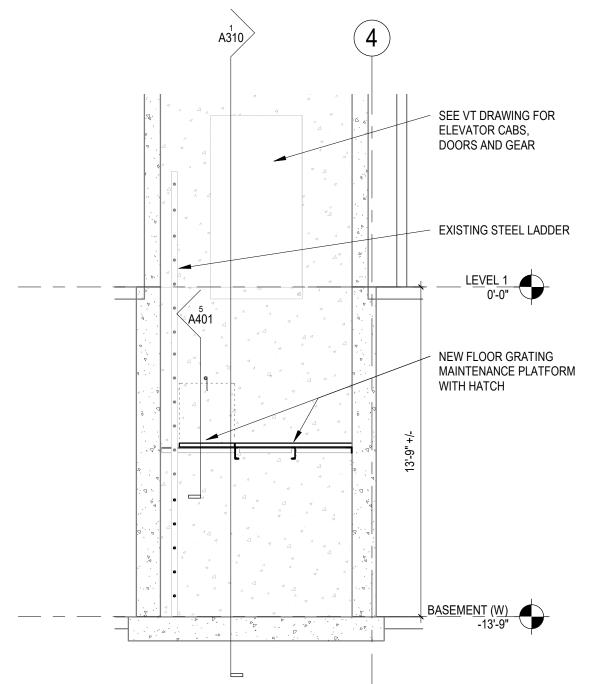
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ELEVATOR #7 SHAFT SECTIONS

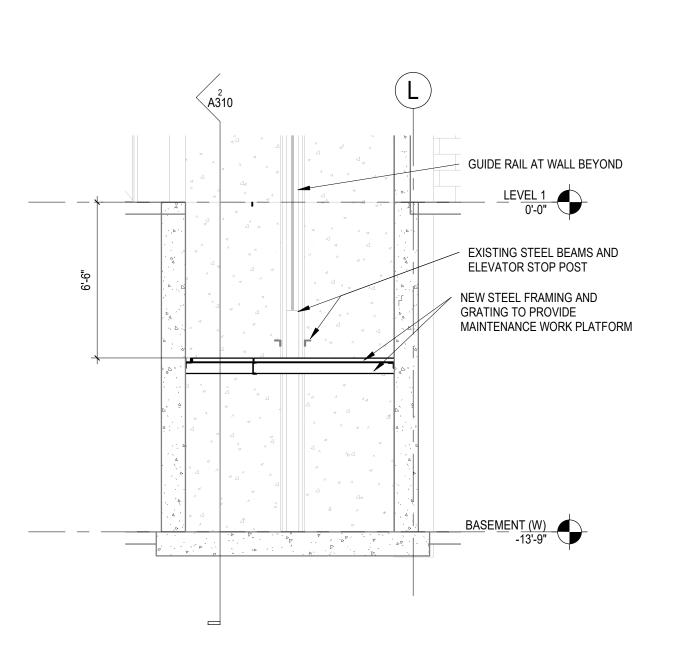
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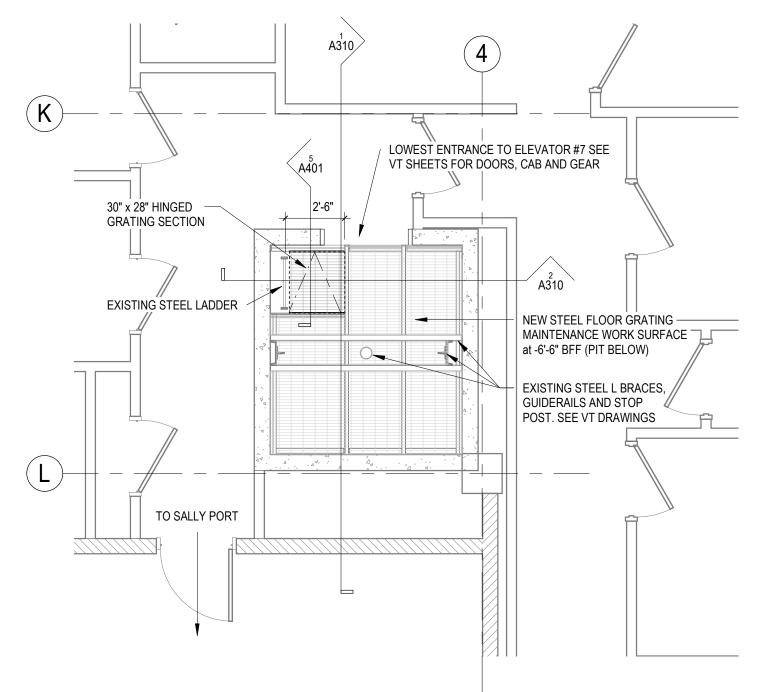


Elev #3, N-S Pit Section





SEE SHEET A403 FOR ENLARGED FLOOR PLANS OF OTHER LEVELS



SEE DETAILS ON THIS SHEET, VT AND MPE SHEETS FOR NEW WORK.
WALLS ARE EXISTING, THIS PARTIAL PLAN IS FOR NEW STEEL GRATE PLATFORM ONLY.

	ELEVATOR #3 PI	T AT LEVEL 1	
\int	1/4" = 1'-0"	REVIEWED FOR CODE COMPLIANCE This review does not authorize violation	
		of State or County building laws.	JOB COPY
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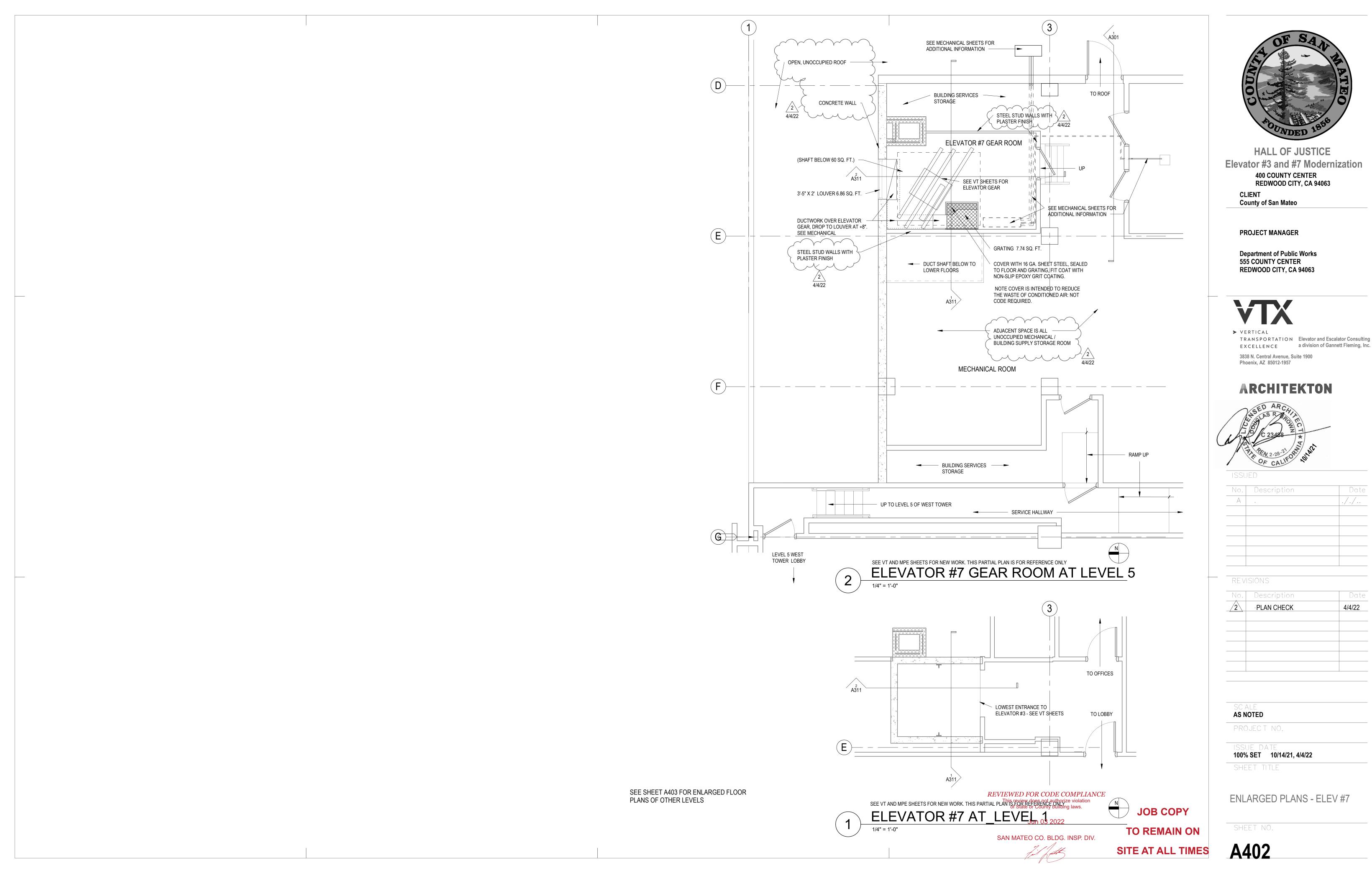
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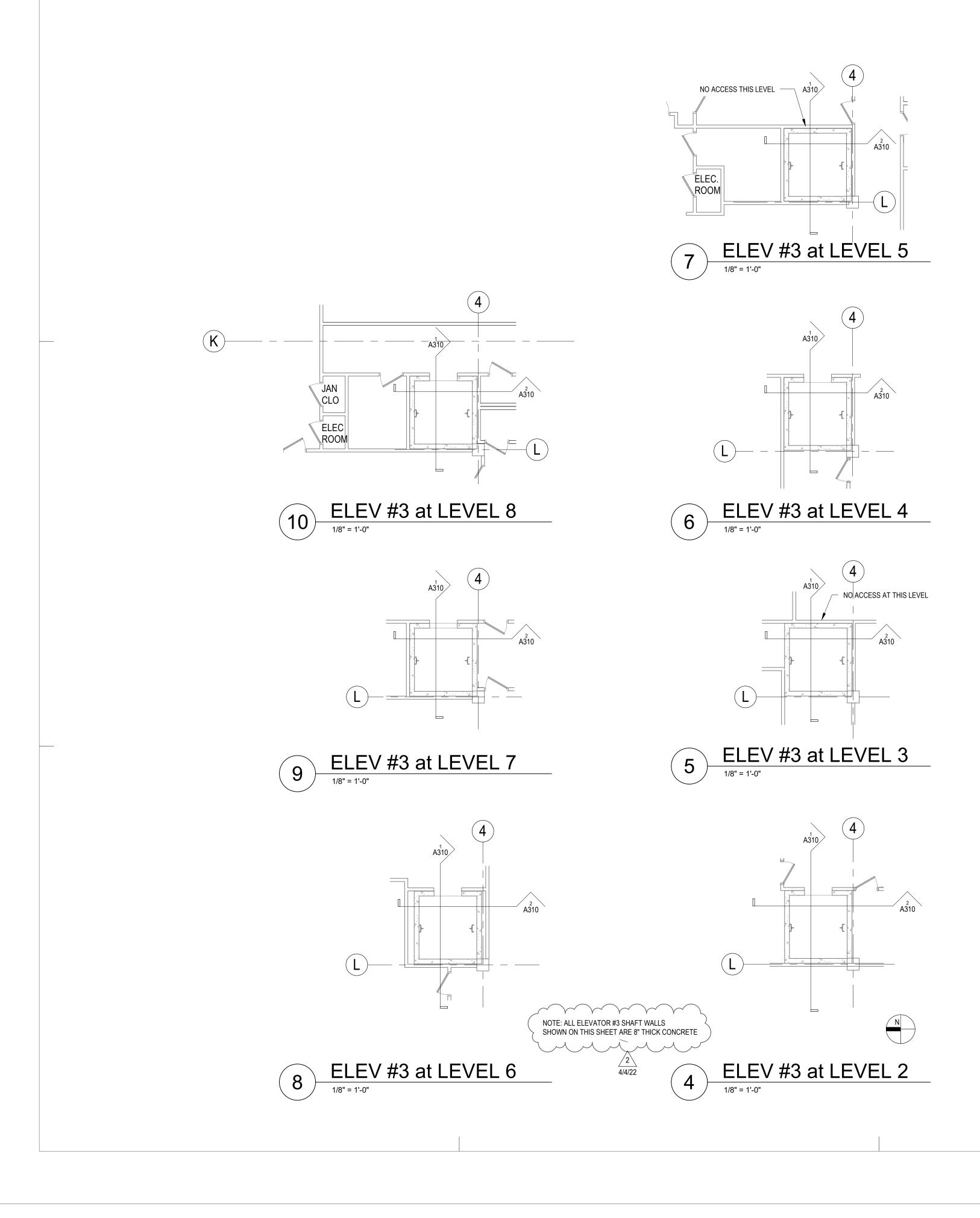
ENLARGED PLANS AND DETAILS, ELEV #3

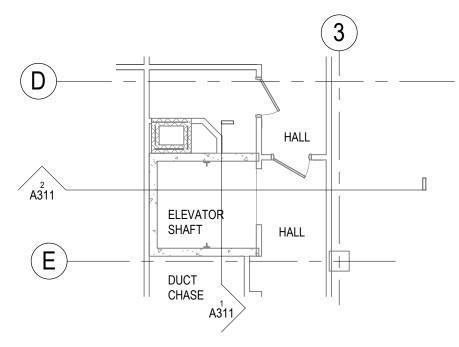
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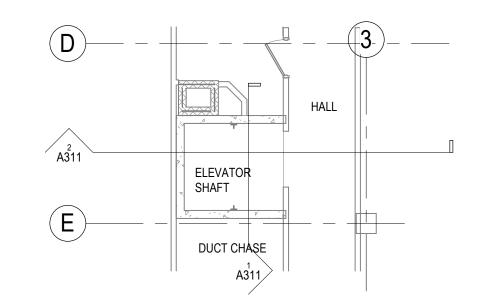
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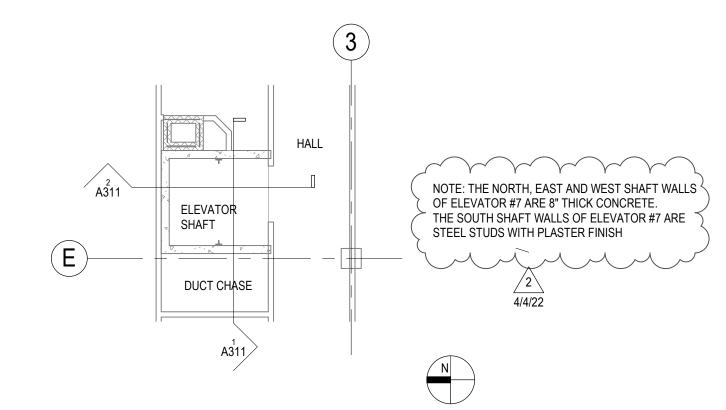




3 ELEV #7 at LEVEL 4



2 ELEV #7 at LEVEL 3



1 ELEV #7 at The review does not authorize violation of State or County building laws.

SEE SHEETS A401 AND A402 FOR TOP AND BOTTOM LEVEL ENLARGED FLOOR PLANS

SEE VT AND MPE SHEETS FOR NEW WORK. THESE PARTIAL PLANS ARE FOR REFERENCE ONLY

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PROJECT NO.

ISSUE DATE 100% **SET 10/14/21, 4/4/22**

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ENLARGED PLANS

SHEET NO.

GENERAL STRUCTURAL NOTES

- 1.01 GENERAL
- A. THE STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT THEY DO NOT INCLUDE COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND AROUND THE JOB SITE DURING CONSTRUCTION.
- B. GENERAL NOTES. SECTIONS AND TYPICAL DETAILS APPLY EVEN THOUGH NOT SPECIFICALLY REFERENCED ON STRUCTURAL DRAWINGS.
- 1.02 COORDINATION:
- A. STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION
- B. ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL AND SIGNATURE OF AN INSURED PROFESSIONAL STRUCTURAL OR CIVIL ENGINEER REGISTERED IN THE STATE IN WHICH THE SUBMITTED ITEMS WILL BE INSTALLED WHO IS A RECOGNIZED EXPERT IN THE TYPE OF WORK SHOWN AND
- C. ANY CHANGES PROPOSED BY THE CONTRACTOR TO THE DESIGN OF THE STRUCTURE DURING CONSTRUCTION SHALL BE SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF STRUCTURAL AND NON-STRUCTURAL ELEMENTS AFFECTED BY PROPOSED **CHANGES**
- D. VERIFY NEW AND EXISTING DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 2.01 FIELD EXECUTION:
- A. STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SHORING, GUYING AND OTHER MEANS TO AVOID EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.
- B. CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGE TO EXISTING STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS REQUIRED TO FACILITATE CONSTRUCTION OF THE WORK AND FOR ENSURING THE SAFETY, STABILITY AND INTEGRITY OF ADJACENT STRUCTURES AND FACILITIES.
- C. WHEN ANCHORING, SHOOTING, DRILLING, CHIPPING OR CORING INTO CONCRETE THE AREA SHALL BE SCANNED USING GROUND PENETRATING RADAR (GPR) PRIOR TO START OF WORK. DO NOT CUT OR NICK EXISTING REINFORCING.
- D. POWDER ACTUATED (EXPLOSIVE NOISE TYPE) FASTENER SYSTEMS SHALL NOT BE ALLOWED INSIDE PUBLIC OCCUPIED BUILDINGS WITHOUT OWNERS APPROVAL. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND OTHER SUBCONTRACTORS THE LOCATION, TIME OF DAY, AND OTHER FIELD CONDITIONS UNDER WHICH SUCH WORK MAY OCCUR INSIDE PUBLIC OCCUPIED BUILDINGS.

STRUCTURAL DESIGN PARAMETERS

- 1.01 GENERAL
- A. CONSTRUCTION SHALL COMPLY WITH THE BUILDING CODE AND OTHER APPLICABLE CODES AND STANDARDS.
- B. BUILDING CODE: CALIFORNIA EXISTING BUILDING CODE (CEBC 2019)
- 2.01 DESIGN CRITERIA: A. REFERENCE STANDARDS: MINIMUM DESIGN LOADS FOR BUILDINGS
- AND OTHER STRUCTURES, ASCE 7-16. B. LIVE LOADS:
- PLATFORM LIVE LOADS:
- i. UNIFORM DISTRIBUTED LOAD = 100 PSF
- ii. CONCENTRATED LIVE LOAD = 3000 LBS OVER 2.5FTx2.5FT AREA
- C. WIND LOAD PARAMETERS:
- 1. EXPOSURE CATEGORY = C 2. BASIC WIND SPEED = 98 MPH
- D. SEISMIC LOAD PARAMETERS:
- 1. STRUCTURAL RISK CATEGORY = III
- 2. SITE CLASS D 3. SEISMIC DESIGN CATEGORY = E NOTE: CONSERVATIVE SDC E ASSUMED IN LIEU OF SITE SPECIFIC
- **GROUND MOTION ANALYSIS.**
- 4. S(DS) = 1.391q5. S(D1) = SEE SEISMIC DESIGN CATEGORY
- NOTE: VALUE NOT AVAILABLE WITHOUT SITE SPECIFIC GROUND MOTION ANALYSIS.
- 6. S(1) = 0.708g7. S(s) = 1.739g
- 8. I(e)= 1.25
- 9. DESIGN BASE SHEAR: (N/A)
- 10.RESPONSE COEFFICIENT = C(s) = 0.2211.RESPONSE MODIFICATION FACTOR: R = 8
- 12.BSFR-SYSTEM = (N/A)
- 13. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE FOR NONSTRUCTURAL COMPONENTS.

SUBMITTALS

- 1.01 GENERAL:
- A. THE STRUCTURAL ENGINEER WILL REVIEW SUBMITTALS FOR COMPLIANCE WITH THE GENERAL DESIGN INTENT OF THE STRUCTURE AND REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- B. IF A SUBMITTAL CONTAINS VARIATIONS FROM THE CONTRACT DRAWINGS, NOTIFY THE STRUCTUAL ENGINEER IN WRITING DESCRIBING THE EXTENT AND REASON FOR THE VARIATION, AND CLEARLY IDENTIFY ALL ITEMS INVOLVED.
- C. RE-SUBMITTED SHEETS SHALL CLEARLY IDENTIFY ADDED OR CORRECTED INFORMATION AND THE ITEMS INVOLVED BY CLOUDING AROUND ADDED OR CHANGED INFORMATION.
- D. BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW, THE CONTRACTOR SHALL REVIEW, APPROVE, AND SO STAMP EACH SUBMISSION FOR CONFORMANCE WITH MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND WITH SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- E. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK SHOP DRAWINGS, AND COORDINATE SUBMITTAL INFORMATION AND CONTRACT INTERFACES PRIOR TO SUBMITTING FOR REVIEW.
- F. SUBMITTALS WILL BE RETURNED WITHOUT REVIEW IF CURSORY EXAMINATION REVEALS MAJOR ERRORS WHICH SHOULD HAVE BEEN FOUND BY THE CONTRACTOR'S CHECKING. MATERIAL NOT CALLED FOR OR WHICH HAS NOT BEEN APPROVED BY THE CONTRACTOR AND BEAR THEIR STAMP WILL BE RETURNED WITHOUT REVIEW
- G. WORK DONE PRIOR TO OR WITHOUT SUBMITTAL REVIEW AND APPROVAL BY THE ENGINEER IS PERFORMED AT THE CONTRACTOR'S OWN RISK AND RESPONSIBILITY.
- H. DIMENSION CHECKING AND CHECKING OF DESIGN CHANGES PROPOSED BY THE CONTRACTOR WITHOUT PRIOR CONSULTATION WITH THE ENGINEER SHALL BE CHECKED ONLY IF THE
- CONTRACTOR WISHES THEM TO BE CHECKED AT THEIR OWN COST I. ENGINEERING SUBMITTED FOR REVIEW SHALL BE APPROPRIATELY SEALED. FULL RESPONSIBILITY FOR SUCH ENGINEERING RESTS WITH THE PERSON SEALING THE DESIGN.
- 2.01 THE FOLLOWING ARE REQUIRED FOR SUBMITTAL FOR
- STRUCTURAL REVIEW: A. POST INSTALLED ANCHOR ASSEMBLY PRODUCT DATA
- B. STRUCTURAL STEEL SHOP DRAWINGS
- C. GRATING SHOP DRAWINGS D. REPORT OF ANCHOR TENSION TEST RESULTS

STRUCTURAL INSPECTION

- 1.01 GENERAL:
- A. THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL STRUCTURAL INSPECTORS IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
- 1.02 CONTRACTOR AND STRUCTURAL INSPECTOR RESPONSIBILITIES: A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SELF INSPECT THE STRUCTURAL WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. PRIOR TO REQUESTING ANY SPECIAL INSPECTION, STRUCTURAL INSPECTION PROVIDED BY OTHERS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY. STRUCTURAL DEVIATIONS FROM THE CONTRACT DOCUMENTS THAT ARE FOUND AT A LATER DATE AND ARE DECLARED TO BE SIGNIFICANT BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE CORRECTED BY THE
- CONTRACTOR WITH ALL DISPATCH. B. THE STRUCTURAL INSPECTOR IS NOT AUTHORIZED TO STOP OR DELAY THE WORK. IF THE CONTRACTOR ELECTS TO CONTINUE WITH CERTAIN WORK AFTER BEING NOTIFIED BY THE STRUCTURAL INSPECTOR THAT SUCH WORK IS UNACCEPTABLE, THE CONTRACTOR DOES SO AT THEIR OWN RESPONSIBILITY AND RISKS CORRECTING THE WORK AT A LESS OPPORTUNE TIME.
- C. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE FACILITIES FOR THE STRUCTURAL INSPECTOR TO INSPECT THE WORK SAFELY AND EFFICIENTLY. TWENTY-FOUR (24) HOUR NOTICE IS REQUIRED PRIOR TO INSPECTION.
- D. WORK MUST BE COMPLETED AT TIME OF INSPECTION. CONTRACTOR SHALL BEAR THE EXPENSE OF ADDITIONAL INSPECTIONS THAT MAY OCCUR BECAUSE OF INCOMPLETE OR INCORRECT WORK.
- E. INSPECTION OF WORK PROVIDED BY THE CONTRACTOR SUCH AS TEMPORARY SHORING OR JACKING SYSTEMS SHALL BE PROVIDED BY THE CONTRACTOR'S DESIGN ENGINEER FOR THOSE SYSTEMS. THE CONTRACTOR/ENGINEER SHALL PROVIDE A LETTER/REPORT TO BOTH THE OWNER AND ENGINEER OF RECORD THAT THESE INSPECTIONS HAVE BEEN COMPLETED BEFORE EACH PHASE OF SUCH WORK CAN PROCEED.
- F. THE STRUCTURAL INSPECTOR IS NOT RESPONSIBLE FOR OSHA COMPLIANCE OR FOR TEMPORARY CONSTRUCTION. SUCH AS BRACING.
- G. THE STRUCTURAL INSPECTOR IS NOT AUTHORIZED TO DIRECT OR APPROVE CHANGES FROM THE CONTRACT DOCUMENTS. IF THE CONTRACTOR WISHES TO QUESTION THE STRUCTURAL INSPECTOR'S INTERPRETATION OF THE CONTRACT DOCUMENTS, THEY MAY DO SO DIRECTLY WITH THE STRUCTURAL ENGINEER OF RECORD.

- 2.01 SHOP FABRICATIONS:
- A. SHOP FABRICATION WORK IS SUBJECT TO SPECIAL STRUCTURAL INSPECTION UNLESS THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM WORK WITHOUT SPECIAL INSPECTION.
- B. FABRICATOR SHALL SUBMIT CERTIFICATE OF COMPLIANCE STATING WORK PERFORMED IS IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS.
- 3.01 REQUIRED VERIFICATION AND SPECIAL INSPECTIONS

INSPECTION OF STEEL CONSTRUCTION			
INSPECTION ITEM	FREQUENCY O INSPECTION		
A. HIGH STRENGTH BOLTING:			
1. MATERIAL IDENTIFICATION MARKINGS	PERIODIC		
2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC		
3. BEARING-TYPE CONNECTIONS	PERIODIC		
B. WELDING OF STRUCTURAL STEEL:			
1. COMPELTE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS		
2. MULTIPASS FILLET WELDS	CONTINUOUS		
3. SINGLE-PASS FILLET WELDS > 5/16"	CONTINUOUS		
4. SINGLE-PASS FILLET WELDS < 5/16"	PERIODIC		
5. DECK, GRATING, AND PANEL WELDS	PERIODIC		
C. STRUCTURAL STEEL FRAMING:			
1. COMPLIANCE WITH CONSTRUCTION DOCUMENT DETAILS AND SPECIFICATIONS	PERIODIC		
2. MATERIALS IDENTIFICATION	PERIODIC		

INSPECTION OF POST-INSTALLED ANCHORS AND DOWELS (RE: PRODUCT ICC-ES EVALUATION REPORT)

INSPECTION ITEM	FREQUENCY OF INSPECTION	
A. ADHESIVE ANCHORS AND REINFORCEMENT DOWELS:		
1. VERIFY DRILL BIT TYPE AND SIZE	CONTINUOUS	
2. HOLE DEPTH AND CLEANING PROCEDURE	CONTINUOUS	
3. PRODUCT DESCRIPTION INCLUDING NAME, ROD TYPE, DIAMETER, AND LENGTH	CONTINUOUS	
4. ADHESIVE EXPIRATION DATE	CONTINUOUS	
5. PROPER INSTALLATION TECHNIQUE FOR ADHESIVE ANCHORS	CONTINUOUS	

- 1. "PERIODIC" SPECIAL INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF WORK. (IBC CHAPTER 17)
- 2. "CONTINUOUS" SPECIAL INSPECTION THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. (IBC CHAPTER 17)
- 3. ITEMS NOT LISTED MAY REQUIRE CONTINUOUS OR PERIODIC SPECIAL STRUCTURAL INSPECTION AT THE DISCRETION OF THE ENGINEER OF RECORD. ITEMS LISTED MAY REQUIRE ALTERNATE FREQUENCIES OF INSPECTION OTHER THAN SHOWN ABOVE UNDER DIRECTION OF THE ENGINEER OF RECORD.

STRUCTURAL OBSERVATION

- 1.01 GENERAL:
- A. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. THESE OBSERVATIONS DO NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTION AS DEFINED BY SPECIAL INSPECTION.
- B. THE STRUCTURAL OBSERVER IS NOT RESPONSIBLE FOR OSHA COMPLIANCE OR FOR TEMPORARY CONSTRUCTION, SUCH AS BRACING, SHORING, MEANS AND METHODS, ETC.
- C. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE FACILITIES FOR THE STRUCTURAL OBSERVER.
- D. THE STRUCTURAL OBSERVER IS NOT AUTHORIZED TO DIRECT OR APPROVE ANY CHANGES TO THE CONTRACT DOCUMENTS. IF CONTRACTOR WISHES TO QUESTION THE STRUCTURAL OBSERVER'S INTERPRETATION OF THE CONTRACT DOCUMENTS. THIS MAY BE DONE WITH THE APPROPRIATE MEASURES LISTED IN THE CONTRACT DOCUMENTS. THE STRUCTURAL OBSERVER IS NOT AUTHORIZED TO STOP OR DELAY THE WORK. IF THE CONTRACTOR ELECTS TO CONTINUE WITH THE CERTAIN WORK AFTER BEING NOTIFIED BY THE STRUCTURAL OBSERVER THAT SUCH WORK IS UNACCEPTABLE, THEY DO SO AT THEIR OWN RESPONSIBILITY AND
- E. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE STRUCTURAL WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. STRUCTURAL OBSERVATION PROVIDED BY OTHERS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY. DEFICIENCIES SHALL BE REPORTED BY THE STRUCTURAL OBSERVER IN WRITING.
- F. STRUCTURAL DEVIATIONS FROM THE CONTRACT DOCUMENTS FOUND AT A LATER DATE AND DECLARED TO BE SIGNIFICANT BY THE STRUCTURAL ENGINEER SHALL BE CORRECTED BY THE CONTRACTOR IMMEDIATELY.

GROUT

- 1.01 NON-SHRINK GROUT
- A. USE PLASTIC OR STIFF (DRY PACK), NON-METALLIC NON-SHRINK GROUT WITH MINIMUM 7,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. CONFORM TO THE REQUIREMENTS OF CRD-C 621 CORPS OF **ENGINEERS FOR NON-SHRINK GROUT**
- B. SATURATE THE AREA WITH POTABLE WATER FOR 24 HOURS IMMEDIATELY PRIOR TO APPLICATION OF THE GROUT PER THE MANUFACTURER'S RECOMMENDATIONS. WET CURE AND APPLY CURING COMPOUNDS TO EXPOSED GROUT SURFACES. C. USE BASF CONSTRUCTION GROUT, EUCO DRY PACK GROUT, OR
- EQUAL.
- 1.02 NON-SHRINK EPOXY GROUT A. USE POURABLE, NON-SHRINK, 100% SOLIDS FORMULA WITH
- MINIMUM 5000 PSI COMPRESSIVE STRENGTH AT 24 HOURS. B. ROUGHEN CONCRETE SURFACE AND EXPOSE AGGREGATE. APPLY TO CLEAN, DRY SURFACE PER MANUFACTURER'S RECOMMENDATIONS.
- C. USE BASF MASTERFLOW 648 CP. EUCO E3-F OR EQUAL.

POST-INSTALLED ANCHORS AND DOWELS

- 1.01 DESCRIPTION:
- A. THIS SECTION COVERS THE REQUIREMENTS FOR MATERIALS AND INSTALLATION OF POST-INSTALLED ADHESIVE ANCHORS, DOWELS AND MECHANICAL ANCHORS IN CONCRETE AND MASONRY CONSTRUCTION.
- B. DO NOT USE POST-INSTALLED ADHESIVE ANCHOR OR DOWELS SYSTEMS TO RESIST GRAVITY LOADS IN FIRE RATED CONSTRUCTION.
- C. POST INSTALLED ANCHORS AND DOWELS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS.
- D. DO NOT CUT EXISTING REINFORCING. GPR/XRAY/FERRO SCAN BEFORE STARTING WORK. COORDINATE HOLE LOCATION WITH SPECIAL INSPECTOR AND ENGINEER BEFORE CUTTING HOLE.
- 1.02 QUALITY ASSURANCE:
- A. PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH THE APPLICABLE ICC-ES REPORT, THE BUILDING CODE, AND THE GENERAL STRUCTURAL NOTES.
- B. INSTALL ALL ADHESIVE ANCHORS, DOWELS AND MECHANICAL ANCHORS PER ADHESIVE MANUFACTURER'S REQUIREMENTS.
- 1.03 ANCHOR SUBSTITUTION:
- A. SUBSTITUTION REQUESTS FOR POST-INSTALLED CONCRETE ANCHORS OTHER THAN THOSE SPECIFIED ON DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTE PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND OR STANDARDS AS REQUIRED BY THE BUILDING CODE. SUBSTITUTE MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI-355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE. SUBSTITUTED ADHESIVE ANCHORS SHALD HAVE BEEN PTESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH AND ISSUE AND ICC-ES AC308 FOR CRACKED CONCRETE. State of County building laws.
- B. ENGINEER RESERVE THE RIGHT TO REJECT ALL REQUESTS. DO NOT ORDER MATERIAL UNTIL REQUEST'S APPROVED. TO REMAIN ON

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GENERAL STRUCTURAL NOTES I

SHEET NO.

SHEET TITLE

- 2.01 ANCHORS RODS, BOLTS, AND SLEEVES:
- A. SUBMERGED, EXTERIOR, OR BURIED CONDITIONS: PROVIDE ASTM F593 AISI TYPE 316 STAINLESS STEEL ANCHOR BOLTS WITH ASTM F594 STAINLESS STEEL NUTS.
- B. INTERIOR CONDITIONS: PROVIDE ASTM A307 CARBON STEEL ANCHOR RODS (U.N.O.).
- 2.02 ADHESIVES FOR ANCHORS AND DOWELS IN CONCRETE:
- A. HIT-RE 500 V3 BY HILTI (ICC-ES REPORT #ESR-3814),
- B. SET-XP BY SIMPSON (ICC-ES REPORT #ESR-2508), C. OR APPROVED EQUAL.
- 2 O1 FIELD INISTALLATION:
- 3.01 FIELD INSTALLATION:
- A. INSTALL ANCHORS ONLY AFTER CONCRETE HAS REACHED ITS
- MINIMUM SPECIFIED STRENGTH.

 B. LOCATE ANCHORS TO AVOID DAM
- B. LOCATE ANCHORS TO AVOID DAMAGE TO REINFORCEMENT. USE GROUND PENETRATING RADAR (GPR) ON CONCRETE TO LOCATE THE EXISTING REINFORCING. MARK REINFORCING LOCATIONS ON THE CONCRETE SURFACE. COORDINATE LOCATIONS OF HOLES TO BE DRILLED WITH MARKS TO CLEAR THE EXISTING REINFORCING.
- C. INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. SEE SPECIAL INSPECTION REQUIREMENTS AND PRODUCT ICC-ES EVALUATION REPORT FOR INSPECTION REQUIREMENTS.
- D. CLEAN DRILLED HOLES AS REQUIRED TO REMOVE PARTICULATE DEBRIS AND TO ACHIEVE A DUST FREE SURFACE.
- E. TORQUE ADHESIVE ANCHORS UPON INSTALLING BASE MATERIAL, BUT ONLY AFTER ADHESIVE IS FULLY CURED AND LOAD TEST HAVE BEEN PERFORMED.
- 3.02 CONNECTION OF NEW STEEL PLATES TO EXISTING CONCRETE:
- A. SHIP CONNECTION PLATES TO THE JOBSITE WITHOUT HOLES.
 B. USE GROUND PENETRATING RADAR (GPR) TO LOCATE THE EXISTING REINFORCING. MARK REINFORCING LOCATIONS ON CONCRETE.
 MARK CONNECTION PLATE LOCATIONS ON THE CONCRETE SURFACE. DO NOT CUT EXISTING REINFORCING.
 REVIEW/COORDINATE WITH SPECIAL INSPECTOR/ENGINEER.
- C. DRILL HOLES PER THE MARKS. PLACE TO MISS EXISTING REINFORCING. DO NOT CUT EXISTING REINFORCING.
- D. PLACE CONNECTION PLATES OR TEMPLATE AGAINST EXISTING CONCRETE AND MARK HOLES LOCATIONS ON PLATES FROM MARKS PLACED ON THE CONCRETE SURFACE. VERIFY MARKS WITH DRILLED HOLES.
- E. REMOVE CONNECTION PLATE OR TEMPLATE FROM CONCRETE SURFACE AND FIELD DRILL HOLES.
- F. PLACE EXISTING PLATES AGAINST CONCRETE AND ALIGN HOLES IN PLATES WITH HOLES IN CONCRETE AND INSTALL ANCHORS.
- 3.03 LOAD TEST FOR ADHESIVE ANCHORS AND DOWELS REQUIREMENTS:
 A. THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE TESTING BY AN INDEPENDENT LABORATORY OF A MINIMUM OF 5% CHOSEN AT RANDOM BY THE TESTING LABORATORY AND CONFIRMED BY THE STRUCTURAL ENGINEER (BUT NO LESS THAN 15) OF EACH TYPE OF ANCHOR INSTALLED. IF ANY ANCHOR FAILS, THE TESTING SHALL BE INCREASED TO 20% (BUT NO LESS THAN 30) AND MAY BE FURTHER INCREASED AFTER REVIEW BY THE STRUCTURAL ENGINEER.
- B. FOR ANCHORS REQUIRING LOAD TESTING, APPLY THE LOAD PROVIDED ON PLANS AND DETAILS. SUSTAIN THE TENSION TEST LOAD FOR 5 MINUTES WITH NO DISCERNABLE MOVEMENT FROM THE ANCHOR.

STRUCTURAL STEEL

- 1.01 DESCRIPTION:
- A. THIS SECTION COVERS THE REQUIREMENTS FOR MATERIALS AND INSTALLATION OF STRUCTURAL STEEL.
- B. CONTRACTOR SHALL FIELD VERIFY ALL FLOOR TO SOFFIT DIMENSIONS BEFORE START OF STRUCTURAL STEEL FABRICATION. THE EXISTING SLOPING FINISH CONCRETE SOFFIT ELEVATIONS
- 1.02 SUBMITTALS:
- SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW. FABRICATE
 ONLY FROM REVIEWED DRAWINGS.
- 1.03 STRUCTURAL STEEL FABRICATOR'S QUALIFICATIONS:
 1. STRUCTURAL STEEL FABRICATOR MUST BE ON THE CITY'S PRE-APPROVED LIST AND PARTICIPATE IN THE AISC CERTIFICATION PROGRAM DESCRIBED IN AISC 201, AND BE DESIGNATED AN AISC CERTIFIED PLANT. CATEGORY STANDARD.
- 2.01 MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS, UNLESS NOTED OTHERWISE ON DRAWINGS:
- A. W-SHAPES ASTM A992, FY=50 KSI

VARIES THROUGHOUT THE BUILDING

- B. PLATES FOR W-SHAPE MEMBERS AND STRUCTURAL TUBES ASTM A572 GR 50
- C. OTHER ROLLED SECTIONS (ANGLES, CHANNELS, PLATES, ETC.)- ASTM A36, FY=36 KSI
- D. WHERE NOTED 50 KSI ON DRAWINGS ASTM A572, FY=50 KSI
- E. STEEL PIPE ASTM A53, TYPE E, GR.B, FY=35 KSI
- F. STRUCTURAL ROUND (HSS) ASTM A500, GR.C, FY=46 KSI
- G. STRUCTURAL TUBES (HSS) ASTM A500, GR B, FY=50KSI
 H. STRUCTURAL BOLTS U.N.O. ASTM F3125 (TYPE N CONNECTION)
- I. ANCHOR RODS/BOLTS ASTM F1554, GRADE 36, J. SHEET STEEL - ASTM A1011 GR36
- K. WELDING RODS E-70XX SERIES LOW HYDROGEN
- 2.02 FINISHES
- A. ALL STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED.

- 3.01 FIELD WELDING:
- A. FIELD WELDING, CUTTING AND GRINDING OF STEEL INSIDE THE PUBLIC OCCUPIED BUILDING SHALL NOT BE ALLOWED WITHOUT OWNERS APPROVAL. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE STEEL ERECTOR THE LOCATIONS, THE TIME OF DAY, SMOKE-FIRE ALARM SYSTEMS CONTROLS AND OTHER FIELD CONDITIONS UNDER WHICH WORK MAY OCCUR INSIDE THE PUBLIC OCCUPIED BUILDING DURING ALL PHASED CONSTRUCTION WORK.
- B. PROVIDE HOT WORK PERMITS. HOT WORK IS ANY WORK INVOLVING WELDING, TORCH CUTTING, GRINDING, OPEN-FLAME SOLDERING, BRAZING OR SIMILAR OPERATIONS CAPABLE OF INITIATING FIRES OR EXPLOSIONS.
- C. WELDING SHALL CONFORM TO THE FOLLOWING AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODES AS APPLICABLE.
 - 1. AWS D1.1 STRUCTURAL WELDING CODE-STEEL
- 2. AWS D1.3 STRUCTURAL WELDING CODE-SHEET STEEL
- AWS D1.4 STRUCTURAL WELDING CODE-REINF'G STEEL
 AWS D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
- 5. AWS D1.7 GUIDE FOR STRENGTHENING AND REPAIRING EXISTING STRUCTURES
- 6. AWS D1.8 STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT D. WELDERS SHALL HOLD VALID CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY WITHIN THE LAST 12 MONTHS. IF ANY CERTIFICATE IS MORE THAN 12 MONTHS OLD SUBMIT DETAILS OF
- COMPANY QUALITY CONTROL

 E. WELDERS SHALL SUBMIT WELDER QUALIFICATIONS AND WELDING
 PROCEDURE SPECIFICATIONS (WPS) TO THE ENGINEER FOR
 REVIEW PRIOR TO THE START OF WORK. QUALIFICATIONS AND WPS
- SHALL BE AVAILABLE ON SITE FOR REVIEW.

 F. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDS. SPLICES OF STEEL MEMBERS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE START OF WORK.
- G. GRIND SMOOTH ALL EXPOSED WELDS AND CUT EDGES. FINAL APPROVAL IS BY THE ARCHITECT.
- H. WELDING SHALL BE BY EITHER THE SHIELDED METAL ARC WELDING (SMAW) METHOD OR SHALL CONFORM TO AWS CODE FOR ARC AND GAS WELDING CONSTRUCTION.
 1. MECHANICAL PROPERTIES FOR THE IN-PLACE WELD (FILLER
- MATERIAL) SHALL HAVE CHARPY V-NOTCH IMPACT TOUGHNESS OF AT LEAST 20 FOOT-POUNDS AT 0 DEGREES.

 2. FIELD WELDS MAY NOT BE APPLIED OVER SHOP WELDS UNLESS A MANUFACTURER APPROVED COMPATIBLE ELECTRODE IS USED
- IN BOTH THE SHOP AND FIELD.

 3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOINT PREPARATION AND WELDING PROCEDURES INCLUDING, BUT NOT LIMITED TO: REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, AND TAPERS AND TRANSITIONS OF UNEQUAL PARTS.
- I. PROVIDE MINIMUM WELD SIZES PER AISC SPECIFICATIONS FOR GENERAL PROVISIONS FOR CONNECTIONS, JOINTS AND FASTENERS UNLESS SHOWN OTHERWISE ON DRAWINGS.
- J. FILLER MATERIAL OF LOW HYDROGEN CLASSIFICATION(S) SHALL BE STORED IN ACCORDANCE WITH AWS REQUIREMENTS AND PARAMETERS. LOW HYDROGEN ELECTRODES SHALL BE USED WITHIN 4 HOURS OF OPENING THEIR THERMETICALLY SEALED CONTAINERS. ELECTRODES THAT HAVE BEEN WET SHALL NOT BE USED AND SHALL BE REMOVED FROM THE SITE.
- 3.02 NONDESTRUCTIVE TESTING (NDT):
- A. VISUAL INSPECTION WILL BE PERFORMED ON ALL WELDING PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING.
- B. PERIODIC WELDING INSPECTIONS REQUIRE THAT THE MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK; PERIODIC INSPECTIONS ARE MADE DURING THE WORK; AND ALL WELDS RECEIVE A FINAL
- VISUAL INSPECTION.
 C. MAGNETIC PARTICLE TESTING
- TEST ENDS OF FULL PENETRATION WELDS AFTER REMOVING RUN-OFF TABS AND GRINDING SMOOTH, AND PRIOR TO ULTRASONIC TESTING.
- 2. TEST FILLET WELDS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- D. ULTRASONIC TESTING
- TEST BASE METAL THICKER THAN 1.5 INCHES IN THICKNESS AND CORNER JOINTS FOR DISCONTINUITIES BEHIND AND ADJACENT TO WELDS AFTER JOINT COMPLETION.
- 2. TEST ENTIRE LENGTH OF FULL PENETRATION WELDS.

- 3.03 BOLTING:
- A. MANUFACTURER CERTIFICATIONS OF BOLTING FOR FASTENER COMPONENTS USED IN THE FASTENER ASSEMBLIES SHALL BE MADE AVAILABLE TO THE ENGINEER OF RECORD AND INSPECTOR PRIOR TO ASSEMBLY OR ERECTION OF STRUCTURAL STEEL.
- B. HIGH STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED AND INSPECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
- C. THE USE OF FULL TENSION TORQUE CONTROL BOLT ASSEMBLIES IN SNUG TIGHT BEARING CONNECTIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- D. BOLTING SHALL BE TESTED AND REQUIRED VERIFICATIONS
 PERFORMED IN ACCORDANCE TO AISC SPECIFICATIONS PRIOR TO
 INSTALLATION.
- E. FASTENER COMPONENTS SHALL BE STORED ON SITE IN ACCORDANCE WITH AISC SPECIFICATIONS.
- F. PROVIDE WASHERS IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," SECTION 6. PROVIDE PLATE WASHERS WHEN OVERSIZED OR LONG SLOTTED HOLES ARE IN THE OUTER PLY OF A CONNECTION.
- 3.04 THERMAL CUTTING:
- A. DO NOT FLAME CUT STEEL MEMBERS IN THE FIELD UNLESS APPROVED BY THE ENGINEER.
- 3.05 ALL COLUMN BASE PLATES AND OTHER BEARING PLATES SHALL BE GROUTED OR DRY PACKED PRIOR TO THE PLACEMENT OF ANY DECKING.

GRATING AND COVER PANELS

- 1.01 GENERAL
- A. PROVIDE AND INSTALL GRATING SYSTEMS WHERE NOTED ON STRUCTURAL, PROCESS, OR MECHANICAL DRAWINGS COMPLETE WITH COVER PANELS AS NOTED ON DRAWINGS AND ALL NECESSARY ACCESSORIES INCLUDING, BUT NOT LIMITED TO, EMBEDDED EDGE ANGLES, MID-SUPPORT CLIPS, AND ANCHORAGES AT SUPPORTS. PROVIDE REQUIRED SEPARATION (BEARING PADS ETC.) BETWEEN NON-COMPATIBLE MATERIALS. COORDINATE CUTOUTS AS REQUIRED FOR PIPING AND EQUIPMENT PER ARCHITECTURAL AND VERTICAL TRANSPORTATION DRAWINGS.
- 1.02 SUBMITTALS:
- A. SUBMIT SHOP DRAWINGS AND LOAD TABLES FOR THE GRATING AND THEIR RESPECTIVE ATTACHMENTS TO THE ENGINEER FOR REVIEW.
- 1.03 QUALITY ASSURANCE:
- A. PROVIDE SIZES, ANCHORING DETAILS, FABRICATION TOLERANCES IN ACCORDANCE WITH THE LATEST EDITION OF NAAMM METAL BAR GRATING MANUAL (ANSI/NAAMM MBG 531).
- B. PROVIDE NON-SKID TRAFFIC SURFACE THAT CONFORMS TO FEDERAL SPECIFICATION RR-G-1602A.
- C. LIMIT THE WEIGHT OF INDIVIDUAL GRATING AND COVER PANEL UNITS DESIGNATED AS REMOVABLE TO 75 POUNDS.
- D. USE ANCHORAGE DEVICES AND FASTENERS TO SECURE ALL GRATING TO SUPPORT ELEMENTS OR PREPARED OPENINGS, AS RECOMMENDED BY THE MANUFACTURER. PROVIDE REMOVABLE FASTENERS FOR GRATING AND COVER PANELS THAT ARE REMOVABLE.
- 2.01 STEEL MATERIAL
- A. STEEL GRATING SHALL BE GALVANIZED CARBON STEEL BEARING BARS AND CROSS BARS WELDED TOGETHER. CROSS BARS MAY BE ROUND OR TWISTED. PROVIDE LOAD TYPE BANDING (WELD EACH BEARING BAR TO BAND BAR) CONTINUOUS ALONG EDGES AND CUTOUTS.
- 1. GRATING BEARING BARS, CROSS BARS, AND BAND BARS SHALL
- CONFORM TO ASTM A 1011/A COMMERCIAL STEEL, TYPE 2.

 2. HOT-DIP GALVANIZE GRATING AFTER FABRICATION IN CONFORMANCE WITH ASTM A 123/A GRADE 45 (COATING NOT LESS THAN 1.80Z/SQFT).
- i. MAXIMUM STEEL FIBER STRESS: 18,000 PSI (UNDER LIVE LOADS).
- 2.02 GRATING
- A. SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADING REQUIREMENTS IN ACCORDANCE WITH THE BUILDING CODE. THE FOLLOWING LOADING CONDITIONS NEED NOT BE APPLIED SIMULTANEOUSLY:
- B. UNIFORMLY DISTRIBUTED LIVE LOAD 300 PSF (WITH NO LIMIT ON DEFLECTION).
- C. CONCENTRATED LIVE LOAD: (WITH NO LIMIT ON DEFLECTION)
 1. 3000 LBS ON 2.5 FT x 2.5 FT AREA
 2. 300 LBS ON 2-INCH x 2-INCH AREA
- D. MAXIMUM DEFLECTION UNDER UNIFORMLY DISTRIBUTED LIVE LOAD OF 100 PSF OR CONCENTRATED LIVE LOAD OF 1000 LBS ON 1.0FT X 1.0FT AREA: 1/4" MAX OR SPAN/240, WHICHEVER IS LESS
- 3.01 FIELD EXECUTION:
- A. ALL GRATING SHALL BE PERMANENTLY INSTALLED BY FIELD WELDING TO ALL END BEARING AND INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE AS REMOVABLE ON DRAWINGS. SECURE REMOVABLE GRATING TO END BEARING AND INTERMEDIATE SUPPORTS USING REMOVABLE DEVICES AND FASTENERS AS RECOMMENDED BY THE MANUFACTURER.

 B. ALL COVER PANELS SHALL BE INSTALLED AS REMOVABLE.



HALL OF JUSTICE
Elevator #3 and #7 Modernization
400 COUNTY CENTER

REDWOOD CITY. CA 94063

CLIENT
County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

VTX

➤ VERTICAL

TRANSPORTATION Elevator and Escalator Consulting
EXCELLENCE a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957

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ISSUE DATE 100% SET 10/14/21

SHEET TITLE

PROJECT NO.

GENERAL STRUCTURAL NOTES II

SHEET NO

S002

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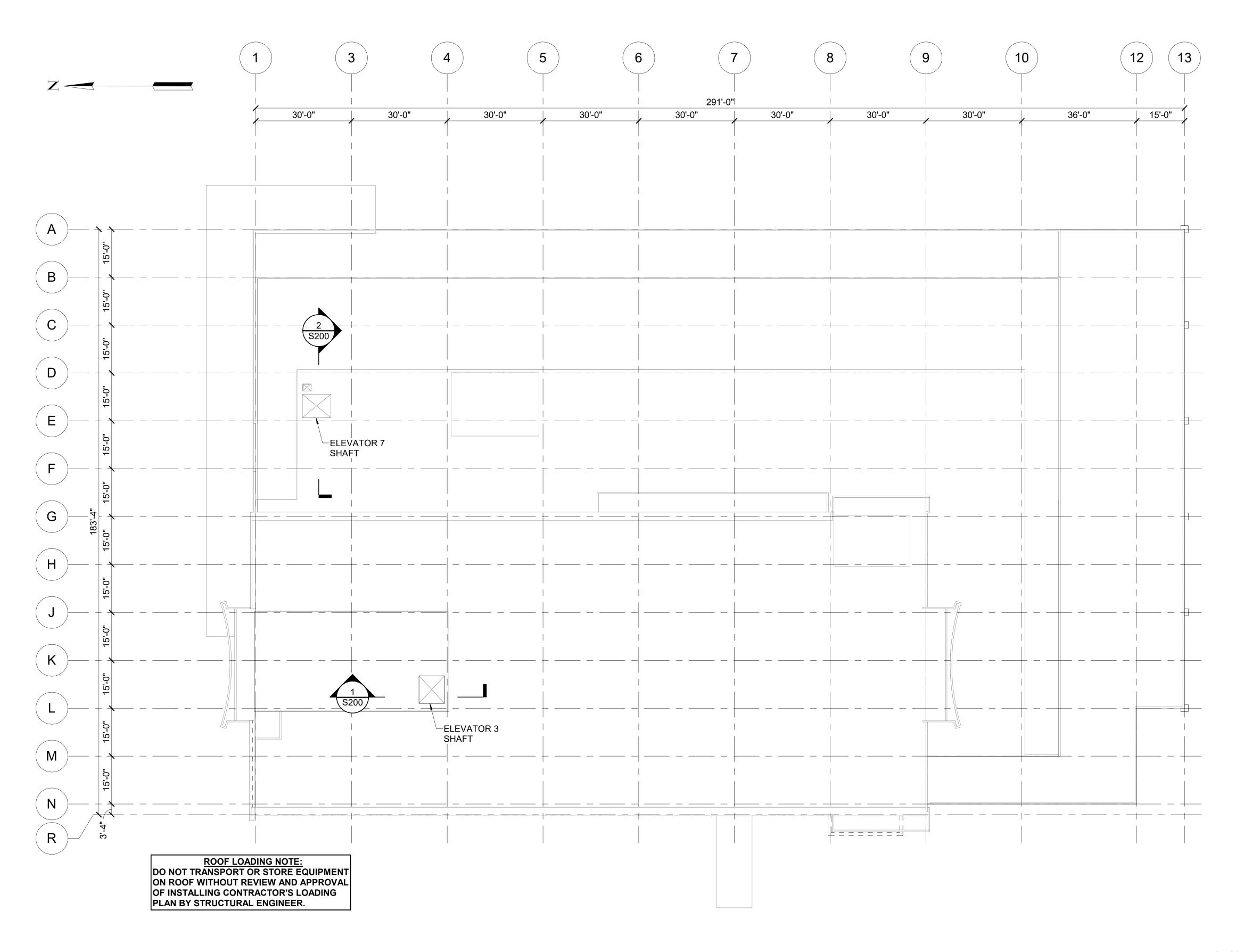
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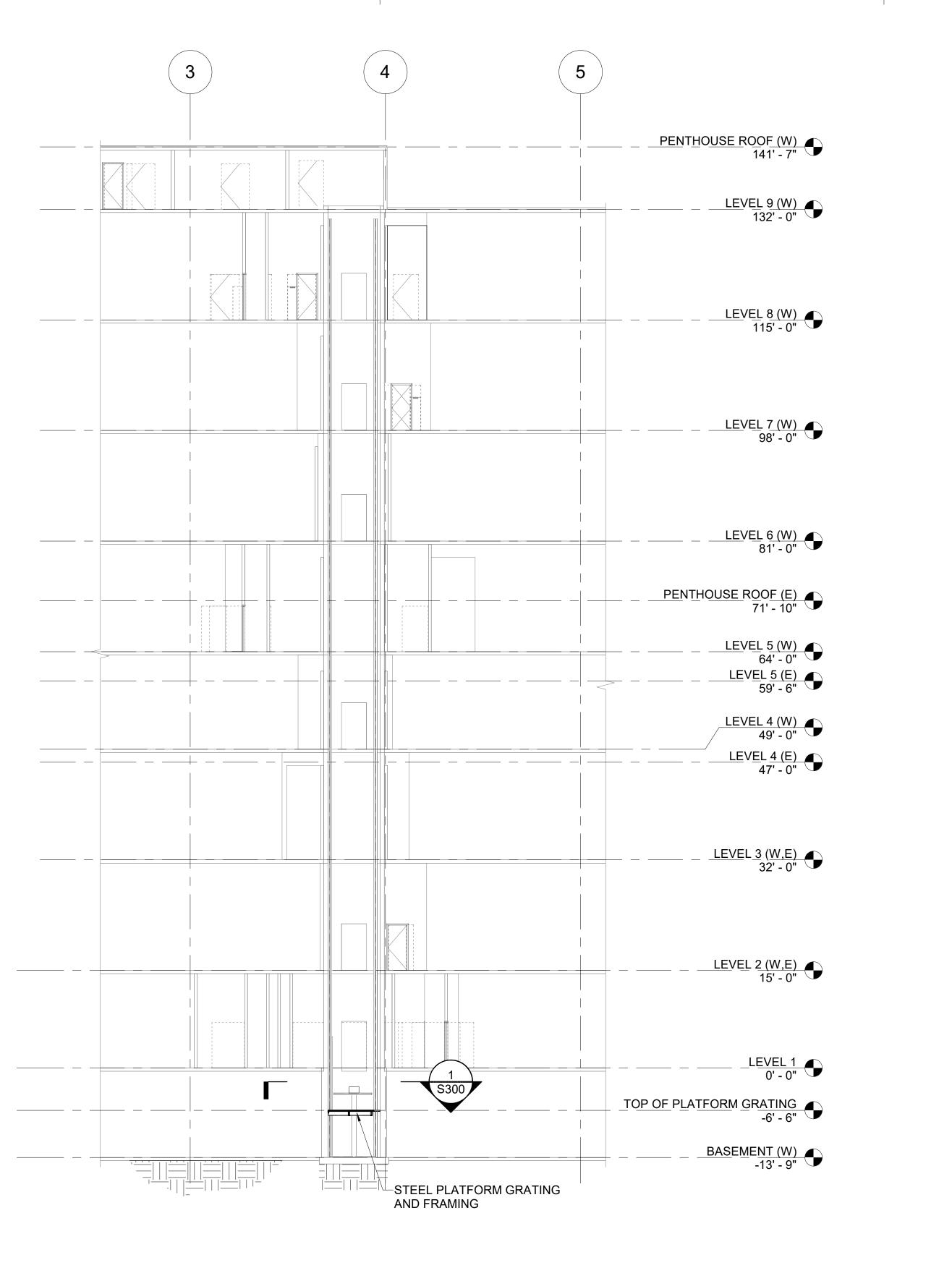
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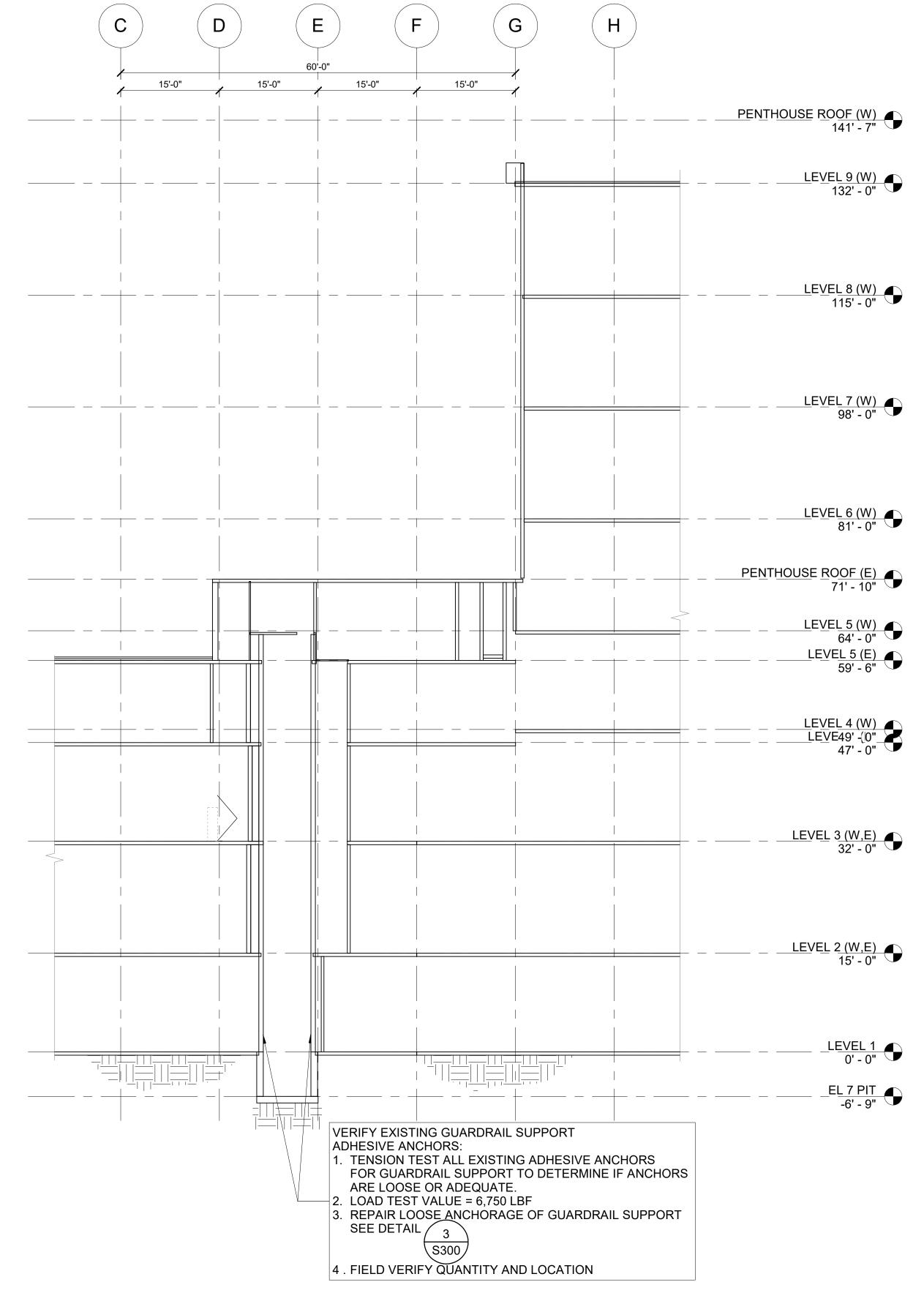
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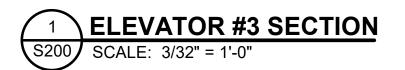
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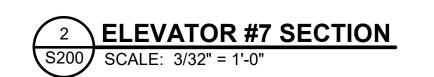
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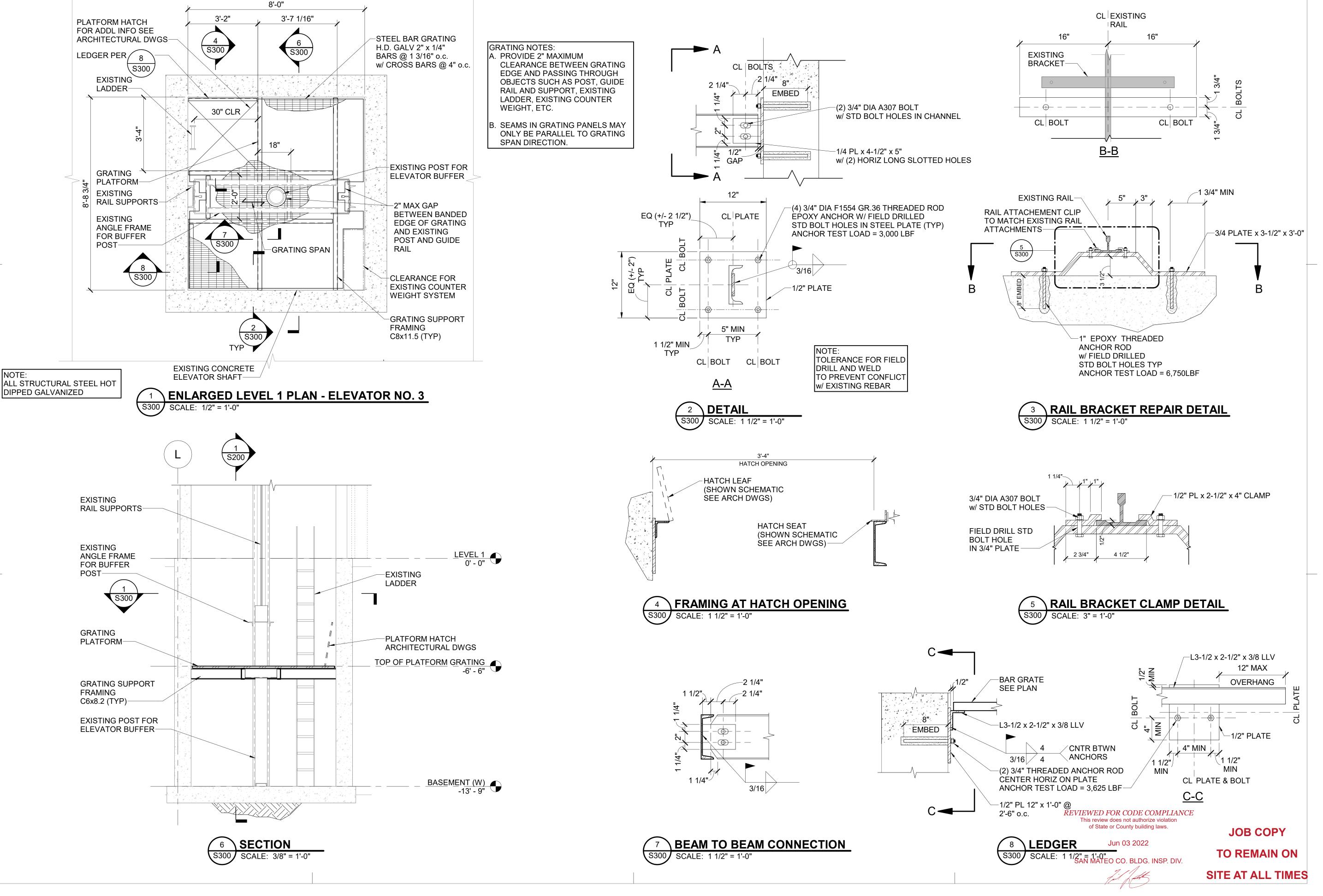
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ELEVATOR 3 PLAN

SHEET NO.

GENERAL NOTES

- THIS CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIAL NECESSARY TO INSTALL A COMPLETE MECHANICAL SYSTEM AS SHOWN AND SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. REFER TO PROJECT SPECIFICATIONS FOR FURTHER PROJECT REQUIREMENTS.
- THE DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED FOR CONSTRUCTION PURPOSES. THIS CONTRACTOR IS TO COORDINATE EXACT EQUIPMENT LOCATIONS AND ROUTING OF DUCTWORK, PIPING, DIFFUSERS. ETC., WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE BUILDING CONDITIONS. THE ROUTING SHOWN ON THE DRAWINGS WAS USED FOR PRESSURE DROP CALCULATIONS. NOTIFY THE ENGINEER OF SIGNIFICANT INSTALLATION DEVIATIONS.
- TESTING, ADJUSTING & BALANCING FOR HVAC
- 1. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM INCLUDED IN THIS PROJECT, ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE" OR NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS," AND IN THIS SECTION.
- 2. SET HVAC SYSTEMS PLUS OR MINUS 10 PERCENT OF THE DESIGN FLOW SHOWN.
- 3. TESTING & BALANCING CONTRACTOR TO MEASURE AND SET ALL AIR AND HYDRONIC SYSTEMS AS SHOWN ON THE DRAWINGS.
- 4. PROVIDE THE FOLLOWING ADDITIONAL TAB INFORMATION WITHIN THE FINAL REPORT: a. TESTING AND VERIFICATION OF ALL FIRE AND SMOKE CONTROL DEVICES, INCLUDING EACH FIRE DAMPER, SMOKE DETECTOR, SMOKE DAMPER, COMBINATION FIRE/SMOKE DAMPER, AND DAMPER ACTUATOR.
- b. OUTDOOR AIR SUMMARY REPORT INCLUDING A SUMMARY REPORT FOR REVIEW BY THE AUTHORITIES HAVING JURISDICTION THAT LISTS EACH SUPPLY-AIR SYSTEM ON THE PROJECT. THE REPORT SHALL INDICATE THE SYSTEM OR EQUIPMENT DESIGNATION, THE SCHEDULED OUTDOOR-AIR FLOW RATE AND THE BALANCED OUTDOOR-AIR FLOW RATE.
- 5. PREPARE SPECIAL INSPECTION REPORTS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, AS REQUIRED
- THE CONTRACTOR SHALL FURNISH THE NECESSARY LABOR TO ASSIST THE TAB AGENCY TO COMPLETE ITS WORK.
- MOUNT WALL-MOUNTED THERMOSTATS, TEMPERATURE SENSORS, AND OTHER CONTROL DEVICES IN ELECTRICAL OUTLET BOXES. HORIZONTALLY CENTER TO MATCH LIGHTING CONTROLS HEIGHT, BUT NOT MORE THAN 48 INCHES AFF OR LESS THAN 40 INCHES AFF. VERIFY LOCATION OF DEVICES WITH ROOM DETAILS BEFORE INSTALLATION.
- HVAC DRAIN AND CONDENSATE PIPING SHALL TERMINATE INDIRECTLY ABOVE AN APPROVED LOCATION WITH AN AIR GAP ABOVE THE FLOOD RIM NOT LESS THAN TWO TIMES THE EFFECTIVE OPENING OF THE PIPE.
- 3. PROVIDE SEISMIC BRACING PER DRAWINGS SUBMITTED BY SEISMIC DESIGN ENGINEER. CONTACT MASON INDUSTRIES OR INTERNATIONAL SEISMIC APPLICATION TECHNOLOGIES (ISAT) FOR ENGINEERED DRAWINGS. PROVIDE MECHANICAL ENGINEER ON RECORD WITH SUBMITTALS ON SEISMIC DESIGN DRAWINGS FOR APPROVAL. SEE MECHANICAL DESIGN CRITERIA.
- REFRIGERANT PIPING SHALL BE COPPER, TYPE ACR, ANNEALED-TEMPER TUBING AND WROUGHT-COPPER FITTINGS WITH BRAZED JOINTS OR REFRIGERANT LINE KITS FOR NPS 1-1/2 AND SMALLER. REFRIGERANT LINE KITS SHALL BE SOFT-ANNEALED COPPER SUCTION AND LIQUID LINES, FACTORY CLEANED, DRIED, PRESSURIZED AND SEALED; FACTORY-INSULATED SUCTION LINE WITH FLARED FITTINGS AT BOTH ENDS FURNISHED AND FOR USE WITH UNITARY EQUIPMENT. INSTALL PIPING PER ASHRAE 15 AND THE MANUFACTURER'S REQUIREMENTS.
- CONDENSATE DRAIN PIPING SHALL BE ASTM B-88, TYPE L OR ASTM B-306, TYPE DWV COPPER WITH WROUGHT-COPPER FITTINGS AND SOLDERED JOINTS, ASTM B-32, LEAD-FREE ALLOY SOLDER WITH FLUSHABLE FLUX. SLOPE HORIZONTAL PIPING AT A MINIMUM 1/8" PER FOOT TOWARDS DRAIN LINE CONNECTION. PROVIDE THREADED CLEANOUT PLUGS AT EACH 90 DEGREE CHANGE OF DIRECTION.
- INSTALL PIPE INSULATION CONTINUOUSLY THROUGH PARTITIONS, HANGERS AND AROUND ANCHOR ATTACHMENTS. WHERE VAPOR BARRIER IS INDICATED, SEAL JOINTS, SEAMS AND PENETRATIONS IN INSULATION AT HANGERS, SUPPORTS, ANCHORS AND OTHER PROJECTIONS WITH VAPOR-BARRIER MASTIC. INSTALL INSULATION OVER FITTINGS, VALVES, STRAINERS, FLANGES, UNIONS, AND OTHER SPECIALTIES WITH CONTINUOUS THERMAL AND VAPOR-RETARDER INTEGRITY UNLESS OTHERWISE INDICATED.
- INDOOR AND OUTDOOR REFRIGERANT SUCTION PIPING IS TO BE INSULATED WITH 1 INCH THICK FLEXIBLE ELASTOMERIC INSULATION.
- INDOOR AIR CONDITIONING CONDENSATE DRAIN PIPING IS TO BE INSULATED WITH CLOSED-CELL FOAM, PREFORMED PIPE INSULATION WITH VAPOR BARRIER JACKET, TYPE I, 3/4 INCH THICK.
- PROVIDE ALUMINUM INSULATION JACKET OVER ALL EXTERNALLY INSULATED PIPING EXPOSED TO WEATHER. INSTALL ALUMINUM JACKET WITH ALUMINUM BANDS SPACED EVERY 12 INCHES. DO NOT USE SCREWS TO SECURE ALUMINUM
- PROVIDE PVC JACKET OVER ALL INSULATED PIPING EXPOSED TO VIEW WITHIN THE BUILDING.

MECHANICAL DESIGN CRITERIA

REDWOOD CITY, CALIFORNIA 20 FT. ELEVATION

OUTDOOR DESIGN TEMPERATURES: SUMMER: 115°F DRY BULB/78°F WET BULB WINTER: 34°F DRY BULB

INDOOR DESIGN TEMPERATURES: (THE 2019 CALIFORNIA ENERGY CONSERVATION CODE REQUIRES A MINIMUM COOLING TEMPERATURE OF 75°F AND A MAXIMUM HEATING TEMPERATURE OF 72°F)

SPACE TYPE
ELEVATOR MACHINE ROOMS

2019 CALIFORNIA BUILDING CODE W/ AMENDMENTS 2019 CALIFORNIA PLUMBING CODE W/ AMENDMENTS 2019 CALIFORNIA FIRE CODE W/ AMENDMENTS

2019 CALIFORNIA MECHANICAL CODE W/ AMENDMENTS 2019 CALIFORNIA FUEL GAS CODE W/ AMENDMENTS 2019 CALIFORNIA ENERGY CODE W/ AMENDMENTS

SEISMIC RESTRAINT CRITERIA FOR MECHANICAL **EQUIPMENT**:

BUILDING RISK CATEGORY: III SEISMIC DESIGN CATEGORY: E COMPONENT IMPORTANCE FACTOR (APPLIES TO ALL MECHANICAL EQUIPMENT UNLESS NOTED OTHERWISE)

WIND RESTRAINT CRITERIA FOR EXTERIOR MOUNTED MECHANICAL EQUIPMENT: BASIC WIND SPEED: 98 MPH

BUILDING CLASSIFICATION CATEGORY: III MINIMUM 10 LB/SF MULTIPLIED BY THE MAXIMUM AREA OF THE HVAC COMPONENT PROJECTED ON A VERTICAL PLANE THAT IS NORMAL TO THE WIND DIRECTION AND 45 DEGREES ON EITHER SIDE OF NORMAL.

MECHANICAL SHEET INDEX			
SHEET NUMBER	SHEET TITLE		
M001	MECHANICAL GENERAL SHEET		
M250	OVERALL MECHANICAL PLAN - 5TH FLOOR		
M251	PARTIAL MECHANICAL PLAN - 5TH FLOOR		
M280	OVERALL MECHANICAL PLAN - 8TH FLOOR		
M290	OVERALL MECHANICAL PLAN - PENTHOUSE		
M291	PARTIAL MECHANICAL PLAN - 8TH FLOOR AND PENTHOUSE		
M601	MECHANICAL DETAILS		
M701	MECHANICAL SCHEDULES		

MECHANICAL LEGEND			
SYMBOL	ABBR	DESCRIPTION	
SYSTEM TYPE — #"* PIPE SIZE —	CD D	CONDENSATE DRAIN DRAIN	
		BALL VALVE	
	DN	RISER DOWN	
0	UP	RISER UP	
<u> </u>		CAP	
•		THERMOSTAT / TEMPERATURE SENSOR	
•	POC	POINT OF CONNECTION	

ARREVIATIONS

	ABBREVIATIONS				
A#	NUMBER	HORZ	HORIZONTAL		
#/P###	DETAIL # ON SHEET P###	HP	HORSEPOWER		
°F	DEGREES FAHRENHEIT	HR	HOUR		
Δ	DELTA (CHANGE)	HTR	HEATER		
% (D)	PERCENTAGE DEMOLITION	HW HZ	HOT WATER HERTZ		
(E)	EXISTING	IDF	INDOOR FAN		
(N)	NEW	IN	INCH		
ABSORP	ABSORPTION	IPLV	INTEGRATED PART LOAD VALUE		
AD	ACCESS DOOR	IN HG	INCHES OF MERCURY		
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	IN WG KW	INCHES OF WATER GAGE		
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	I L	KILOWATTS LENGTH		
AIC	AMPERES INTERRUPTING CURRENCY	LAT	LEAVING AIR TEMPERATURE		
AMB	AMBIENT	LBS	POUNDS		
ALUM	ALUMINUM	LVG	LEAVING		
AP APD	ACCESS PANEL AIR PRESSURE DROP	LWT MAX	LEAVING WATER TEMPERATURE MAXIMUM		
APD	AUTOMATIC AIR VENT	MBH	THOUSAND BTU PER HOUR		
BARO	BAROMETRIC	MCA	MINIMUM CURRENT AMPACITY		
BAS	BUILDING AUTOMATION SYSTEM	MCC	MOTOR CONTROL CENTER		
BDD	BACKDRAFT DAMPER	MECH	MECHANICAL		
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM		
BFG BHP	BELOW FINISHED GRADE BRAKE HORSEPOWER	MOCP MTG	MAXIMUM OVER CURRENT PROTECTION MOUNTING		
BLDG	BUILDING	MV	MANUAL AIR VENT		
BTU	BRITISH THERMAL UNIT	NC	NORMALLY CLOSED		
BTUH	BRITISH THERMAL UNIT PER HOUR	NO	NORMALLY OPEN		
CAP	CAPACITY	NOM	NOMINAL		
CFH CFM	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE	NPS H NTS	NET POSITIVE SUCTION HEAD NOT TO SCALE		
CHW	CHILLED WATER	OBD	OPPOSED BLADE DAMPER		
CO	CARBON MONOXIDE	occ	OCCUPANCY		
CO2	CARBON DIOXIDE	ODF	OUTDOOR FAN		
COMB CMPR	COMBUSTION COMPRESSOR	OPER OSA	OPERATING OUTSIDE AIR		
CONFIG	CONFIGURATION	PD	PRESSURE DROP		
CONN	CONNECTION	PH	PHASE		
CTRL	CONTROL	PPM	PARTS PER MILLION		
D OD G	DEPTH	PRESS PSI	PRESSURE POUNDS PER SQUARE INC		
DIA OR \varnothing	DIAMETER DECIBELS	PSIA	POUNDS PER SQUARE INC POUNDS PER SQUARE INCH ABSOLUTE		
DB	DRY BULB	PSIG	POUNDS PER SQUARE INCH GAGE		
DIFF	DIFFERENTIAL	QTY	QUANTITY		
DIST	DISTANCE	RA	RETURN AIR RECIRCULATING		
DN DWG	DOWN DRAWING(S)	RECIRC REFRIG	REFRIGERATION		
DWG	DIRECT EXPANSION	REGEN	REGENERATION		
EA	EXHAUST AIR	REQ'D	REQUIRED		
EAT	ENTERING AIR TEMPERATURE	RH	RELATIVE HUMIDITY		
EDR	EQUIVALENT DIRECT RADIATION	RPM SA	REVOLUTIONS PER MINUTE SUPPLY AIR		
EER EFF	ENERGY EFFICIENCY RATIO EFFICIENCY	SD	SMOKE DETECTOR		
ELEV	ELEVATION	SFD	SMOKE AND FIRE DAMPER		
ENT	ENTERING	S&R	SUPPLY AND RETURN		
ESP	EXTERNAL STATIC PRESSURE	SEER SENS	SEASONAL ENERGY EFFICIENCY RATIO		
EVAP EWT	EVAPORATIVE ENTERING WATER TEMPERATURE	SF	SENSIBLE SQUARE FEET OR SQUARE FOOT		
EXH	EXHAUST	SQ IN	SQUARE INCH		
EXT	EXTERNAL	SS	STAINLESS STEEL		
FD	FIRE DAMPER	SYS	SYSTEM		
FF	FRICTION FACTOR	TEMP TSP	TEMPERATURE TOTAL STATIC PRESSURE		
FF FLA	FINISHED FLOOR FULL LOAD AMPS	T-STAT	THERMOSTAT		
FLEX	FLEXIBLE	TYP	TYPICAL		
FPI	FINS PER INCH	UNO	UNLESS NOTED OTHERWISE		
FPM	FEET PER MINUTE	VED	VOLT(S)		
FPS FS	FEET PER SECOND FLOW SWITCH	VFD VD	VARIABLE FREQUENCY DRIVE VOLUME DAMPER		
FS FT	FEET OR FOOT	VEL	VELOCITY		
GA	GAGE	W	WIDTH		
GAL	GALLON(S)	W W	WATTS		
GPH CPM	GALLONS PER HOUR	W/ W/O	WITH WITHOUT		
GPM GRS	GALLONS PER MINUTE GRAINS	WB WB	WET BULB		
GSM	GALVANIZED SHEET METAL	WPD	WATER PRESSURE DROP		
Н	HEIGHT	WT	WEIGHT		
H2S	HYDROGEN SUI FIDE	1			

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H2S

HYDROGEN SULFIDE

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REDWOOD CITY, CA 94063

County of San Mateo

PROJECT MANAGER

Department of Public Works

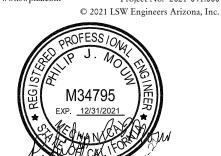
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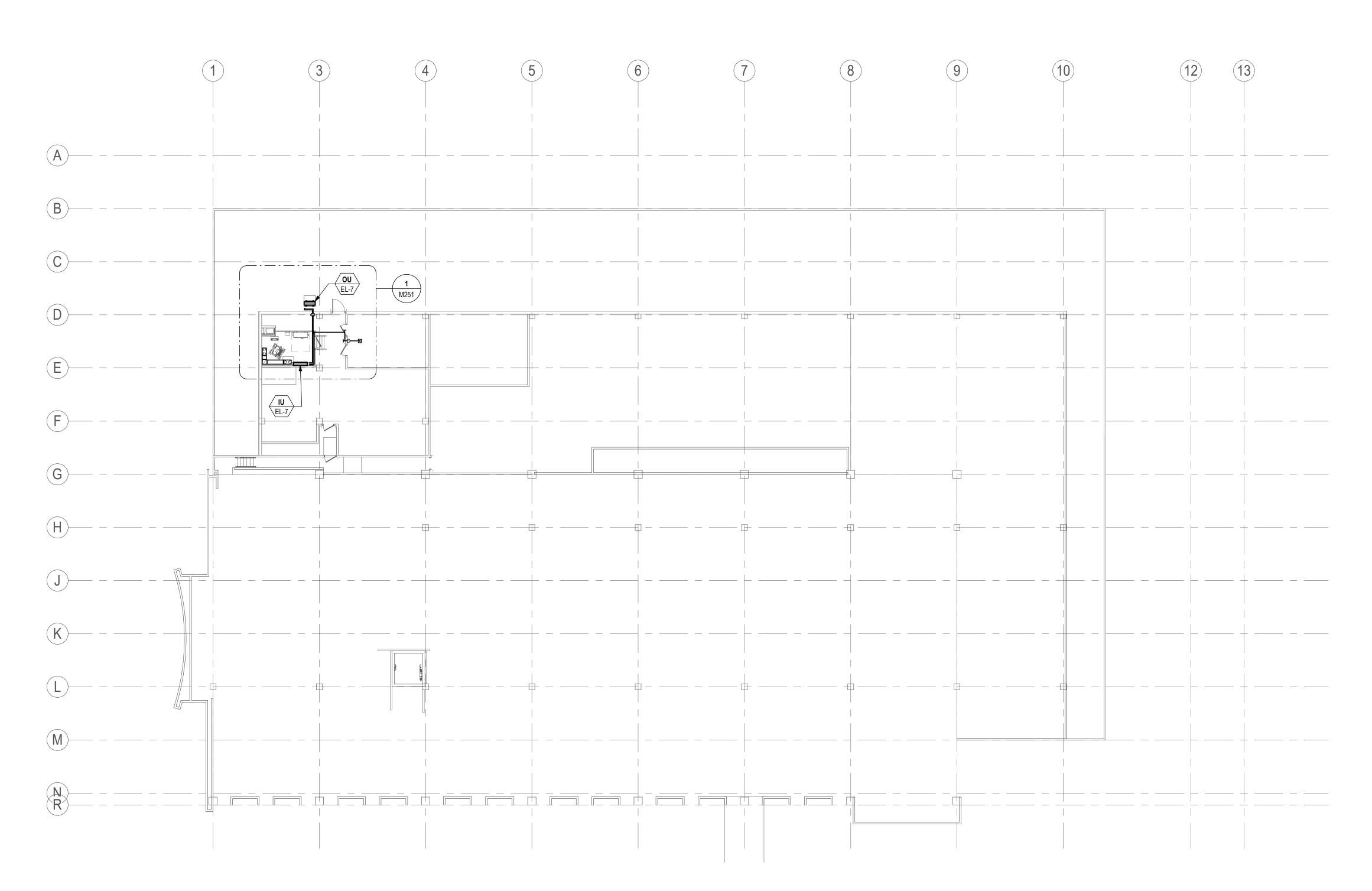
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MECHANICAL GENERAL SHEET

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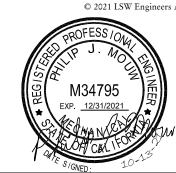
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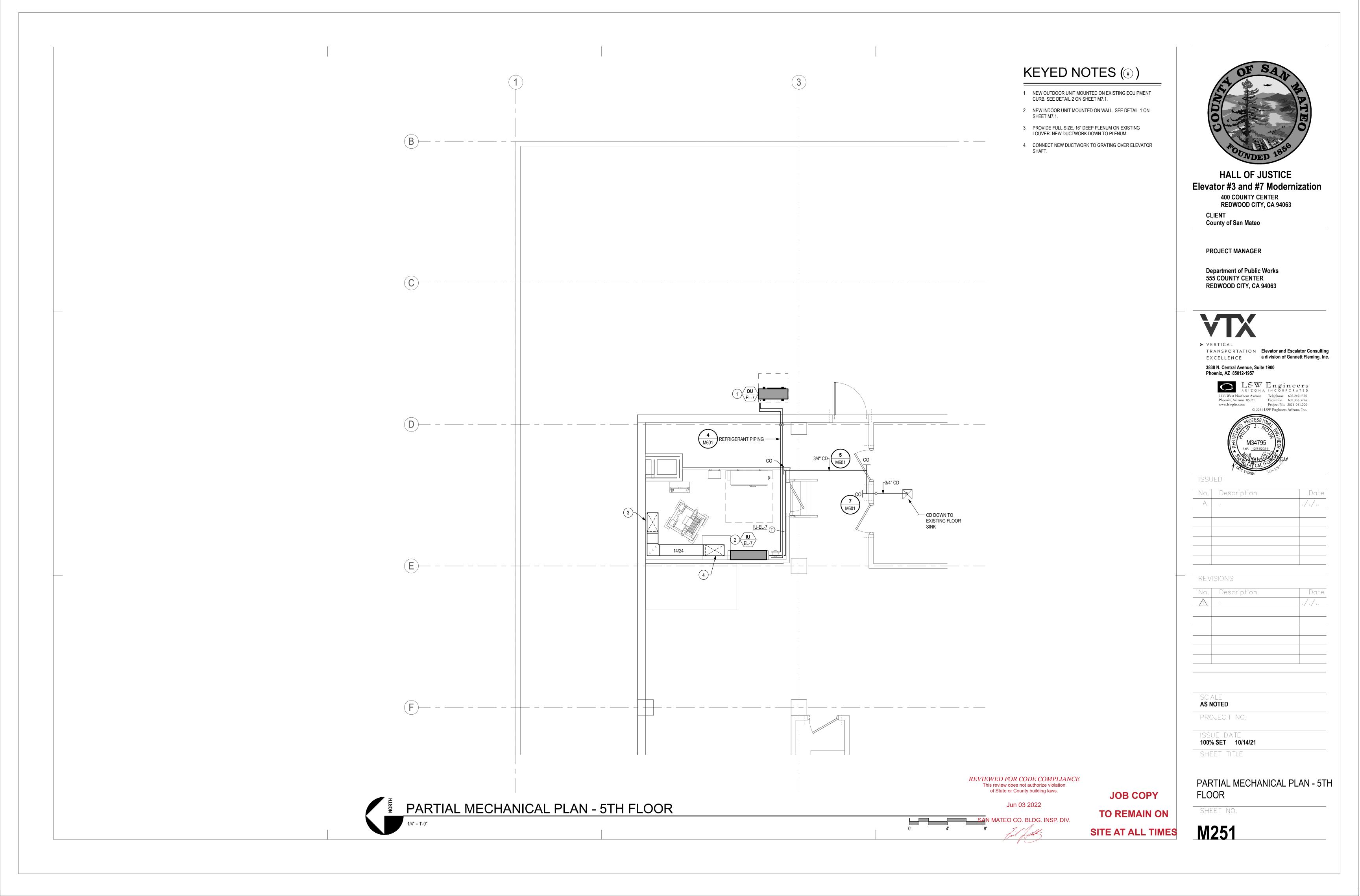
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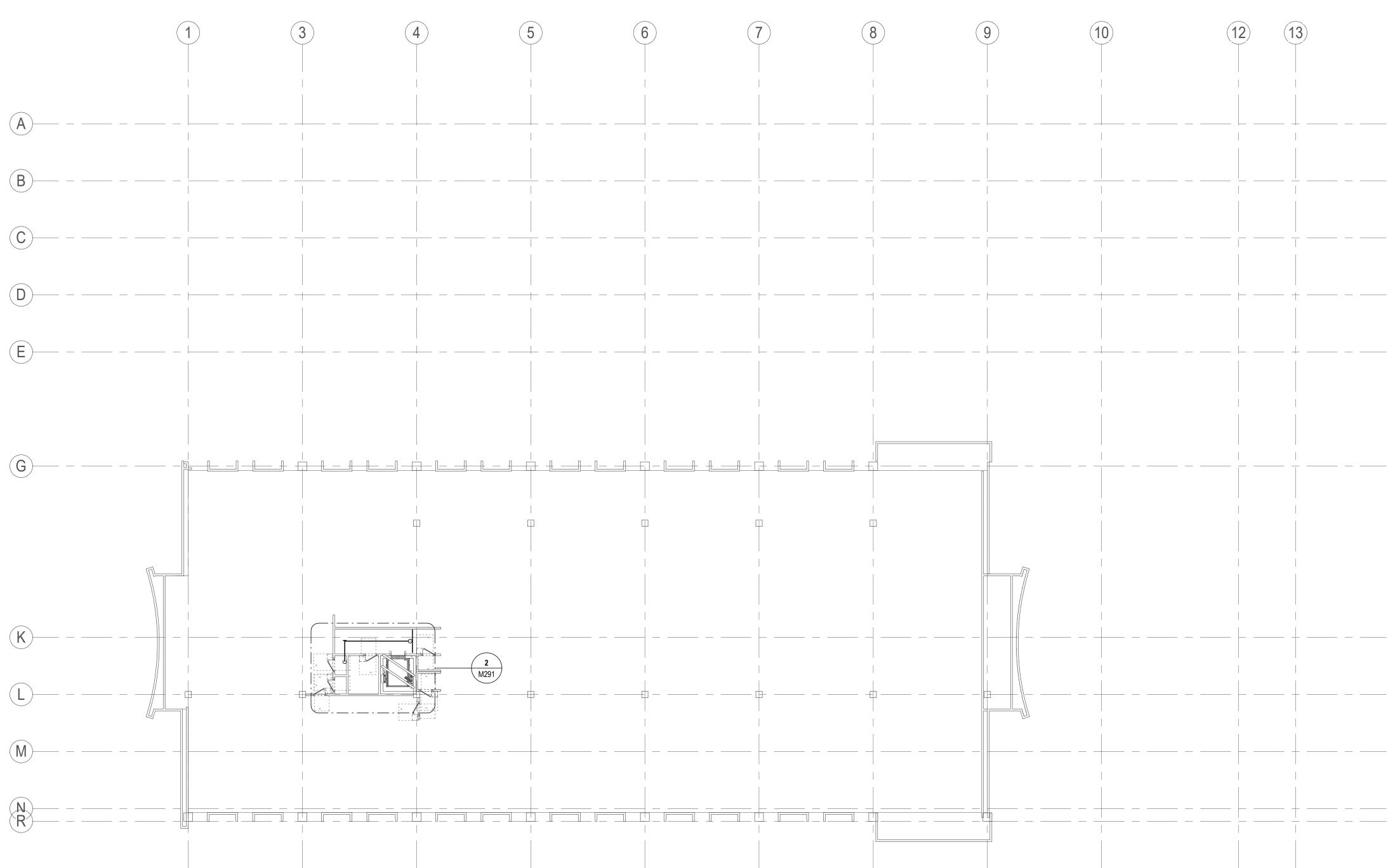
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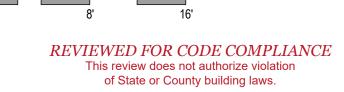
OVERALL MECHANICAL PLAN -5TH FLOOR

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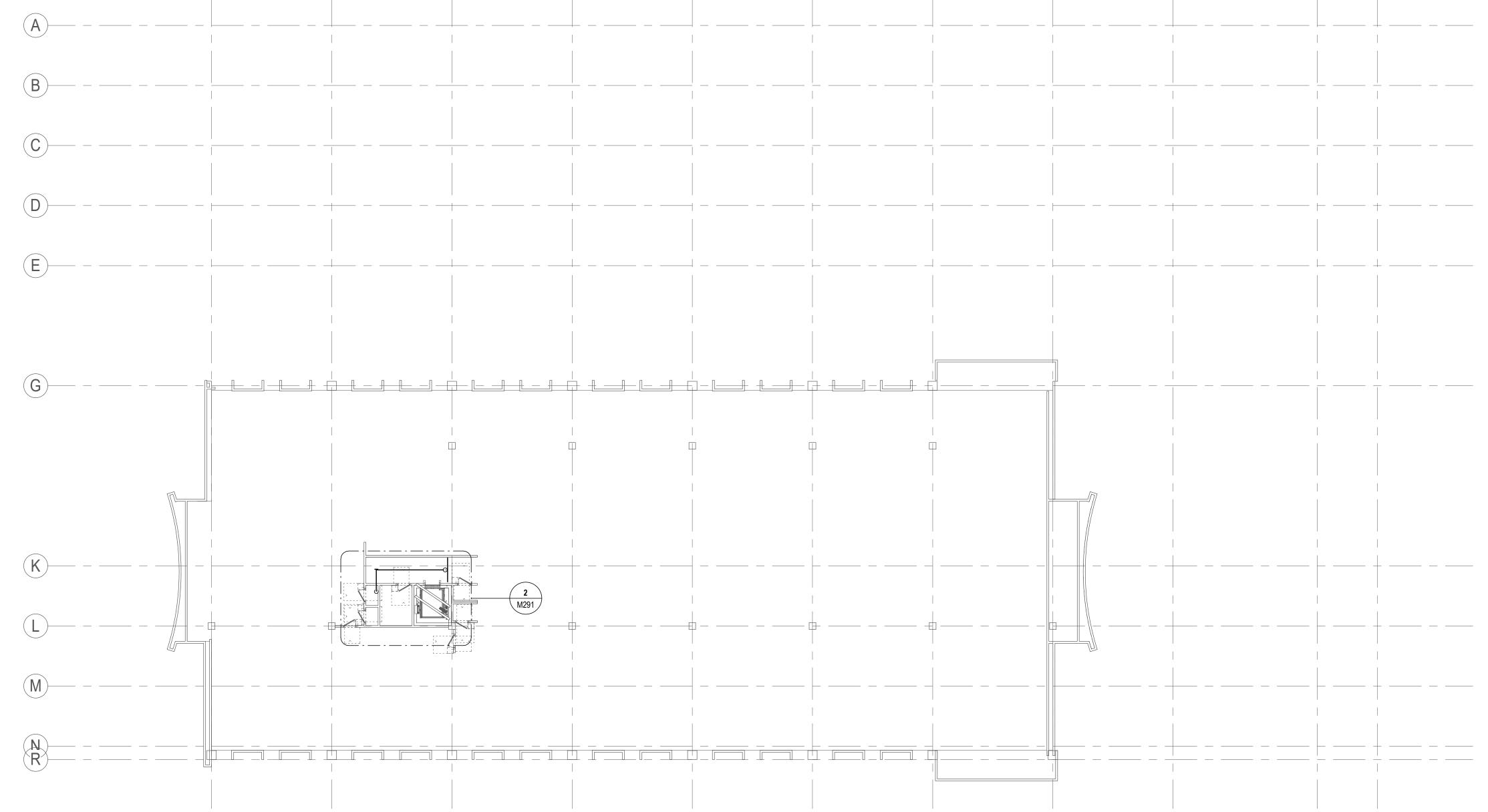
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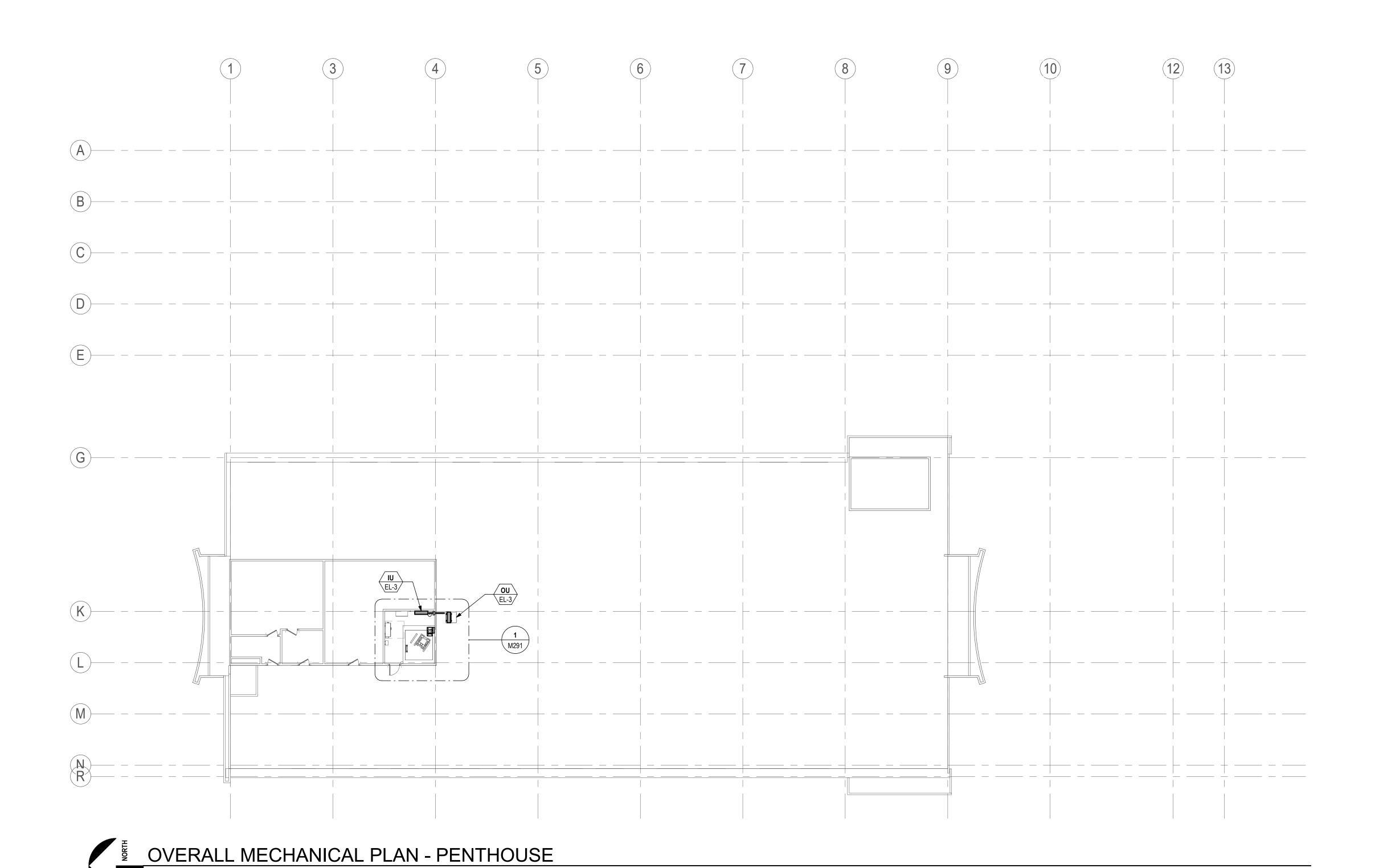
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OVERALL MECHANICAL PLAN -8TH FLOOR

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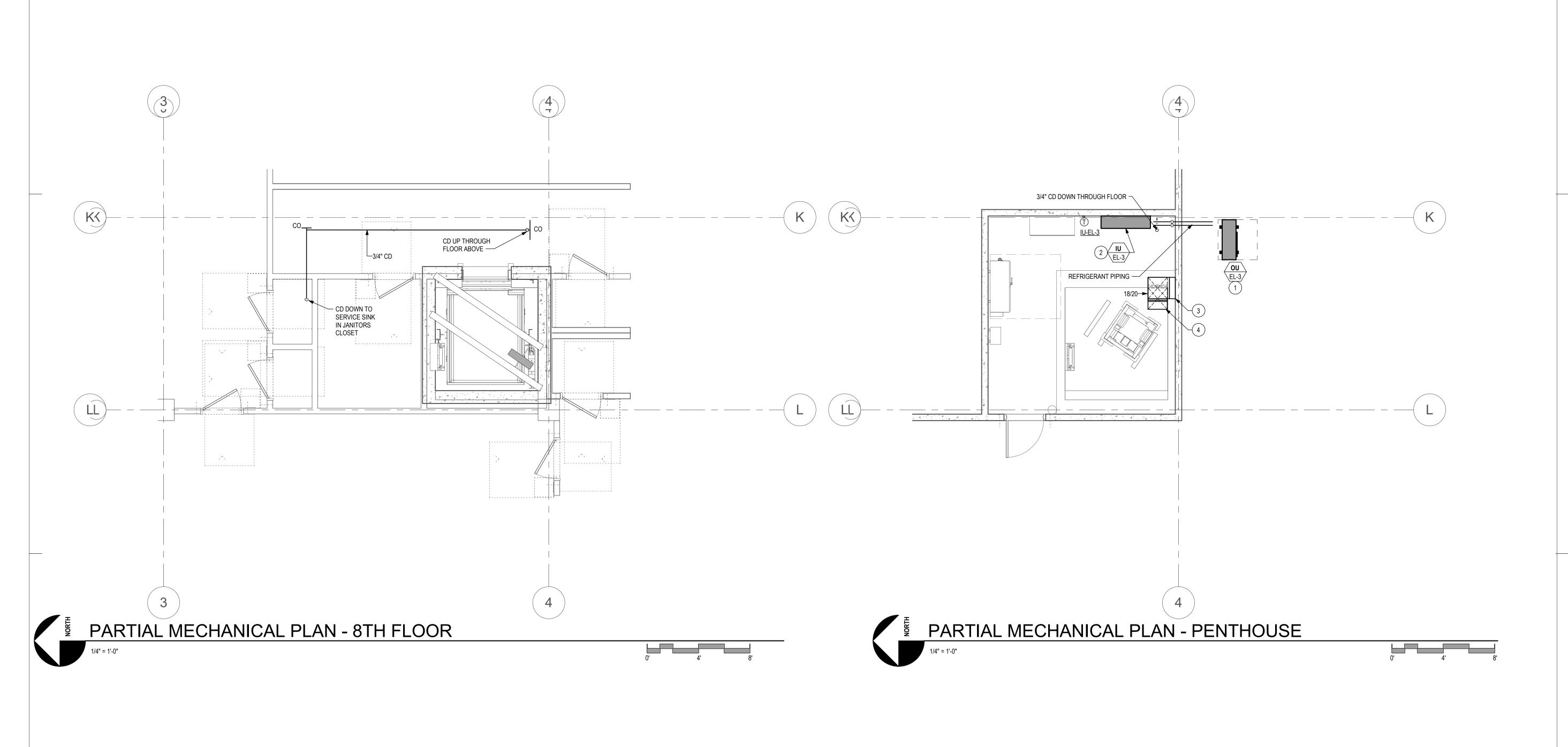
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OVERALL MECHANICAL PLAN -PENTHOUSE

SHEET NO.





- NEW OUTDOOR UNIT MOUNTED ON EXISTING EQUIPMENT CURB. SEE DETAIL 2 ON SHEET M7.1.
- NEW INDOOR UNIT MOUNTED ON WALL. SEE DETAIL 1 ON SHEET M7.1.
- CONNECT NEW DUCTWORK TO EXISTING LOUVER. PROVIDE BLANK-OFF PANEL FOR UNUSED AREA.
- CONNECT NEW DUCTWORK TO GRATING OVER ELEVATOR SHAFT.

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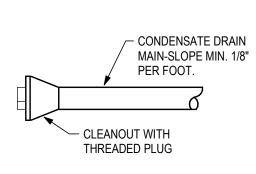
PARTIAL MECHANICAL PLAN - 8TH FLOOR AND PENTHOUSE

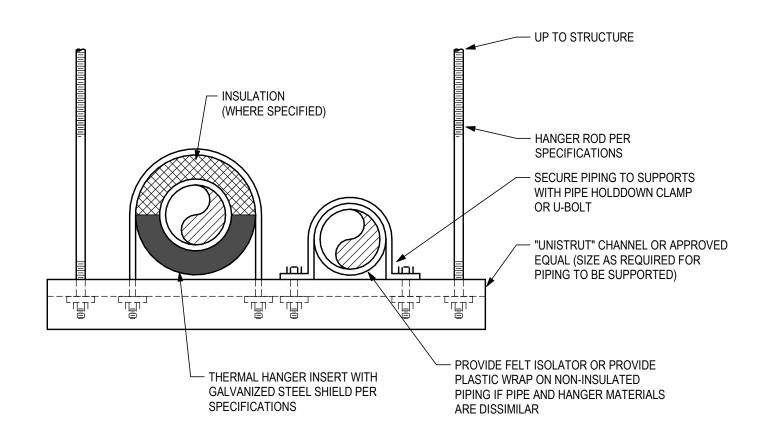
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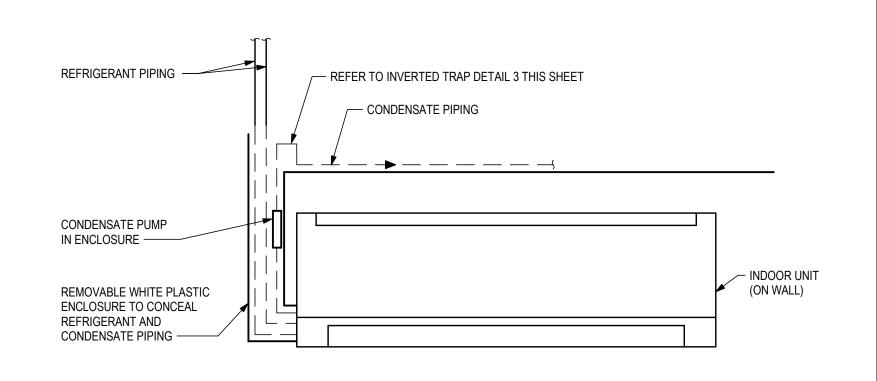
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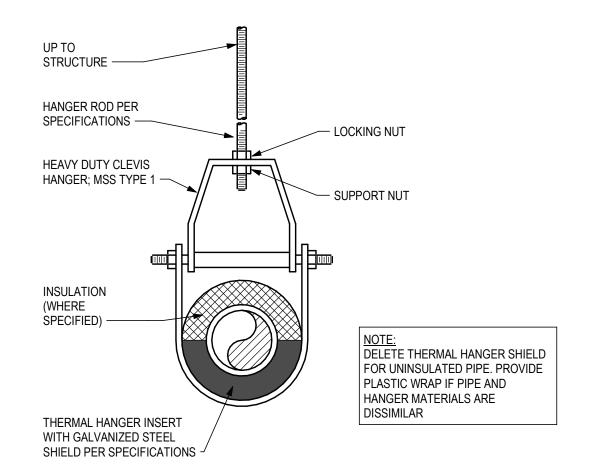


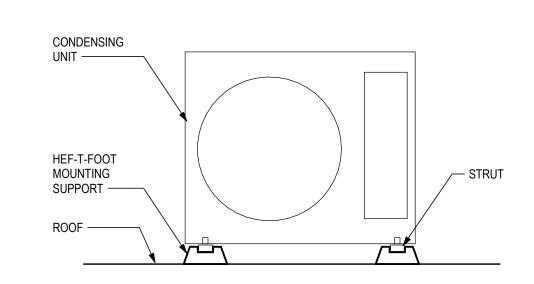


CONDENSATE CLEANOUT DETAIL

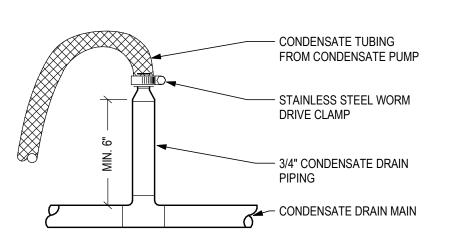
TRAPEZE HANGER DETAIL

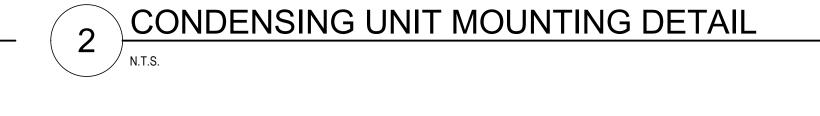
INDOOR UNIT DETAIL

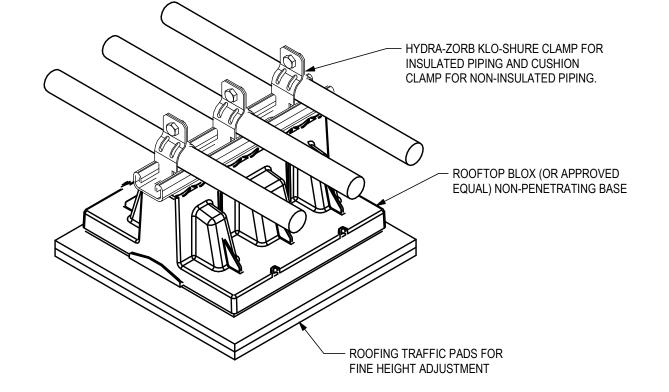




CLEVIS HANGER DETAIL







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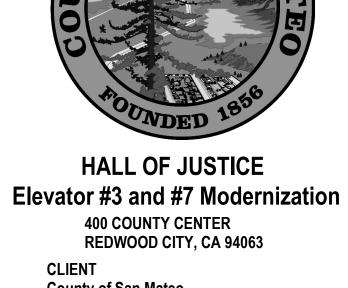
ROOF PIPE SUPPORT DETAIL N.T.S.

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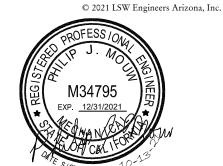
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MECHANICAL DETAILS

	MINI SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE																										
	INDOOR UNIT OUTDOOR UNIT																										
						MIN	N	MIN GRO	SS COOL	ING CAPAC	ITIES		ELE	ECTRICAL							Е	LECTRIC	٩L			ELEC PRIMARY	
				AIRFLOW	OSA	SEER	EAT	(°F)	AMB (°F)	TOTAL	SENS					WEIGHT			REFRIG	MAX I	-LA				WEIGHT	CONNECTION	
MA	RK TAG	MANUFACTURER	MODEL	(CFM)	(CFM)	(BTUH/W)	DB	WB	DB	(MBH)	(MBH)	FLA	MCA	MOCP	V/PH	(LBS)	MARK	MODEL	TYPE	CMPR OD	F TOTA	AL MCA	MOCP	V/PH	(LBS)	LOCATION	REMARKS
IL	EL-3	Mitsubishi Electric	PKA-A24KA7	800	N/A	21	80	67	95	24	24	0.36	1.0	15	208/1	50	OU-EL-3	PUY-A24NHA7-BS	R-410A	7 0.4	7.4	19	26	208/1	160	OUTDOOR UNIT	INDOOR UNIT POWERED AND CONTROLLED BY OUTDOOR UNIT. PROVIDE WITH WIRED THERMOSTAT, SEACOAST PROTECTION, BACNET INTERFACE
Il	EL-7	Mitsubishi Electric	PKA-A24KA7	800	N/A	21	80	67	95	24	24	0.36	1.0	15	208/1	50	OU-EL-7	PUY-A24NHA7-BS	R-410A	7 0.4	7.4	19	26	208/1	160	OUTDOOR UNIT	INDOOR UNIT POWERED AND CONTROLLED BY OUTDOOR UNIT. PROVIDE WITH WIRED THERMOSTAT, SEACOAST PROTECTION, BACNET INTERFACE



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MECHANICAL SCHEDULES

SHEET NO.

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LEGEND - DIAGRAMS				
SYMBOL	DESCRIPTION			
250AF 200AT 3P	MOLDED CASE CIRCUIT BREAKER - FRAME SIZE, TRIP RATING, AND POLES INDICATED. SUPPLEMENTAL INFORMATION MAY BE PROVIDED, E.G., STATUS (NO, NC), OPERATION (EO, MO), TRIP UNIT FUNCTIONALITY (LI, LSI, LIG, LSIG), ETC.			
250AF 200AT 3P LSI	PLUG-IN MOLDED CASE CIRCUIT BREAKER - FRAME SIZE, TRIP RATING, AND POLES INDICATED. SUPPLEMENTAL INFORMATION MAY BE PROVIDED, E.G., STATUS (NO, NC), OPERATION (EO, MO), TRIP UNIT FUNCTIONALITY (LI, LSI, LIG, LSIG), ETC.			
1600AF 1600AT 3P V LSIG	DRAW-OUT CIRCUIT BREAKER (ICCB OR LVPCB) - FRAME SIZE, TRIP RATING, AND POLES INDICATED. SUPPLEMENTAL INFORMATION MAY BE PROVIDED, E.G., STATUS (NO, NC), OPERATION (EO, MO), TRIP UNIT FUNCTIONALITY (LS, LSI, LSG, LSIG), ETC.			
1200AF 	MEDIUM-VOLTAGE, DRAW-OUT CIRCUIT BREAKER (ANSI DEVICE 52) - FRAME SIZE, TRIP SETTING, AND POLES INDICATED.			
100A 3P	SWITCH - AMPERE RATING AND POLES INDICATED. SUPPLEMENTAL INFORMATION MAY BE PROVIDED, E.G., STATUS (NO, NC), OPERATION (EO, MO), ETC.			
100A LPS-RK	FUSE - AMPERE RATING AND TYPE OF CLASS INDICATED.			
^ 	REMOVABLE HOUSING (DRAW-OUT CRADLE OR PULL-OUT DISCONNECTS).			
GF— - — , , , , , , , , , , , , , , , , ,	DISCRETE GROUND FAULT TRIP UNIT - INDICATES DEVICE TRIPPED.			
	METER: ROUND REPRESENTS AN ELECTRIC UTILITY COMPANY METER AND RECTANGULAR REPRESENTS OWNED METERS. CTS SHOWN WHERE DISCRETE.			
	ENGINE-GENERATOR: TYPE AND AND RATINGS INDICATED.			
⊥ SIZE 1	STARTER: NEMA SIZE INDICATED.			
✓ ✓	MOTOR LOAD: HORSE POWER INDICATED.			
ww m	TRANSFORMER: RATINGS AND PRIMARY/SECONDARY VOLTAGE INDICATED. DRY- TYPE, UNLESS NOTED OTHERWISE.			
Ţ	GROUNDING ELECTRODE SYSTEM CONNECTION - SIZE INDICATED.			
0	TRANSFER SWITCH: RATINGS AND POLES INDICATED. SUPPLEMENTAL INFORMATION MAY BE PROVIDED, E.G., CONTROLS TYPE (AT = AUTOMATIC TRANSFER, MT = MANUAL TRANSFER), SOURCES (N = NORMAL, E = EMERGENCY, SB = STANDBY, S1 = SOURCE 1, S2 = SOURCE 2), OPERATOR CONFIGURATION (DT = DELAYED TRANSITION, CT = CLOSED TRANSITION), AND SPECIAL FEATURES (BI = BYPASS ISOLATION).			
	CABLE/BUS CONNECTION (CLOSED) OR TERMINATION (OPEN).			
	CURRENT TRANSFORMER.			
	ZERO SEQUENCE CURRENT TRANSFORMER.			
35	POTENTIAL TRANSFORMER.			
# >	INTERLOCK: TYPE AND DEVICES INTERLOCKED INDICATED. KEY TYPE INTERLOCK, UNLESS NOTED OTHERWISE.			

	ABBREVIATION	IS - DI	IAGRAMS
AF AIC AIR AT ATS DP DS GFP ICCB LSIG/A	AMPERE FRAME AMPERES INTERRUPTING CAPACITY AMPERES INTERRUPTING RATING AMPHERE TRIP AUTOMATIC TRANSFER SWITCH DISTRIBUTION PANELBOARD DISTRIBUTION SECTION, SWITHCBOARD, OR SWITCH GEAR GROUND FAULT PROTECTION INSULATED CASE CIRCUIT BREAKER (UL 489) CIRCUIT BREAKER TRIP UNIT ADJUSTABLE CHARACTERISTICS - VARIOUS COMBINATIONS WHERE (L) = LONG TIME PICKUPAND DELAY, (S) = SHORT TIME PICKUP AND DELAY, (I) = INSTANTANEOUS PICKUP, (G) = GROUND FAULT PICKUP AND DELAY, AND (A) = GROUND FAULT ALARM PICKUP AND DELAY	LVPCB MCC MCCB P PH PNL SCA SCCR SES ST SWGR SWBD UPS WCR XFMR XFR	LOW-VOLTAGE POWER CIRCUIT BREAKER (UL 1066) MOTOR CONTROL CENTER MOLDED CASE CIRCUIT BREAKER (UL 489) POLE PHASE PANELBOARD AVAILABLE SHORT-CIRCUIT CURRENT (IN AMPHERES) SHORT-CIRCUIT CURRENT RATING SERVICE ENTRANCE SWITCHBOARD SHUNT-TRIP SWITCHGEAR SWITCHBOARD UNINTERRUPTIBLE POWER SUPPLY WITHSTAND AND CLOSE-ON RATING TRANSFORMER TRANSFORMER

LEGEND - FIRE ALARM				
SYMBOL	DESCRIPTION			
<u>\$</u>	SPOT TYPE SMOKE DETECTOR (PHOTOELECTRIC TYPE, U.N.O.) - CEILING MOUNTED. OPTIONAL SUBSCRIPTS: (A) = WITH AUXILIARY CONTACTS FOR ELEVATOR INTERLOCK, (EL) = PROGRAMMED FOR ELEVATOR RECALL, (R) = WITH RELAY.			
H	HEAT DETECTOR (COMBINATION RATE-OF-RISE, 135° FIXED TEMPERATURE, UNO) - CEILING MOUNTED. OPTIONAL SUBSCRIPTS: (135°) = 135°F FIXED TEMPERATURE ACTIVATION ONLY, (190°) = 190°F FIXED TEMPERATURE ACTIVATION ONLY.			
© 15 15 S 15	AUDIO/VISUAL NOTIFICATION APPLIANCE - CEILING MOUNTED. (C) = CHIME, (H) = HORN, AND (S) = SPEAKER. STROBE CANDELA INDICATED.			

ABBREVIATIONS - ELECTRICAL DISTRIBUTION PANELBOARD NEUTRAL DISTRIBUTION SECTION NIGHT LIGHT DISHWASHER OVERHEAD ELECTRICAL OHT EQUIPMENT BONDING JUMPER OVERHEAD TELEPHONE EDF ELECTRIC DRINKING FOUNTAIN PHOTOCELL EXHAUST FAN POWER FACTOR E, EM **EMERGENCY** PANELBOARD GARBAGE DISPOSAL POWER POLE RANGE HOOD (POWER CONNECTION) GFI, GFCI GROUND FAULT CIRCUIT INTERRUPTER DEVICE SBJ SYSTEM BONDING JUMPER SPD HORSEPOWER SURGE PROTECTION DEVICE ISOLATED GROUND TELEPHONE POLE ISOLATED TAMPER RESISTENT KVA KILOVOLT-AMPERES TIME SWITCH KW KILOWATTS UGC UNDERGROUND COMMUNICATIONS LIGHTING POLE ASSEMBLY UGE UNDERGROUND ELECTRICAL UGEP UNDERGROUND ELECTRICAL, PRIMARY MBJ MAIN BONDING JUMPER MCB MAIN CIRCUIT BREAKER UGES UNDERGROUND ELECTRICAL, SECONDARY MCC MOTOR CONTROL CENTER UGT UNDERGROUND TELEPHONE

VFD

DESCRIPTION

DIRECTIONALITY INDICATED (WHERE APPLICABLE). REFER TO LIGHTING FIXTURE

LEGEND - ELECTRICAL

LIGHTING FIXTURE - SHAPE, SIZE, MOUNTING, ETC. VARY. FIXTURE TYPE INDICATED.

SCHEDULE FOR DETAILS.

VARIABLE FREQUENCY DRIVE

MGAP

MEDICAL GAS ALARM PANEL

MAIN LUGS ONLY

SYMBOL

Y	CONEDUCE FOR DETAILO.			
⊗ ⊗ ⊗ ⊗	EXIT SIGNAGE. FIXTURE TYPE INDICATED. FACE(S), WALL OR CEILING MOUNTING, AND DIRECTIONALITY (WHERE APPLICABLE) INDICATED.			
ER	EMERGENCY LIGHTING CONTROL RELAY ASSEMBLY.			
\$. \$ ₃ \$ _D \$ _L \$ _T \$ ₂ \$ ₄ \$ _K \$ _P \$ _T \$	WALL MOUNTED SWITCH. OPTIONAL SUBSCRIPTS: (2) = TWO-POLE, (3) = THREE-WAY, (4) = FOUR-WAY, (D) = DIMMER, (K) = KEY OPERATED, (L) = LOW VOLTAGE, (P) = PILOT LIGHT, (T) = HORSEPOWER RATED SWITCH WITH THERMAL OVERLOADS, (TS) = TIMER SWITCH.			
a a a	LOWER CASE ALPHA-CHARACTER AT A LUMINAIRE, DEVICE, SWITCH, ETC. INDICATES SWITCHING ASSOCIATION.			
\$0	SWITCH WITH OCCUPANCY/VACANCY SENSOR, 180° COVERAGE, DAYLIGHT COMPENSATION, WALL MOUNTED.			
\$ _{po}	SWITCH WITH DIMMER AND OCCUPANCY/VACANCY SENSOR, 180° COVERAGE, DAYLIGHT COMPENSATION, AND WALL MOUNTED.			
OS	OCCUPANCY/VACANCY SENSOR - 360° COVERAGE, DAYLIGHT COMPENSATION, AND CEILING MOUNTED			
OSH	OCCUPANCY/VACANCY SENSOR - 180° COVERAGE, DAYLIGHT COMPENSATION, AND WAL MOUNTED.			
os ⁷	OCCUPANCY/VACANCY SENSOR - 90° COVERAGE, DAYLIGHT COMPENSATION, AND CORNER MOUNTED.			
O DS	DAYLIGHT COMPENSATION PHOTO-SENSOR.			
0	PHOTOCELL, PHOTO-SENSOR.			
	CONDUIT, CONCEALED IN CEILING OR WALL CONSTRUCTION.			
<panel>##</panel>	HOMERUN TO PANELBOARD, AS INDICATED.			
٩	FLEXIBLE METAL CONDUIT CONNECTION TO EQUIPMENT.			
	SIMPLEX RECEPTACLE. OPTIONAL INSCRIPTIONS: (G) = WITH GROUND FAULT INTERRUPTER, (T) = TAMPER RESISTANT, (W) = WEATHER PROOF AND WITH GROUND FAULT INTERRUPTER.			
⊕ ∅ ∅ ⊕ ∅ ∅	DUPLEX RECEPTACLE. OPTIONAL INSCRIPTIONS: (G) = WITH GROUND FAULT INTERRUPTER, (I) = WITH ISOLATED GROUND, (S) = SPLIT WIRED, (T) = TAMPER RESISTANT, (W) = WEATHER PROOF AND WITH GROUND FAULT INTERRUPTER, (U) = WITH TWO USB PLUG POINTS			
₩ \$ \$ \$	QUADRUPLEX RECEPTACLE. OPTIONAL INSCRIPTIONS: (G) = WITH GROUND FAULT INTERRUPTER, (I) = WITH ISOLATED GROUND, (T) = TAMPER RESISTANT, (W) = WEATHER PROOF AND WITH GROUND FAULT INTERRUPTER, (U) = WITH TWO USB PLUG POINTS			
⊘ _V ⊘ _{L6-30R}	SPECIAL PURPOSE OUTLET. DEVICE TYPE INDICATED OR (V) = VERIFY CONFIGURATION.			
Ø Ø ∰ Ø	SLASH INDICATES DEVICE MOUNTED ABOVE COUNTER. CONFIRM HEIGHT, LOCATION, A COLOR WITH ARCHITECT.			
	FLOOR MOUNTED DEVICE.			
	MULTI-OUTLET ASSEMBLY, OUTLET SPACING INDICATED.			
+72" +V	MOUNTING HEIGHT TO THE CENTER OF DEVICE RELATIVE TO THE ASSOCIATED FINISHED FLOOR OR GRADE LEVEL. (+V) = VERIFY HEIGHT PRIOR TO ROUGH-IN (E.G., WITH OTHER TRADES, ARCHITECTURAL ELEVATIONS, ETC.). WHERE NO HEIGHT IS INDICATED THE FOLLOWING APPLIES: RECEPTACLES AND TELECOMMUNICATIONS DEVICES AT +18". SWITCHES AT +46".			
• ••	PUSHBUTTON			
С	CONTACTOR			
⊘	MOTOR WITH SIZE AND RATINGS INDICATED.			
□	ELECTRIC HEATER WITH SIZE IN KW INDICATED.			
40	HEAVY DUTY, FUSED (UNO) DISCONNECT SWITCH WITH SIZE AND RATINGS INDICATED (REFER TO EQUIPMENT SCHEDULE, IF APPLICABLE). OPTIONAL SUBSCRIPTS: (NF) = NON-FUSED.			
L	HEAVY DUTY, COMBINATION MAGNETIC MOTOR STARTER AND FUSED (UNO) DISCONNECT SWITCH WITH SIZE AND RATINGS INDICATED (REFER TO EQUIPMENT SCHEDULE, IF APPLICABLE). OPTIONAL SUBSCRIPTS: (NF) = NON-FUSED.			
	MAGNETIC MOTOR STARTER (CONTROLLER) WITH SIZE AND RATINGS INDICATED (REFEF TO EQUIPMENT SCHEDULE, IF APPLICABLE).			
	1			

MAGNETIC MOTOR STARTER (CONTROLLER) FURNISHED WITH EQUIPMENT.

CATALOG NUMBER

LCL-4-40-ML-ED-U-ELL14-LCLWG4

CRV48-LED-8-40K-050L-UNV-B39-P83

4' LENSED LED

WIRE GUARD

4' LED VAPOR PROOF, IP66 RATED, SURFACE MOUNT

MARK MANUFACTURER

COLUMBIA

CERTOLUX

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE CEC AS AMENDED BY
- PRIOR TO SUBMITTING PROPOSAL, THE CONTRACTOR SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH THE CONTRACTOR WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON THEIR PART. ALL MATERIAL AND EQUIPMENT NOTED OR SPECIFIED TO BE REMOVED WHICH IS NOT SCHEDULED TO BE RE-USED OR RELOCATED SHALL BE CAREFULLY REMOVED AND DELIVERED TO THE OWNER WHERE DIRECTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY, COORDINATE AND CONFIRM WITH THE FIRE PROTECTION, FOOD SERVICE, MECHANICAL, PLUMBING, AND SPECIALTY EQUIPMENT CONTRACTOR(S) ALL THE FOLLOWING: EXACT FEED LOCATIONS AND NUMBER OF CONNECTIONS TO ALL A/C UNITS, FAN COILS, CHILLERS, COOLING TOWERS, SYSTEM PUMPS, EQUIPMENT, EVAPORATIVE COOLERS, MAKE-UP AIR UNITS,
- CONTROL SYSTEMS, ETC. ELECTRICAL CHARACTERISTICS (E.G., KW, HP, AMPS, VOLTAGE, PHASE, ETC.). CONFIRM WITH APPROVED FIRE PROTECTION, FOOD SERVICE, MECHANICAL, PLUMBING, AND SPECIALTY EQUIPMENT
- SUBMITTAL DRAWINGS. SIZE ALL FUSES PROTECTING EQUIPMENT PER THE EQUIPMENT MANUFACTURERS NAMEPLATE DATA
- AND COORDINATED WITH THE CEC. EXACT LOCATION OF ALL CONTROL PANELS, CONTROL DEVICES, THERMOSTATS, DAMPER MOTORS,
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LAYOUT OF LIGHTING FIXTURES AND
- CEILING TYPES. REFER TO ARCHITECTURAL PLANS TO CONFIRM ALL FIRE-RATED CEILINGS AND WALLS. ALL PENETRATIONS OF FIRE-RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS' LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS." THE CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL. THE SUBMITTAL INFORMATION SHALL INDICATE COMPLETE CONFORMANCE TO THE APPLICABLE UL LISTING AND SHALL
- ALL RECESSED LIGHTING FIXTURES INSTALLED IN FIRE-RATED CEILINGS AND WITHIN FIRE-STOP

BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED. THESE FINAL AND APPROVED

DRAWINGS SHALL BE READILY AVAILABLE TO THE LOCAL INSPECTORS AT ALL TIMES AT THE PROJECT

- BRANCH CIRCUIT CONDUCTOR COUNT IS NOT SPECIFICALLY SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE CONDUCTORS AS FOLLOWS AND ADJUST THE CONDUIT SIZE TO CONFORM TO CEC ANNEX C: TABLES BASED ON SPECIFIC FIELD CONDITIONS.
- (1) PHASE CONDUCTOR FOR EACH CIRCUIT POLE CONTAINED WITHIN THE CONDUIT.
- (1) NEUTRAL CONDUCTOR FOR EACH INDIVIDUAL CIRCUIT OPERATING AT 120V OR 277V. (1) EQUIPMENT GROUND CONDUCTOR SIZED BASED ON 250.122.
- (1) ISOLATED GROUND CONDUCTOR MATCHING THE EQUIPMENT GROUND WHERE A CIRCUIT SERVES AN ISOLATED GROUND DEVICE.
- (1) SWITCH LEG CONDUCTOR FOR EACH SWITCH LEG REQUIRED.

ENCLOSURES SHALL HAVE FIRE RATED LABELS.

TERMINATION POINTS, ETC.

- (2) SWITCH LEG TRAVELERS FOR EACH THREE-WAY SWITCH CONTROL REQUIRED. (4) SWITCH LEG TRAVELERS FOR EACH FOUR-WAY SWITCH CONTROL REQUIRED.
- (1) HOT CONDUCTOR FOR EACH CONTINUOUS LIGHTING SYSTEM LOAD REQUIREMENT: EMERGENCY BATTERY PACK (BPB), NIGHT LIGHT, ETC.
- CONDUCTOR AMPACITY ADJUSTMENTS SHALL BE APPLIED AS DESCRIBED BY CEC CHAPTER 3 FOR EACH SPECIFIC FIELD CONDITION.
- GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND
- DO NOT INSTALL ANY EQUIPMENT WHICH WOULD LEAVE INADEQUATE OPERATION OR SERVICING SPACE FOR ANY ITEM FOR ENTIRE PROJECT. DRAWINGS ARE NOT INTENDED TO SHOW IN DETAIL ALL FEATURES OF WORK. CHECK LOCATION OF ELECTRICAL WORK TO DETERMINE IN ADVANCE THAT IT CLEARS ALL OBSTRUCTIONS.
- ALL WIRING SHALL BE COPPER AND INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED. MINIMUM CONDUCTOR SIZE SHALL BE #12AWG AND CONDUIT 1/2" TRADE SIZE. INSULATION SHALL BE TYPE "THHN/THWN". EXCEPT CONDUCTORS USED FOR AIR CONDITIONING AND CONDUCTORS #2AWG AND LARGER SHALL BE TYPE XHHW-2.

- CONDUITS SHALL BE SUPPORTED BY FRAMING CHANNEL (UNISTRUT, B-LINE, OR AS ACCEPTED). INTERVALS OF SUPPORT SHALL COMPLY WITH CEC SECTION APPROPRIATE FOR CONDUIT MATERIAL USED.
- ALL UNDERGROUND COMMUNICATION AND AUDIO/VISUAL CONDUITS THAT STUB UP FROM FLOOR AT MOUNTING BOARDS SHALL BE WITH FLUSH COUPLING; EXTEND CONDUITS 8" ABOVE FINISHED FLOOR, AND LOCATE 12" FROM
- CONNECTIONS TO VIBRATING MACHINERY SHALL BE MADE WITH LIQUID-TIGHT STEEL FLEXIBLE CONDUIT. LENGTHS SHALL NOT EXCEED 3 FT.
- PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL CONDUIT RUNS EXCEPT RGS AND IMC. SIZE PER CEC 250.122.
- PROVIDE IDENTIFICATION PER THE IDENTIFICATION OF ELECTRICAL SYSTEMS SPECIFICATION SECTION. CLEARLY INDICATE USE AND AREA SERVED FOR ALL PANELBOARD OVERCURRENT DEVICES PER CEC 408.4. CONTRACTOR SHALL TRACE OUT ALL UNIDENTIFIED BRANCH CIRCUITS AND FEEDERS TO DETERMINE THE AREA SERVED FOR ALL EXISTING TO REMAIN LOADS.
- ALL SELF-CONTAINED EMERGENCY BATTERY PACK EXITS AND LIGHTING FIXTURES SHALL BE CIRCUITED TO THE SAME BRANCH LIGHTING CIRCUIT SERVING NORMAL LIGHTING IN THE SAME AREA. THE CIRCUIT SHALL BE UN-SWITCHED SO THAT THE BATTERY CHARGER IS CONTINUOUSLY BEING ENERGIZED DURING NORMAL POWER CONDITIONS. IF THE LIGHTING FIXTURE IS SHOWN OR INDICATED AS BEING SWITCHED, ONLY THE LAMPS SHALL BE CONDITIONS. IF THE LIGHTING FIXTURE IS SHOWN OR INDICATED AS BEING SWITCHED, ONLY THE LAMPS SHALL BE CONTROLLED BY THE SWITCH CONDUCTOR(S) WITH THE BATTERY CHARGER REMAINING ENERGIZED.
- COORDINATE LIGHTING FIXTURE PLACEMENT WITH MECHANICAL, FIRE PROTECTION, AND FIRE ALARM DRAWINGS AND DO NOT ATTACH OR SUPPORT FROM MECHANICAL DUCTWORK IN ANY WAY.
- PROVIDE RAISED CONCRETE HOUSEKEEPING CONCRETE PAD 4" ABOVE FINISHED FLOOR FOR ALL NEW FREESTANDING ELECTRICAL SWITCHBOARD EQUIPMENT, MOTOR CONTROL CENTERS, DRY TYPE TRANSFORMERS, ETC. CONFIRM PAD SIZE WITH FINAL APPROVED SHOP DRAWINGS OF EQUIPMENT. EXCEPTION: SERVICE ENTRANCE SWITCHBOARDS WITH UTILITY COMPANY METERING, RAISED PAD SHALL CONFORM TO SERVING UTILITY COMPANY REQUIREMENTS AND IN SOME CASES CAN NOT BE RAISED.
- PROVIDE SEPARATION OF EMERGENCY SYSTEM FEEDERS AND BRANCH CIRCUITS FROM ALL OTHER WIRING OR EQUIPMENT PER CEC 700.
- 19. ALL LIGHTING SYSTEMS SHALL BE CONTROLLED VIA AUTOMATIC CONTROL DEVICES TO COMPLY WITH APPLICABLE ENERGY CONSERVATION CODES.
- UNLESS INDICATED IN SOME MANNER THAT ELECTRICAL EQUIPMENT IS EXISTING (EX), ALL OTHER EQUIPMENT
- PROVIDE IDENTIFICATION NAMEPLATES AT ALL SES, DISTRIBUTION SWITCHBOARDS, DISTRIBUTION PANEL BOARDS, ETC. FOR THE LOCK-OUT/TAG-OUT PROCEDURE PER AHJ CRITERIA.
- PROTECT ADJACENT AREAS FROM DAMAGE DURING THE PROGRESSION OF WORK. PROVIDE TEMPORARY SAFETY BARRIERS AS REQUIRED TO ENSURE SAFETY AND CONTINUED BUILDING OCCUPANCY. DAMAGE TO EXISTING AREAS SHALL BE RESTORED TO EXISTING UNDISTURBED CONDITION AT CONTRACTORS EXPENSE.
- 23. PROVIDE REQUIRED DUST AND NOISE CONTROL MEASURES TO ENSURE CONTINUED OPERATION OF ADJOINING BUILDING AREAS OR DEPARTMENTS WERE APPLICABLE.

LEGEND - GENERAL DESCRIPTION SYMBOL JUNCTION BOX IN AN ACCESSIBLE LOCATION. FLUSH FLOOR MOUNTED JUNCTION BOX. CONDUIT EXPANSION JOINT. CONDUIT SEAL-OFF. (X) = EXPLOSION PROOF. ——O UP CHANGE IN CONDUIT ELEVATION. ----- DN CAPPED CONDUIT STUB-OUT. PROVIDE BRASS CAP AND PERMANENTLY MARK _____ LOCATION WHERE INSTALLED BELOW GRADE. MECHANICAL EQUIPMENT DESIGNATION. OWNER FURNISHED EQUIPMENT DESIGNATIONS, UNLESS NOTED OTHERWISE - REFERENCE SCHEDULE. NEW WORK, EQUIPMENT, DEVICES, WIRING, ETC. IS DEPICTED SOLID IN VARIOUS LINETYPES. EXISTING EQUIPMENT, DEVICES, WIRING, ETC. (AS WELL AS BUILDING ELEMENTS ASSOCIATED WITH OTHER DISCIPLINES) IS DEPICTED SCREENED IN VARIOUS LINETYPES. EQUIPMENT, DEVICES, WIRING, ETC. TO BE REMOVED (DEMOLITION) IS DEPICTED SOLID _____ IN A HIDDEN LINETYPE. FUTURE EQUIPMENT, DEVICES, WIRING, ETC. IS DEPICTED SCREENED IN A -----HIDDEN LINETYPE.

LED, 5149 LUMENS, 4000K 120 V 41 W

ABBREVIATIONS - GENERAL EXISTING, RELOCATE, NEW LOCATION ABOVE FINISHED FLOOR (TO CENTER EXRP EXISTING, REMOVE AND REPLACE EXRR LINE OF ITEM/DEVICE/EQUIPMENT) EXISTING, REMOVE AND RELOCATE AS ABOVE FINISHED GRADE (TO CENTER INDICATED LINE OF ITEM/DEVICE/EQUIPMENT) GND, GRD GROUND AUTHORITY HAVING JURISDICTION JUNCTION BOX NORMALLY CLOSED NORMALLY OPEN CONDUIT ONLY NOT IN CONTRACT COMBINATION SMOKE FIRE DAMPER CSFD, CFSD UNO UNLESS NOTED OTHERWISE EMPTY CONDUIT, ELECTRICAL **VOLT-AMPHERES** VANDAL RESISTANT EQUIPMENT EXPLOSION PROOF WEATHERPROOF EXISTING, REMAIN EXISTING, REMOVE EXISTING, REMOVE AND PROVIDE BLANK EXRC



HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER

REDWOOD CITY, CA 94063

County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER **REDWOOD CITY, CA 94063**



TRANSPORTATION Elevator and Escalator Consulting EXCELLENCE a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900

Phoenix, AZ 85012-1957 LSW Engineers

	2333 West Northern Avenue Phoenix, Arizona 85021 www.lswphx.com	Telephone Facsimile Project No.	602.249.1320 602.336.3276 2021-041.000	
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ELECTRICAL SYMBOLS

SHEET NO.

E001

ISSUE DATE 100% SET 10/14/21

SHEET TITLE

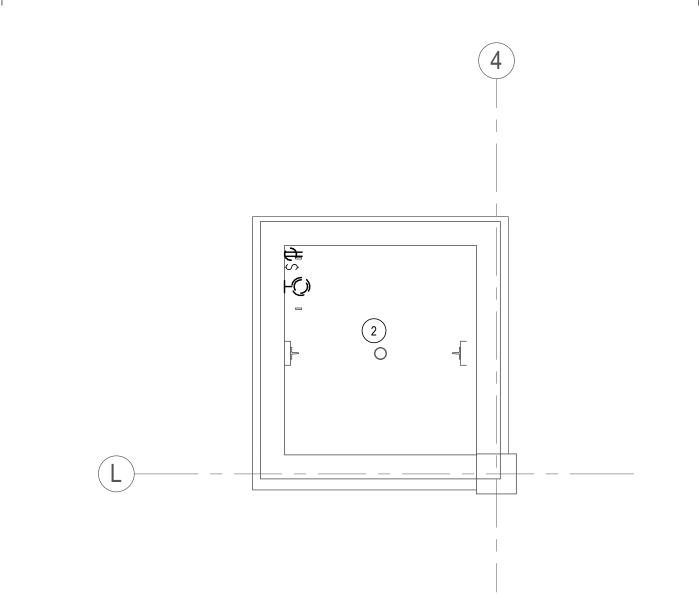
NF) =						
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LIGHTI	NG FIXTU	IRE S	SCHE	DULE		
DESCRIPTION	LAMPS	VOLTAGE	WATTAGE	MOUNTING	REMARKS This review does not authorize to	APPLIANCE RIOR APPROVED EQUAL
					of State or County building la	aws.
STRIP, STANDARD 0-10V DIMMING, SURFACE MOUNTED WITH	LED, 5329 LUMENS, 4000K	120 V	42 W	SURFACE	WITH EMERGENCY BATTERY PACK	JOB COPY

SURFACE WALL WITH EMERGENCY BATTERY PACK

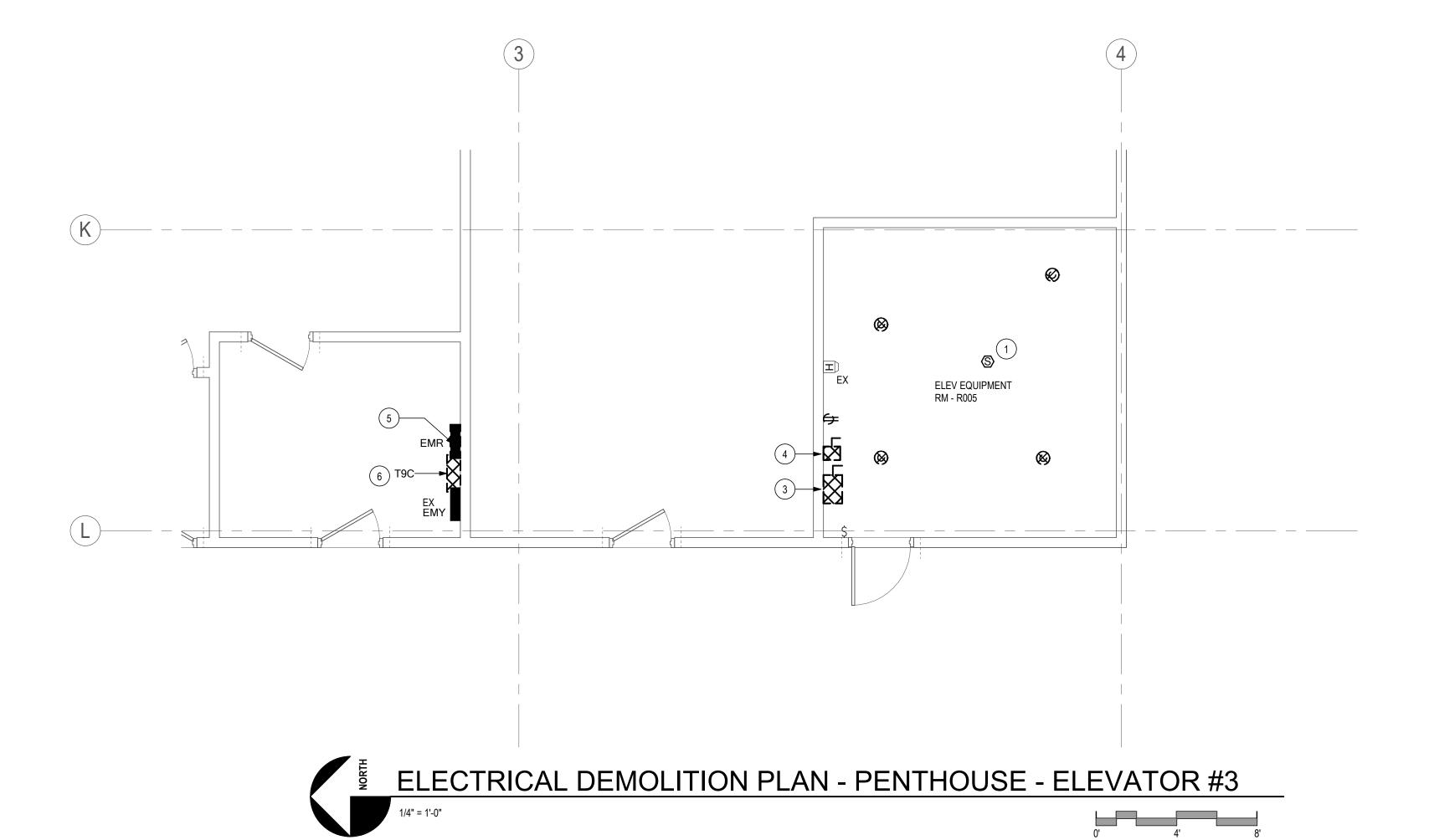
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Jun 03 2022

SITE AT ALL TIMES



ELECTRICAL DEMOLITION PLAN - PIT LEVEL - ELEVATOR #3



REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

Jun 03 2022

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- 1. REPLACE EXISTING RECEPTACLE, FIRE ALARM INITIATION DEVICES, SWITCH AND LIGHTING FIXTURES IN ELEVATOR MACHINE ROOM AS SHOWN ON NEW WORK PLANS. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST SOURCE.
- 2. REPLACE EXISTING RECEPTACLE, SWITCH AND LIGHTING FIXTURE IN ELEVATOR PIT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUCTORS BACK TO NEAREST SOURCE.
- 3. REPLACE EXISTING ELEVATOR DISCONNECT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
- 4. DISCONNECT EXISTING CAB LIGHTING CIRCUIT. REPLACE EXISTING ELEVATOR CAB LIGHTING DISCONNECT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST SOURCE.
- 5. REPLACE EXISTING PANEL AS SHOWN ON NEW WORK PLANS.
- 6. REPLACE EXISTING TRANSFORMER AS SHOWN ON NEW WORK PLANS.

SHEET NOTES

- A. ALL EQUIPMENT, DEVICES AND FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE REMOVED UNLESS NOTED OTHERWISE.
- B. ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.



HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER REDWOOD CITY, CA 94063

CLIENT **County of San Mateo**

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER **REDWOOD CITY, CA 94063**



TRANSPORTATION Elevator and Escalator Consulting EXCELLENCE a division of Gannett Fleming, Inc.

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LSW Engineers
ARIZONA, INCORPORATED 2333 West Northern Avenue Phoenix, Arizona 85021 Facsimile 602.249.1320 Facsimile 602.336.3276 Project No. 2021-041.000 © 2021 LSW Engineers Arizona, Inc.

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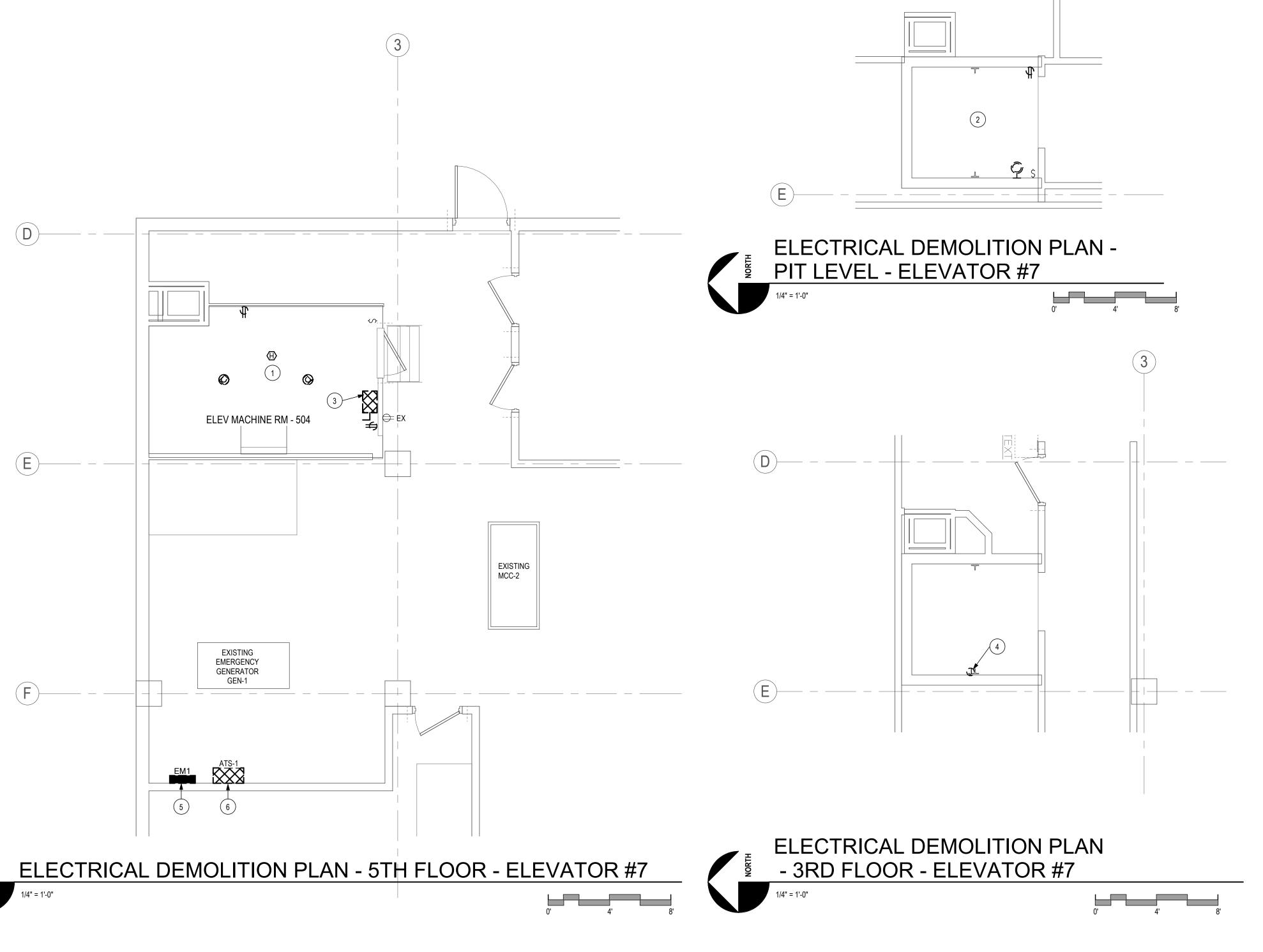
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ELECTRICAL DEMOLITION PLANS -ELEVATOR #3

SHEET NO.

E101



KEYED NOTES (#)

- REPLACE EXISTING RECEPTACLES, FIRE ALARM DEVICES, SWITCH AND LIGHT FIXTURES IN ELEVATOR MACHINE ROOM AS SHOWN ON NEW WORK PLANS. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST SOURCE
- 2. REPLACE EXISTING RECEPTACLE, SWITCH AND LIGHT FIXTURE IN ELEVATOR PIT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUCTORS BACK TO NEAREST SOURCE.
- 3. REPLACE EXISTING ELEVATOR DISCONNECT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUCTORS BACK TO
- 4. DISCONNECT EXISTING CAB LIGHTING CIRCUIT. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST SOURCE.
- 5. REPLACE EXISTING PANEL AS SOWN ON NEW WORK PLANS.
- 6. REPLACE EXISTING ATS AS SHOWN ON NEW WORK PLANS.

SHEET NOTES

- A. ALL EQUIPMENT, DEVICES AND FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE REMOVED UNLESS NOTED OTHERWISE.
- B. ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.



HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER REDWOOD CITY, CA 94063

County of San Mateo

PROJECT MANAGER

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100% SET 10/14/21 SHEET TITLE

> **ELECTRICAL DEMOLITION PLANS -**ELEVATOR #7

SHEET NO.

E102

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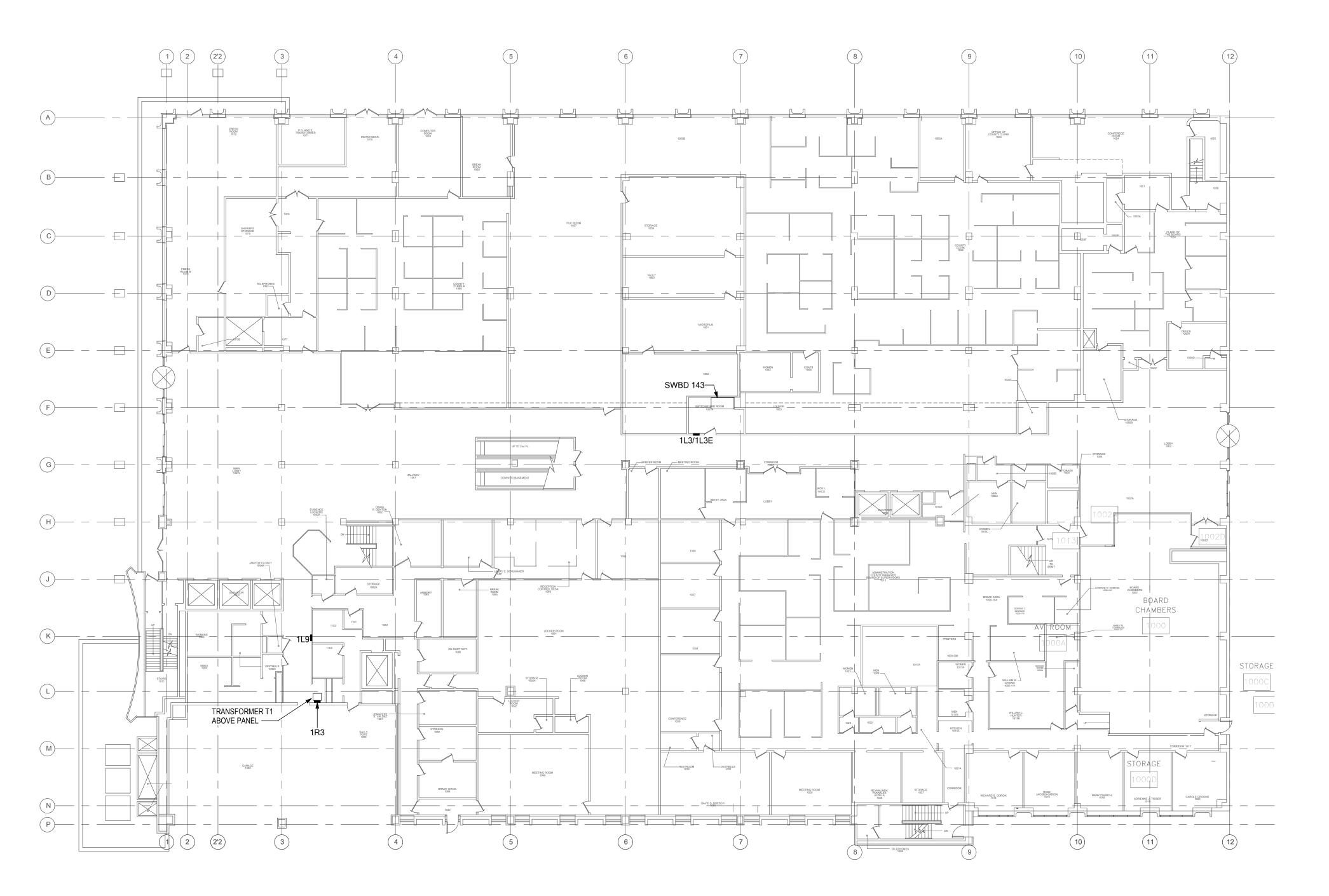
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SHEET NOTES

A. ALL EQUIPMENT SHOWN SHALL BE EXISTING TO REMAIN AS IS.





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of State or County building laws.

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Elevator #3 and #7 Modernization
400 COUNTY CENTER
REDWOOD CITY, CA 94063

CLIENT County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

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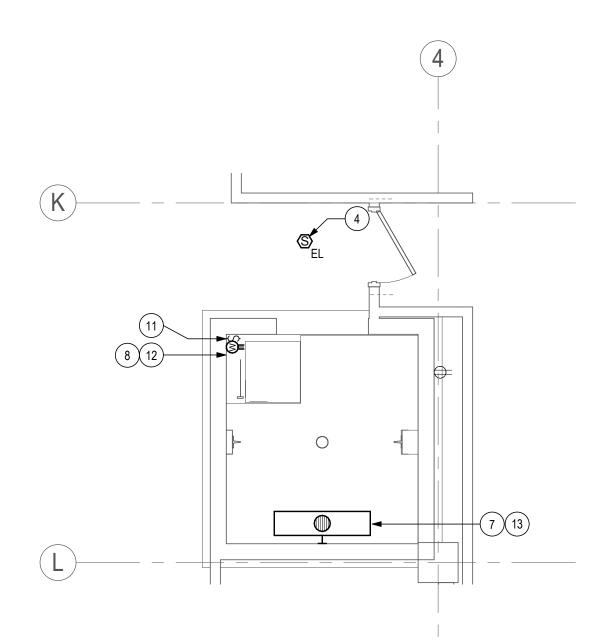
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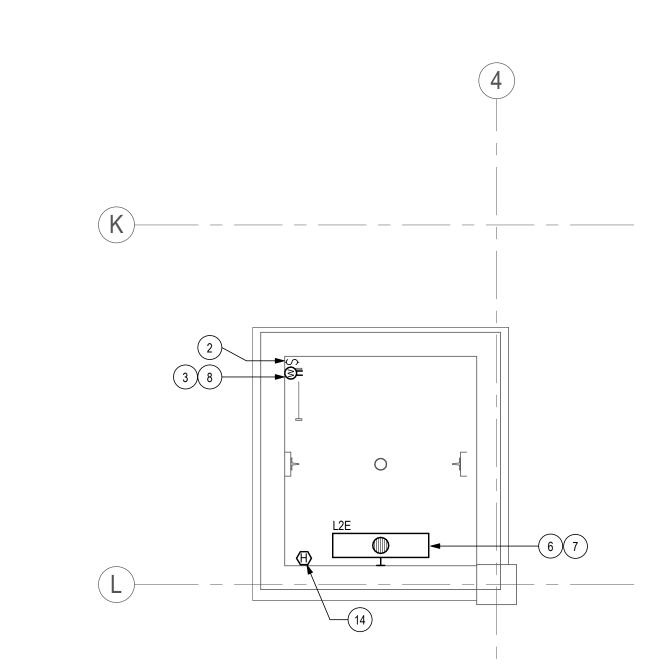
ELECTRICAL OVERALL PLAN - 1ST FLOOR

SHEET NO.

E201











- 1. MOUNT LIGHTING FIXTURE AT 9'-0" AFF TO BOTTOM OF FIXTURE FROM PIT LEVEL
- 2. MOUNT LIGHTING SWITCH AT 48" AFF FROM PIT LEVEL.
- 3. MOUNT RECEPTACLE +54" AFF FROM PIT LEVEL.
- 4. SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL. PROVIDE AT EACH LEVEL (BASEMENT THROUGH EIGHTH
- 5. SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL. PROVIDED AT EACH LEVEL (GROUND TO 4TH FLOOR).
- 6. MOUNT LIGHTING FIXTURE AT 6'-0" ABOVE PIT LEVEL TO BOTTOM OF FIXTURE.
- 7. CIRCUIT NEW LIGHTING FIXTURE TO EXISTING ELEV PIT LIGHTING CIRCUIT (1R3-7). UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND EXTEND AS NECESSARY.
- 8. CIRCUIT NEW RECEPTACLE TO EXISTING ELEV PIT RECEPTACLE CIRCUIT (1R3-9). UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND EXTEND AS NECESSARY.
- 9. CIRCUIT NEW LIGHTING FIXTURE TO EXISTING ELEV PIT LIGHTING CIRCUIT (1L3E-6). UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND EXTEND AS NECESSARY.
- 10. CIRCUIT NEW RECEPTACLE TO EXISTING ELEV PIT RECEPTACLE CIRCUIT (1L3E-7). UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND EXTEND AS NECESSARY.
- 11. MOUNT LIGHTING SWITCH AT 44" AFF AT BASEMENT FLOOR
- 12. MOUNT RECEPTACLE +18" AFF ABOVE GRATE LEVEL.
- 13. MOUNT LIGHTING FIXTURE AT 9'-0" ABOVE GRATE LEVEL TO BOTTOM OF FIXTURE.
- 14. HEAT DETECTOR PROGRAMMED FOR ELEVATOR SHUNT-TRIP, LOCATED IN ELEVATOR SHAFT ADJACENT (WITHIN 24") TO EACH FIRE SPRINKLER HEAD (WHERE PRESENT).

SHEET NOTES

- A. ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.
- B. CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. NEW DEVICES SHALL MATCH EXISTING.



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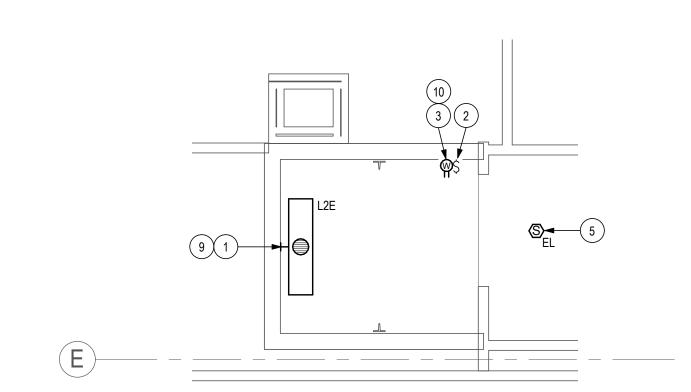
AS NOTED PROJECT NO.

100% SET 10/14/21 SHEET TITLE

ELECTRICAL PLANS - BASEMENT AND FIRST FLOOR

SHEET NO.

E202





REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

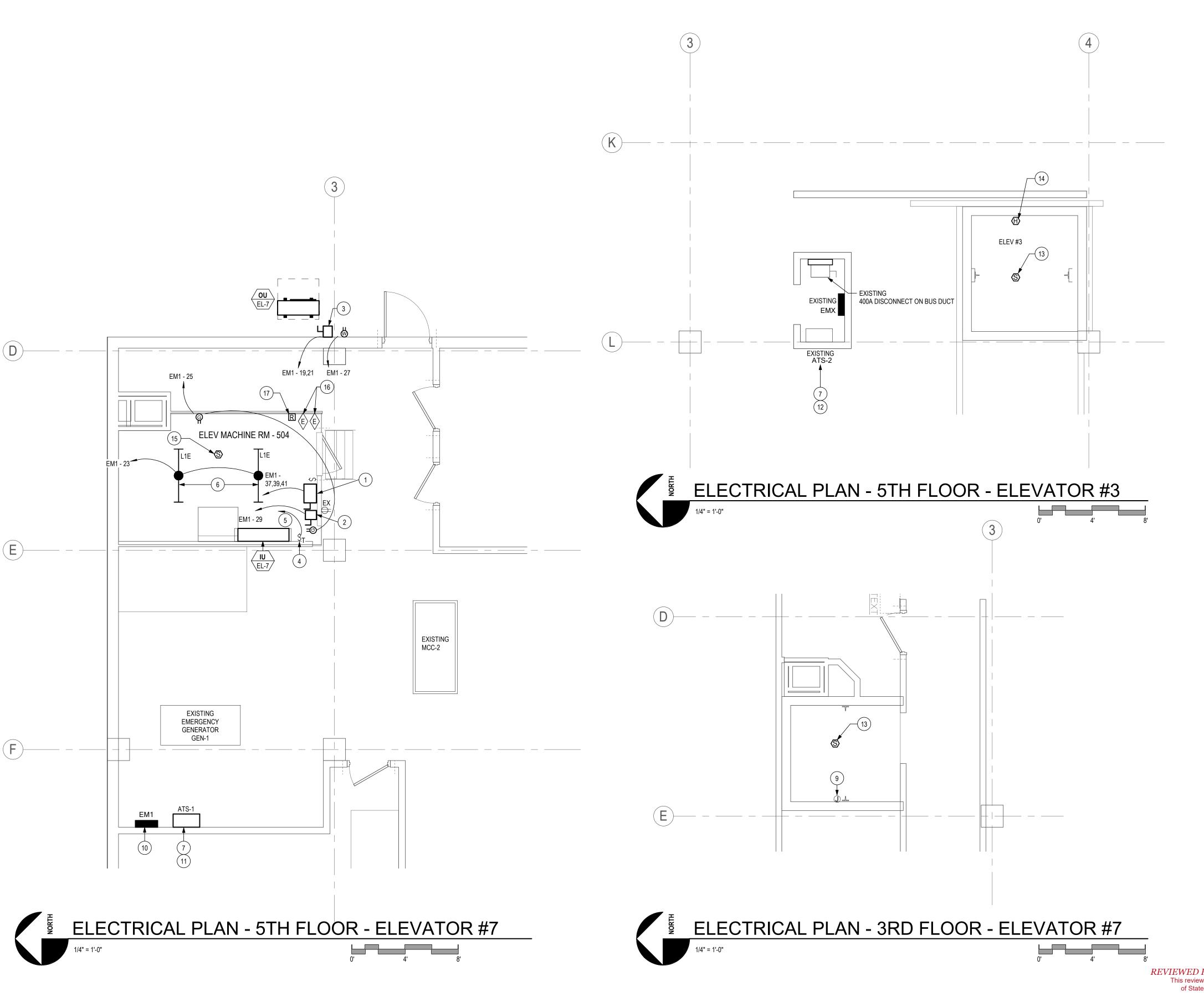
Jun 03 2022

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KEYED NOTES (#)

- 1. 208V, 3PH CONNECTION TO ELEVATOR CONTROLLER VIA FUSIBLE DISCONNECT. PROVIDE NEW CIRCUIT FOR ELEVATOR FEED AS INDICATED. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE LOCATIONS WITH ELEVATOR EQUIPMENT REQUIRED CLEARANCES.
- 2. 120V DEDICATED CIRCUIT TO ELEVATOR CAB LIGHTS AND VENTILATION VIA THE INDICATED 240V, 30A, 2P, LOCKABLE DISCONNECT SWITCH WITH (1) 20A LPN-RK FUSE. ROUTE CIRCUIT VIA ELEVATOR CONTROLLER. COORDINATE LOCATION WITH ELEVATOR EQUIPMENT REQUIRED CLEARANCES.
- 208V, 1PH CONNECTION TO ELEVATOR CONTROL ROOM OUTDOOR HVAC UNIT VIA 240V, 30A, 2P, HEAVY-DUTY, NEMA 3R DISCONNECT WITH 25A LPN FUSES. PROVIDE 2#10 AWG, AND (1) #10 AWG GND IN 3/4"C.
- 30A, 3P, TOGGLE DISCONNECT SWITCH, TYPICAL OF MITSUBISHI ELECTRIC TAZ-MS303.
- PROVIDE 3#12 AWG, AND (1)#12 AWG GND IN 3/4"C BETWEEN INDOOR UNIT AND OUTDOOR UNIT. COORDINATE WITH MANUFACTURER WIRING REQUIREMENTS.
- 6. MOUNT LIGHTING FIXTURE AT 9'-0" AFF TO BOTTOM OF FIXTURE.
- 7. PROVIDE 1" CONDUIT FOR GENERATOR PRE-TRANSFER SIGNAL BETWEEN ATS AND NEW ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR MANUFACTURER FOR EXACT WIRING REQUIREMENTS.
- 8. NOT USED.
- PROVIDE NEW DEDICATED CIRCUIT TO ELEVATOR CAB LIGHTING VIA DISCONNECT LOCATED ABOVE IN ELEVATOR MACHINE ROOM. ROUTE VIA NEW ELEVATOR CONTROLLER.
- PROVIDE NEW PANEL. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 11. PROVIDE NEW ATS. REFER TO ONE-LINE FOR ADDITIONAL INFORMATION.
- 12. PROVIDE SELECTIVE LOAD DISCONNECT CIRCUIT TO PROVIDE A PRE-TRANSFER SIGNAL (ASCO ACCESSORY S1Z)
- 13. SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL AND FIREMAN'S HAT. LOCATE AT TOP OF ELEVATOR SHAFT.
- 14. HEAT DETECTOR PROGRAMMED FOR ELEVATOR SHUNT-TRIP. LOCATED IN ELEVATOR SHAFT ADJACENT (WITHIN 24") TO EACH FIRE SPRINKLER HEAD (WHERE PRESENT).
- SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL AND FIREMAN'S HAT.
- TWO ELEVATOR RECALL CONTROL MODULES ONE FOR PRIMARY FLOOR RECALL AND ONE FOR ALTERNATE FLOOR RECALL.
- 17. CONTROL MODULE FOR ACTIVATION OF THE FIREMAN'S HAT-WHEN SMOKE IS DETECTED IN THE SHAFT OR THE MACHINE

SHEET NOTES

- A. ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.
- B. CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. NEW DEVICES SHALL MATCH EXISTING.



HALL OF JUSTICE Elevator #3 and #7 Modernization

400 COUNTY CENTER REDWOOD CITY, CA 94063 CLIENT

County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063



TRANSPORTATION Elevator and Escalator Consulting EXCELLENCE a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957

LSW Engineers Arizona, Inc.

LSW Engineers

ARIZONA, INCORPORATED

Telephone 602.249.1320

Facsimile 602.336.3276

Project No. 2021-041.000

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ELECTRICAL PLAN - 3RD AND 5TH FLOOR

SHEET NO.

E203

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation
of State or County building laws.

Jun 03 2022

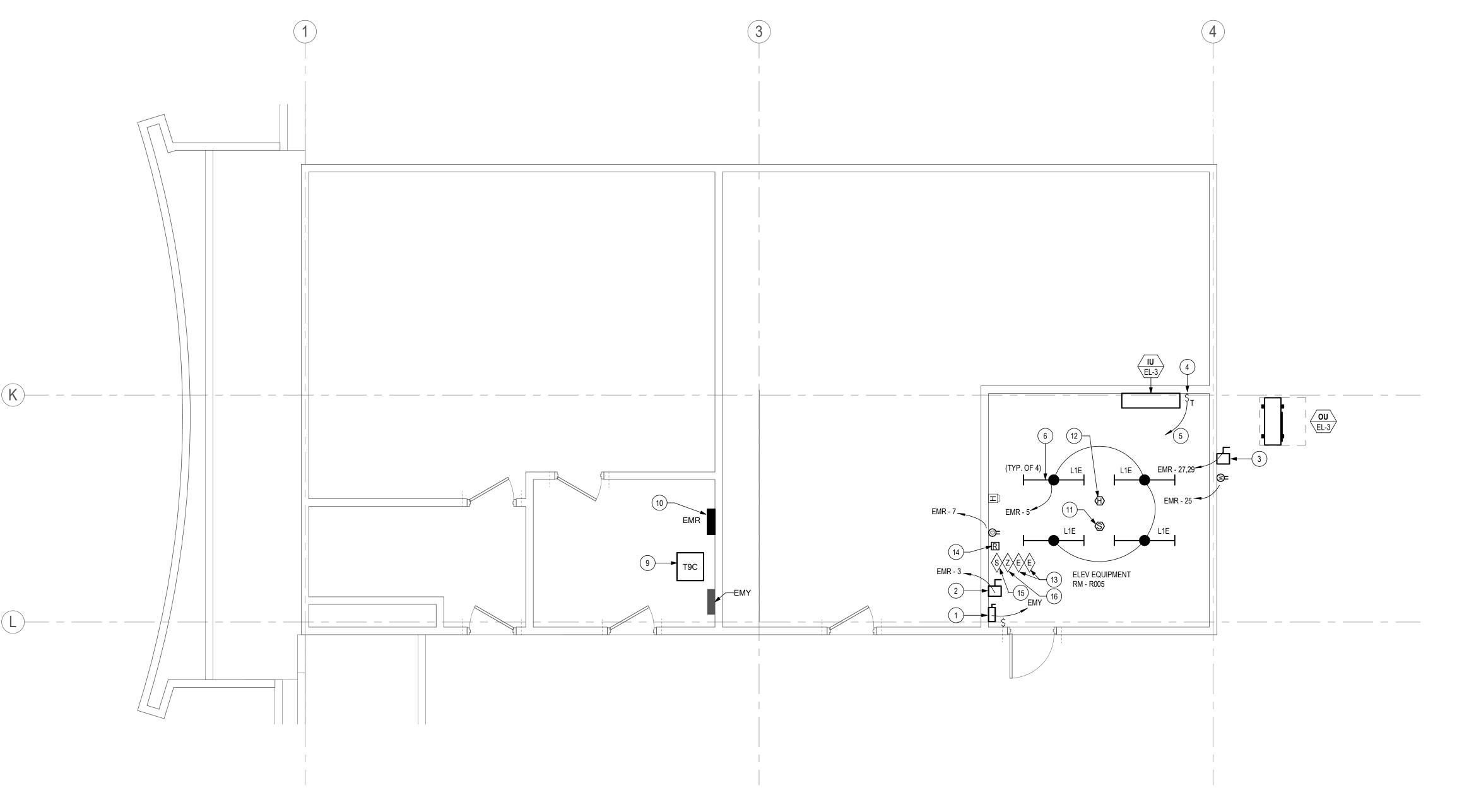
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KEYED NOTES (#)

- 1. 480V, 3PH CONNECTION TO ELEVATOR CONTROLLER VIA FUSIBLE DISCONNECT. PROVIDE NEW CIRCUIT FOR ELEVATOR FEED AS INDICATED. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE LOCATION WITH ELEVATOR EQUIPMENT REQUIRED CLEARANCES.
- 2. 120V DEDICATED CIRCUIT TO ELEVATOR CAB LIGHTS AND VENTILATION VIA THE INDICATED 240V, 30A, 2P LOCKABLE DISCONNECT SWITCH WITH (1) 20A LPN-RK FUSE. ROUTE CIRCUIT VIA ELEVATOR CONTROLLER. COORDINATE LOCATION WITH ELEVATOR EQUIPMENT REQUIRED CLEARANCES.
- 208V, 1PH CONNECTION TO ELEVATOR CONTROL ROOM OUTDOOR HVAC UNIT VIA 240V, 30A, 2P HEAVY-DUTY, NEMA 3R DISCONNECT WITH 25A LPN FUSES. PROVIDE 2#10 AWG, AND (1) #10 AWG GND IN 3/4"C.
- 30A, 3P TOGGLE DISCONNECT SWITCH, TYPICAL OF MITSUBISHI ELECTRIC TAZ-MS303.
- 5. PROVIDE 3#12 AWG, AND (1)#12 AWG GND IN 3/4"C BETWEEN INDOOR UNIT AND OUTDOOR UNIT. COORDINATE WITH MANUFACTURER WIRING REQUIREMENTS. .
- 6. MOUNT LIGHTING FIXTURE AT 9'-0" AFF TO BOTTOM OF FIXTURE.
- 7. PROVIDE 1" CONDUIT FOR GENERATOR PRE-TRANSFER SIGNAL BETWEEN ATS AND NEW ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR MANUFACTURER FOR EXACT WIRING REQUIREMENTS.
- 8. NOT USED.
- 9. PROVIDE NEW TRANSFORMER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 10. PROVIDE NEW PANEL. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 11. SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL AND FIREMAN'S HAT.
- 12. HEAT DETECTOR PROGRAMMED FOR ELEVATOR SHUNT-TRIP. LOCATED IN ELEVATOR MACHINE ROOM ADJACENT (WITHIN 24") TO EACH FIRE SPRINKLER (WHERE PRESENT).
- 13. TWO ELEVATOR RECALL CONTROL MODULES ONE FOR PRIMARY FLOOR RECALL AND ONE FOR ALTERNATE FLOOR RECALL.
- 14. CONTROL MODULE FOR ACTIVATION OF THE FIREMAN'S HAT WHEN SMOKE IS DETECTED IN THE SHAFT OR THE MACHINE ROOM.
- CONTROL MODULE FOR SHUNT-TRIP OF THE ELEVATOR DISCONNECT.
- 16. MONITOR MODULE FOR SHUNT TRIP CONTROL. VOLTAGE MONITORING.

SHEET NOTES

- A. ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.
- B. CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. NEW DEVICES SHALL MATCH EXISTING.



HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER

REDWOOD CITY, CA 94063
CLIENT

County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

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➤ VERTICAL

TRANSPORTATION Elevator and Escalator Consulting
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Project No. 2021-041.000

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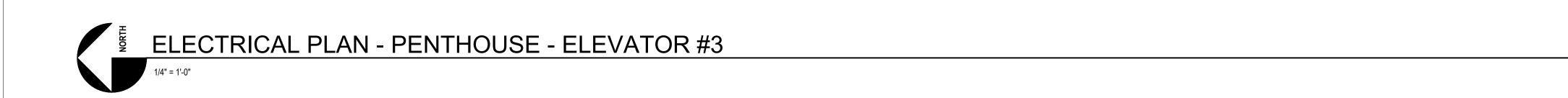
	PROJECT NO.
-	ISSUE DATE 100% SET 10/14/21

SHEET TITLE

ELECTRICAL PLAN - PENTHOUSE - ELEVATOR #3

SHEET NO.

E204



REVIEWED FOR CODE COMPLIANCE

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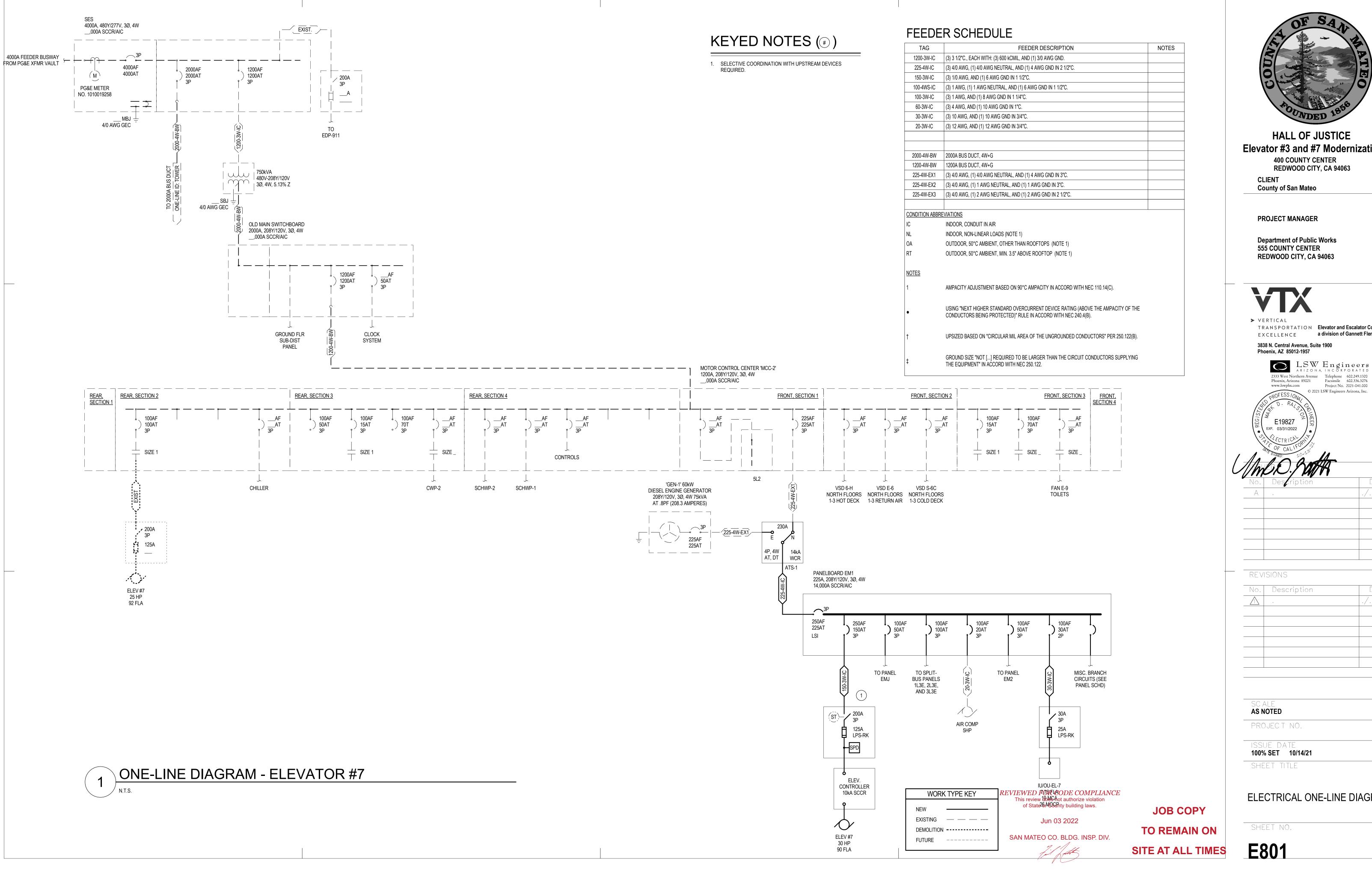
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HALL OF JUSTICE Elevator #3 and #7 Modernization

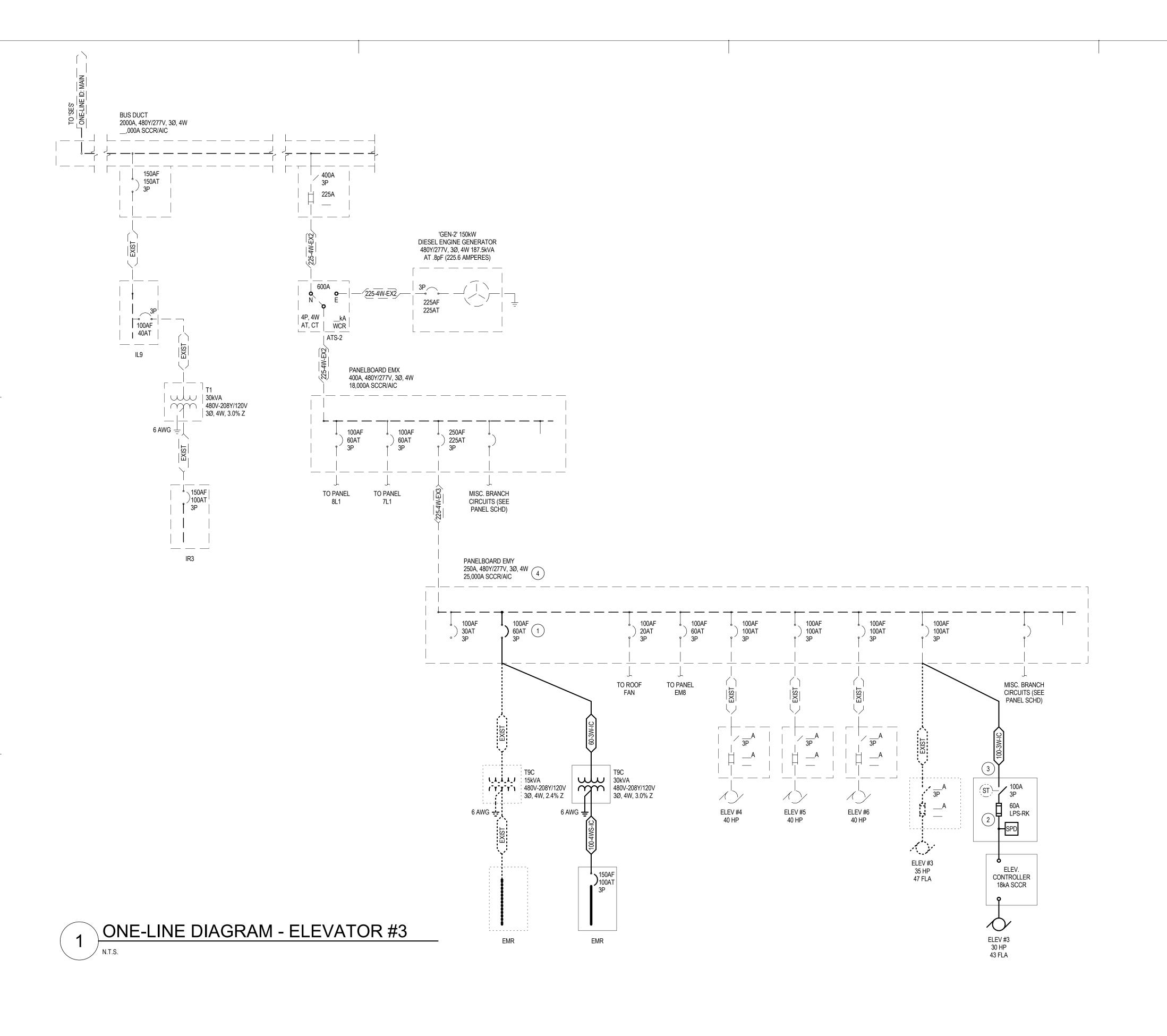
REDWOOD CITY, CA 94063

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LSW Engineers
ARIZONA, INCORPORATED

Date

ELECTRICAL ONE-LINE DIAGRAMS



KEYED NOTES (#)

- 1. REPLACE EXISTING BREAKER AS INDICATED.
- 2. FUSIBLE ELEVATOR SHUNT-TRIP DISCONNECT.
- 3. SELECTIVE COORDINATION WITH UPSTREAM DEVICES REQUIRED.
- 4. REPLACE ALL BREAKERS IN THIS PANEL WITH MINIMUM 25KAIC RATED BREAKERS.



HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER REDWOOD CITY, CA 94063

CLIENT **County of San Mateo**

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER **REDWOOD CITY, CA 94063**

	X	

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PROJECT NO.

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ELECTRICAL ONE-LINE DIAGRAM

SHEET NO.

E802



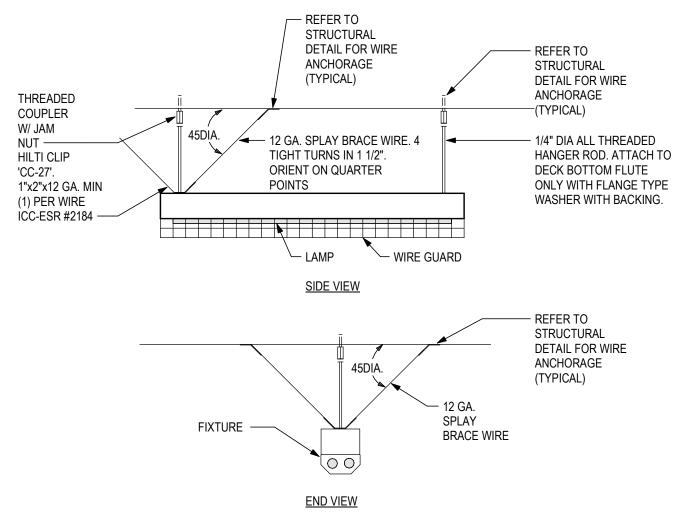
								<u> </u>							
Fault	Location (Node description)	Conductors U.N.O., Bus	way (B)		Conduit or	System	'C' Value	Combined	Isc	Phase:	Ϋ́	'M'	Normal Full	Max. Full	Min. Equip
F#		No. Sets	Size	Length (ft)	(Busway) Type	Voltage		'C' Value	Begin	1 or 3	Factor	Value	Isc Fault	Isc Fault	SCCR/WCR
1	SES												56,762	56,762	65,000
2	750 KVA XFMR PRI	3	600 CU	25	Mag (CU)	480	22,965	68,895	56,762	3	0.0742	0.9309	52,839	52,839	N/A
3	OLD MAIN SWBD	1	2000A (B)	200	Mag (CU)	208	134,200	134,200	32,946	3	0.4084	0.7100	23,393	23,393	30,000
4	MCC-2	1	1200A (B)	260	Mag (CU)	208	76,900	76,900	23,393	3	0.6578	0.6032	14,111	14,111	18,000
5	ATS-1	1	4/0 CU	40	Mag (CU)	208	15,082	15,082	14,111	3	0.3113	0.7626	10,761	10,761	14,000
6	EM1	1	4/0 CU	10	Mag (CU)	208	15,082	15,082	10,761	3	0.0593	0.9440	10,158	10,158	14,000
7	ELEV #7 DISC	1	1/0 CU	50	Mag (CU)	208	8,925	8,925	10,158	3	0.4733	0.6787	6,895	6,895	10,000
8	IU/OU-EL-7 DISC	1	10 CU	65	Mag (CU)	208	981	981	10,158	3	5.5981	0.1516	1,540	1,540	5,000
9	BUS DUCT	1	2000A (B)	200	Mag (CU)	480	134,200	134,200	56,762	3	0.3049	0.7663	43,500	43,500	65,000
11	ATS-2	1	4/0 CU	10	Mag (CU)	480	15,082	15,082	43,500	3	0.1040	0.9058	39,403	39,403	50,000
12	EMX	1	4/0 CU	10	Mag (CU)	480	15,082	15,082	39,403	3	0.0942	0.9139	36,012	36,012	50,000
13	EMY	1	4/0 CU	100	Mag (CU)	480	15,082	15,082	36,012	3	0.8606	0.5375	19,355	19,355	25,000
14	T9C XFMR RI	1	4 CU	10	Mag (CU)	480	3,806	3,806	19,355	3	0.1833	0.8451	16,357	16,357	N/A
15	EMR	1	1 CU	10	Mag (CU)	208	7,293	7,293	2,854	3	0.0326	0.9685	2,764	2,764	10,000
16	ELEV #3 DISC	1	1 CU	55	Mag (CU)	480	7,293	7,293	19,355	3	0.5261	0.6553	12,683	12,683	18,000

208.3A - 208Y/120V, 3ø, 4W

1200A - 208Y/120V, 3ø, 4W			
	LOAD (VA)		
	Ø A	ØВ	øс
LOAD TO BE DEMOLISHED			
EXISTING ELEVATOR #7	-11,040	-11,040	-11,040
LOAD ON 5L2			-460
NEW LOADS ON PANEL EM1			
NEW ELEVATOR #7	10,800	10,800	10,800
IU/OU-EL-7	931	931	
MISCELLANEOUS OTHER LOADS	360	180	584
Total Connected Load (VA):	1,051	871	-116
	l		
Total Code Load (VA):	1,051	871	-116
Total Code Load Change (Amps):	9	7	-1
Total Code Load (3ø kVA):		1.8	•

250A (225A MAX: UPSTREAM) - 480Y/27			
	LOAD (VA)		
	Ø A	ØВ	ØС
LOAD TO BE DEMOLISHED			
EXISTING ELEVATOR #3	-13,019	-13,019	-13,019
NEW LOADS			
NEW ELEVATOR #3	11,911	11,911	11,911
NEW LOADS ON PANEL EMR	180	931	931
Total Connected Load (VA):	-928	-177	-177
Total Code Load (VA):	-928	-177	-177
iotal oode Load (VA).	-3	-1	-1
Total Code Load Change (Amps):			

2,700	2,700	2,700
	T	
23,567	23,387	23,006
196	195	192
	,	· · · · · · · · · · · · · · · · · · ·



Replacement Panel: EM1			. (208.3A MA	A. UPSTREA	ivi <i>)</i>		•	208Y/120V, 3ø, 4W
Mounting: SURFACE (NEMA 1)	Type: BC							SCCR/A.I.C.: 14,000A
Use and/or Area Served	C/B	Cir.		Load (VA)	1	Cir.	C/B	Use and/or Area Served
		No.	ØA	ØB	ØС	No.		
EM LTG OVER GENERATOR	20	1				2	20	SPARE
LTG - OUTSIDE	40	3			1	2	20	RECEPT & LIGHT @ COMPRESSOR
210 0010.52	.0				-	4	1	
		5					20	5TH FL FIRE ALARM PANELS
PANEL EMJ	50	7		1		6	20	COMPRESSOR
TARLE LIND	00					8	120	COMI RESCOT
		9						
		11				10	-	
	3					12	3	
SPARE	20	13					50	PANEL EM2
RECEPT AT PANEL	20	15			1	14	-	
RECEPT AT PANEL	20					16	1	
SPARE	20	17						
III/OU EL 7	1	40	004	1		18	3	
IU/OU-EL-7	30	19	931			20	20	LTG - STORAGE RM & HALL
		21		931]	20	20	GEN-1 BLOCK HEATER
	2					22	1	
LTG - ELEV #7 MACHINE RM	20	23			84	24	20	GEN-1 BATTERY CHARGER
RECEPT - ELEV #7 MACHINE RM	20	25	360]		27	'	SPACE
	1			400	1	26		004.05
RECEPT - EXTERIOR	20	27		180	<u> </u> 	28	-	SPACE
ELEV #7 CAB LIGHTING	20	29			500	20		SPACE
00.105	1	0.4		1		30		00105
SPARE	20	31				32	_	SPACE
SPARE	20	33]	52		SPACE
	1					34		
SPARE	20	35				36	-	SPACE
ELEVATOR # 7	150	37	10,800]		30	100	PANEL 1L3E, 2L3E, 3L3E
			,		-	38		, ,
		39		10,800		40	-	
		41			10,800	40	_	
	3				75,555	42	3	
Existing Load			8,776	8,776	8,776	(Maxi	mum Dema	and at 125%)
Total Connected Load (VA):			20,867	20,687	20,160	NOTE	S:	
+ 25% of Continuous Load:				146	1.		UITS ARE EXISTING TO BE REFED,	
+ 25% of Largest Motor:			2,700	2,700	2,700		UNO.	
						_		ADS ARE SHOWN BOLD-ITALIC.
T.(-10.4.110/6)			00 -0-	00.00=	00.000	3.	ALL CIRC	UIT BREAKERS SHALL BE NEW.
Total Code Load (VA):			23,567	23,387	23,006		• • •	(0.1)(0.1)
Total Code Load (Amps):			196	195	192	Total	Code Load	(3ø kVA): 70

Total Code Load (Amps):			196	195	192	Total	Code Load	1 (30 KVA): 70	
Replacement Panel: EMR	Mains: 10	00A C.B	. (83.3A MAX	(: TRANSFOR	RMER)		Voltage:	208Y/120V, 3ø, 4W	
Mounting: SURFACE (NEMA 1)	Type: BC	Type: BOLT-ON				Minimum SCCR/A.I.C.: 10,000A			
Use and/or Area Served	C/B	Cir.			C/B	Use and/or Area Served	Served		
		No.	Ø A	Ø B	øс	No.			
SPARE	20	1	271	~ -		+	20	LTG - ELEVATOR MACHINE RM	
	1		500		_	2	1		
LTG - ELEV CAR #3	20	3		500 500			20	LTG - ELEVATOR MACHINE RM	
NOTE 3 LTG - MACHINE ROOM (ELEV #3)	20	5		500	168	4	20	SPARE	
NOTE 3	1				100	6	1		
RECEPT - MACHINE RM (ELEV #3)	20	7	180				20	RECEPTS OUTSIDE RADIO RM	
NOTE 3 RECEPT - BELOW PANEL	20	9	360	180	7	8	20	SPARE	
TREGEL 1 - BELOW I ANEL	1			100		10	1		
LTG - ELEV CAR #4	20	11			500		20	SPARE	
LTG - ELEV CAR #5	20	13	500	٦		12	20	RECEPT	
LIG-ELEV CAN #3	1	13	1,200	-		14	- 20	INCOUP I	
LTG - ELEV CAR #6	20	15	,	500]		
AID HANDLED	1	47		1,200	700	16	2		
AIR HANDLER	20	17			792 500	18	20 1	LTG - OUTSIDE	
AC	30	19	1,452	7		10	15	EXHAUST FAN FOR MACHINE RM	
			264	4.450	7	20			
		21		1,452 264		22	-		
		23		204	1,452		-		
	3			_	264	24	3		
RECEPT - EXTERIOR	20	25	180	_		26	-	SPACE	
IU/OU-EL-3	30	27		931]	20		SPACE	
						28			
	2	29			931	30	-	SPACE	
SPARE	20	31		7		30		SPACE	
	1				_	32			
SPARE	20	33			_	24	_	SPACE	
SPARE	20	35				34		SPACE	
	1			_		36			
SPARE	20	37		_		20	-	SPACE	
SPARE	20	39			1	38		SPACE	
	1					40			
SPARE	20	41				10		SPACE	
Total Connected Load (VA):	1		4,636	5,527	4,607	42 NOTE			
+ 25% of Continuous Load:			125	250	167	_		CUITS ARE EXISTING TO BE REFED,	
+ 25% of Largest Motor:			66	66	66	┤ '`	UNO.	, or the Enterino TO DE NEI ED,	
g				""	""	2.		ADS ARE SHOWN BOLD-ITALIC.	
						_		AD IS LESS THAN OR EQUAL TO	
							EXISTING		
						4.	ALL CIRC	CUIT BREAKERS SHALL BE NEW.	
Total Code Load (VA):			4,827	5,843	4,840				
Total Code Load (Amps):			40	49	40	Total	Code Load	I (3ø kVA): 15.5	

REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

Jun 03 2022 SAN MATEO CO. BLDG. INSP. DIV.

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HALL OF JUSTICE Elevator #3 and #7 Modernization **400 COUNTY CENTER**

REDWOOD CITY, CA 94063

County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER **REDWOOD CITY, CA 94063**

TRANSPORTATION Elevator and Escalator Consulting EXCELLENCE a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900

Phoenix, AZ 85012-1957 LSW Engineers 2333 West Northern Avenue Phoenix, Arizona 85021 Facsimile 602.249.1320 Facsimile 602.336.3276 Project No. 2021-041.000 www.lswphx.com © 2021 LSW Engineers Arizona, Inc.

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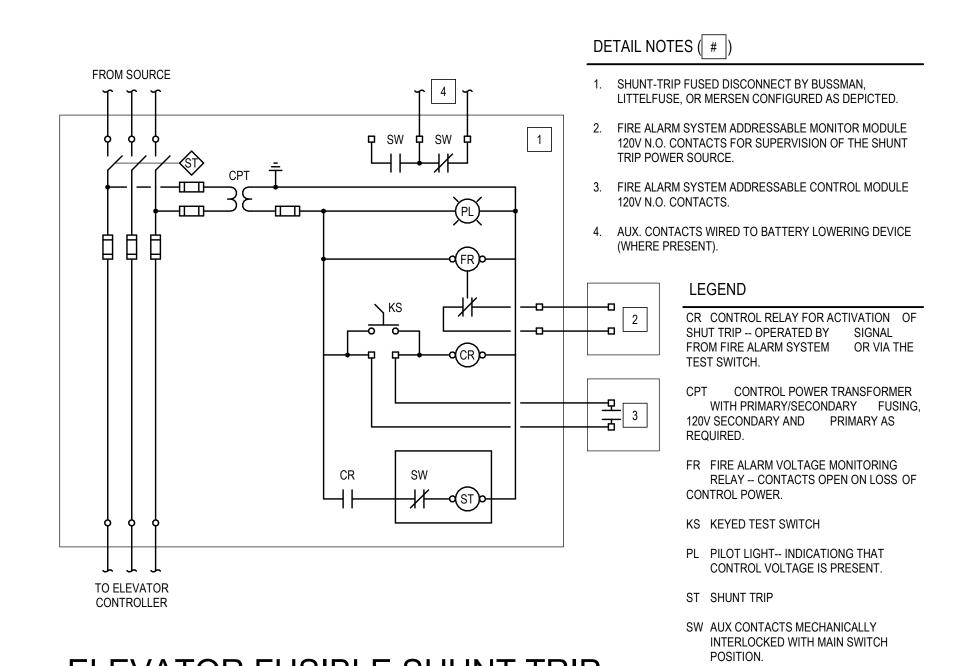
100% SET 10/14/21

SHEET TITLE

DETAILS, CALCULATIONS, AND PANEL SCHEDULES

SHEET NO.

E901



ELEVATOR FUSIBLE SHUNT TRIP

DISCONNECT

SUSPENDED FLUOR. STRIP MOUNTING DETAIL

	ADDDE\/IATIONS		ADDDE\/IATIONS
	ABBREVIATIONS		ABBREVIATIONS
Α	AMPERE	LTG	LIGHTING
ADAAG	AMERICANS WITH DISABILITES ACT ACCESSIBILITY GUIDELINES	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MECH	MECHANICAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MIN	MINIMUM
APPROX	APPROXIMATE	MR	MACHINE ROOM
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS		MACHINE ROOM LESS
BLDG	BUILDING	MTD	MOUNTED
ВМ	BEAM	MTG	MOUNTING
BTU	BRITISH THERMAL UNITS	NEII	NEUTRAL NATIONAL ELEVATOR INDUSTRY INCORDORATER
BFR	BUFFER		NATIONAL ELEVATOR INDUSTRY INCORPORATED NATIONAL ELEVATOR MANUFACTURING
С	CONDUIT	NEMI	INDUSTRY INCORPORATED
CAP	CAPACITY	NEIEP	NATIONAL ELEVATOR INDUSTRY EDUCATION PROGRAM
СВ	CIRCUIT BREAKER	N.I.C.	NOT IN CONTRACT
CKT	CIRCUIT	NC	NORMALLY CLOSED
CL	CENTER LINE	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CLOS	CLOSET	ОС	ON CENTER
CLR	CLEAR	ОН	OVERHEAD
CMU	CONCRETE MASONARY UNIT	OPNG	OPENING
COL	COLUMN	Р	POLE
COMP	CHAIN COMPENSATION	PB	PUSH BUTTON
CONT	CONTINUATION	PH	PHASE
СОР	CAR OPERATING PANEL	PI	POSITION INDICATOR
CRT	COMPUTER REMOTE TERMINAL	PLC	PROGRAM LOGIC CONTROLLER
CTRL	CONTROLLER	PLSW	PIT LIGHT SWITCH
CTRLRM	CONTROLLER ROOM	PKT	POCKET
CWT	COUNTERWEIGHT	PNL	PANEL
DBG	DISTANCE BETWEEN GUIDES	PSI	POUNDS PER SQUARE INCH
DISC	DISCONNECT	PSW	PIT STOP SWITCH
DN	DOWN	PWR	POWER
DWG	DRAWING	RC	RUNNING CLEARANCE
EC	EMPTY CONDUIT	RECEPT	RECEPTACLE
ELEC	ELECTRICAL	RGS	ROLLER GUIDE SHOE
EMR	ELEVATOR MACHINE ROOM	RM	ROOM
EQUIP	EQUIPMENT	RPM	REVOLUTION PER MINUTE
ERMS	ELEVATOR/ESCALATOR REMOTE	RTU	REMOTE TERMINAL UNIT
EXIST	MONITORING SYSTEM EXISTING	SCHED	SCHEDULE
F	FRONT ONLY	SCR	SILICON CONTROL RECTIFIER
F/R	FRONT AND REAR	SD	SMOKE DETECTOR
FPM	FEET PER MINUTE	SECT	SECTION
FDR	FEEDER	SHV	SHEAVE
FIXT	FIXTURE	SPEC	SPECIFICATION
FL	FLOOR	SSCO	SINGLE SPEED CENTER OPENING
FLEX	FLEXIBLE	SSSO	SINGLE SPEED SIDE OPENING
FLUOR	FLUORESCENT	SW	SWITCH
FT	FEET OR FOOT	SUPT	SUPPORT
G	GROUND	SYS	SYSTEMS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TBD	TO BE DETERMINED
GOV	GOVERNOR	TBR	TO BE REMOVED
GPM	GALLONS PER MINUTE	TEL	TELEPHONE
H.R.	HOME RUN	TRANSF	TRANSFORMER
HR	HANDRAIL	TSCO	TWO SPEED CENTER OPENING
HP	HORSEPOWER	TSSO	TWO SPEED CENTER OPENING TWO SPEED SIDE OPENING
HW	HOISTWAY	TYP	TYPICAL
1144	INCHES	UNF	UNFUSED
IN	IIIOIILO	UNF	UNLESS OTHERWISE NOTED
INCAND	INCANDESCENT		STAFFOR OUT INTINE INC. I INC.
INCAND	INCANDESCENT		VOLT OR VOLTAGE
INCAND INT	INTERMEDIATE	V	VOLT OR VOLTAGE
INCAND INT IUEC	INTERMEDIATE INTERNATIONAL UNION OF ELEVATOR CONSTRUCTORS	V VA	VOLT AMPERE
INCAND INT IUEC JB	INTERMEDIATE INTERNATIONAL UNION OF ELEVATOR CONSTRUCTORS JUNCTION BOX	V VA VIF	VOLT AMPERE VERIFY IN FIELD
INCAND INT IUEC	INTERMEDIATE INTERNATIONAL UNION OF ELEVATOR CONSTRUCTORS	V VA VIF VPL	VOLT AMPERE VERIFY IN FIELD VERTICAL PLATFORM LIFT
INCAND INT IUEC JB	INTERMEDIATE INTERNATIONAL UNION OF ELEVATOR CONSTRUCTORS JUNCTION BOX	V VA VIF VPL W	VOLT AMPERE VERIFY IN FIELD VERTICAL PLATFORM LIFT WATT
INCAND INT IUEC JB KVA	INTERMEDIATE INTERNATIONAL UNION OF ELEVATOR CONSTRUCTORS JUNCTION BOX KILOVOLT AMPERE	V VA VIF VPL W WP	VOLT AMPERE VERIFY IN FIELD VERTICAL PLATFORM LIFT WATT WORKING POINT
INCAND INT IUEC JB KVA KW	INTERMEDIATE INTERNATIONAL UNION OF ELEVATOR CONSTRUCTORS JUNCTION BOX KILOVOLT AMPERE KILOWATT	V VA VIF VPL W	VOLT AMPERE VERIFY IN FIELD VERTICAL PLATFORM LIFT WATT

GENERAL NOTES:

PASSENGER ELEVATOR(S)

1.) ALL WORK TO CONFORM TO THE FOLLOWING:

-AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) ASME/ANSI A17.1-2016

-ICC/ANSI A117.1-2009 AND LATER EDITIONS,

-AMERICAN DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) FOR BUILDINGS AND FACILITIES 2004 AND LATER

-CALIFORNIA BUILDING CODE, 2019

-NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, 30, 70 AND 72 EDITIONS,

-NATIONAL ELECTRICAL CODE (NEC), 2017

2.) REFER TO SPECIFICATIONS SECTION 14 21 00 FOR ELEVATORS.

3.) KEEP ALL EQUIPMENT, PARTS OF THE BUILDING. EXTERIOR SPACE, ADJACENT STREETS, SIDEWALKS AND PAVEMENT FREE FROM MATERIALS AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR EXTERIOR OF THE FACILITY.

4.) FURNISH AND INSTALL TEMPORARY LIGHTING IN THE WORK AREA AT NO ADDITIONAL COST TO THE AUTHORITY. POWER SOURCE LOCATION TO BE DETERMINED BY THE AUTHORITY.

5.) PROVIDE SUITABLE WORKING ENVIRONMENT INCLUDING ADEQUATE ACCESS TO THE BUILDING/FACILITY, PROPER LIGHTING IN ALL AREAS. CLEAN AND SAFE STORAGE WITHIN RELATIVE PROXIMITY TO THE HOISTWAY, AND SUFFICIENT ON-SITE REFUSE CONTAINERS FOR THE DISPOSAL OF ELEVATOR PACKING MATERIALS.

6.) SUBMIT BARRICADE PLAN AND DETAILS TO MEET THE APPROVAL OF THE AUTHORITY, PRIOR TO START OF

7.) CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

CONTROLLER ROOM NOTES:

PASSENGER ELEVATOR(S)

1.) MINIMUM CONTROLLER ROOM HT. = 7-6" CLEAR TO NEAREST OBSTRUCTION WITHIN ROOM.

2.) ONLY MACHINERY AND EQUIPMENT USED IN CONJUNCTION WITH THE FUNCTION OF THE ELEVATOR SHALL BE PERMITTED IN THE ELEVATOR HOISTWAY OR CONTROLLER ROOM.

3.) ACCESS DOOR TO CONTROLLER ROOM MUST BE SECURED. AND ONLY ACCESSIBLE TO AUTHORIZED PERSONNEL. DOOR SHALL BE SELF CLOSING, SELF LOCKING AND PROVIDED WITH APPROPRIATE SIGNAGE.

4.) BTU'S/HOUR SHOWN ARE PER EACH ELEVATOR. CONTROLLER ROOM TEMPERATURE TO BE MAINTAINED BETWEEN 55 TO 90 DEGREES FAHRENHEIT. RELATIVE HUMIDITY TO BE MAINTAINED AT 95% OR LESS NON-CONDENSING, CONTROLLER ROOMS SHALL BE PROVIDED WITH NATURAL OR MECHANICAL MEANS TO KEEP THE AMBIENT AIR TEMPERATURE AND HUMIDITY IN THE RANGE SHOWN TO ENSURE NORMAL OPERATION OF THE ELEVATOR. THE TEMPERATURE AND HUMIDITY RANGE SHALL BE PERMANENTLY POSTED IN THE CONTROLLER ROOM.

5.) ALL DISCONNECTS AND CIRCUIT BREAKERS ARE TO BE LOCKABLE, FUSED AND LABELED WITH APPROPRIATE ELEVATOR EQUIPMENT NO. AND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). DISCONNECTS AND POWER FEEDS TO BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR AND TERMINATED AT THE POINT OF DISCONNECT. ELEVATOR CONTRACTOR WILL RUN CIRCUITS/FEEDS FROM POINT OF DISCONNECT OUT TO ELEVATOR EQUIPMENT.

6.) GENERAL CONTRACTOR SHALL PROVIDE DEDICATED PHONE LINE(S) TERMINATING AT ELEVATOR CONTROLLER CABINET(S).

7.) GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL CLASS ABC TYPE OF FIRE EXTINGUISHER(S).

BARRICADE NOTES

PASSENGER ELEVATOR(S)

1.) ALL BARRICADES SHALL MEET ELEVATOR INDUSTRY FIELD EMPLOYEE'S SAFETY HANDBOOK 2011 AND/OR LATER EDITIONS, AS APPLICABLE.

2.) ALL BARRICADES SHALL MEET OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) PART 29 CFR MINIMUM REQUIREMENTS FOR ACCESS AND SAFETY.

3.) BARRICADES SHALL BE PROVIDED AT ALL ELEVATOR ENTRANCES ANYTIME THEY DO NOT HAVE FULL HOISTWAY ENTRANCES.

4.) ALL BARRICADES SHALL HAVE BEVELED EDGES.

5.) BARRICADES SHALL BE A MINIMUM OF 7'-6" IN HEIGHT

6.) DO NOT UTILIZE BOLTS TO FASTEN BARRICADES TO GRANITE/TERRAZO/TILE FLOORING, CONTRACTOR SHALL UTILIZE AN ADHESIVE THAT MEETS WITH THE APPROVAL OF THE AUTHORITY. ANY DAMAGE TO EXISTING GRANITE/TERRAZO/TILE FLOORS OR METAL SURFACES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AND/OR REPLACED TO THE SATISFACTION OF THE AUTHORITY AT NO ADDITIONAL COST TO THE AUTHORITY.

7.) SUBMIT ALL MATERIAL SAFETY DATA SHEETS (I.E. MSDS) FOR ALL ADHESIVES USED DURING BARRICADE ERECTION. COPY OF SHEETS TO BE SUBMITTED TO THE AUTHORITY FOR RECORD PRIOR TO START OF WORK.

8.) UTILIZE 3/4" MINIMUM MARINE GRADE PLYWOOD FOR ALL BARRICADES.

9.) ALL FRAMING MEMBERS SHALL BE CONSTRUCTED WITH 2" X 4" MINIMUM STUDDING FOR ALL BARRICADES.

10.) ALL BARRICADES SHALL BE PAINTED WITH FIRE RETARDANT PAINT. PAINT COLOR IS TO BE DETERMINED BY THE AUTHORITY. REFER TO SPECIFICATIONS.

11.) SUPPLY ALL BARRICADE ENTRANCES WITH LOCKS. ALL LOCKS MUST MEET WITH THE APPROVAL OF THE AUTHORITY. SPARE KEYS FOR LOCKS SHALL BE SUPPLIED TO THE AUTHORITY.

12.) CLEAR PASSAGEWAY SHALL REMAIN CLEAR FOR PUBLIC ACCESS. PASSAGEWAY CLEARANCE SHALL BE DETERMINED BY THE AUTHORITY.

13.) ALL FINISHED FLOORS INSIDE OF WORK AREA SHALL BE COVERED WITH MASONITE.

14.) ALL FINISHED SURROUNDING WALLS WITHIN WORK AREAS SHALL BE COVERED WITH MASONITE. MASONITE SHALL EXTEND 4'-0" MINIMALLY ON ALL WALL AND ADJACENT SURFACES.

15.) ALL BARRICADE POSTED SIGNS CONTENT SHALL BE DETERMINED BY THE AUTHORITY.

16.) FOR SECURITY PURPOSES, NO STORAGE ON TOP OF BARRICADES SHALL BE PERMITTED.

STAGING AND SCHEDULE NOTES PASSENGER ELEVATOR(S)

1.) ATTEND JOB PROGRESS AND COORDINATION MEETINGS WITH THE AUTHORITY AS PER DIVISION 1 SPECIFICATIONS OR OTHERWISE REQUIRED BY THE AUTHORITY.

2.) SUBMIT DETAILED SCHEDULE WITH MILESTONE DATES AND STAGING EFFORTS. ADDITIONALLY, A MAN LOADED SCHEDULE TO BRACKET FASTENINGS TO BE FURNISHED BY ELEVATOR BE PROVIDED TO THE AUTHORITY ON A WEEKLY BASIS ON THE PROGRESSION OF WORK.

PIT AREA NOTES:

PASSENGER ELEVATOR(S)

1.) GENERAL CONTRACTOR SHALL PROVIDE A DRY ELEVATOR PIT THAT SHALL BE REINFORCED TO SUSTAIN VERTICAL FORCES FROM GUIDE RAILS AND BUFFERS. REFER TO REACTION LOADING DIAGRAM FOR APPROXIMATE LOADING CRITERIA. FINAL LOADING CRITERIA TO BE DICTATED BY THE ELEVATOR CONTRACTOR BASED ON THEIR SPECIFIC EQUIPMENT REQUIREMENTS.

2.) PERMANENT PROVISIONS SHALL BE MADE TO PREVENT ACCUMULATION OF GROUND WATER IN THE PIT. PROVISIONS SHALL BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

3.) DRAINS AND SUMP PUMPS, WHERE PROVIDED, SHALL COMPLY WITH THE APPLICABLE PLUMBING CODE, AND THEY SHALL BE PROVIDED WITH A POSITIVE MEANS TO PREVENT WATER, GASES, AND ODORS FROM ENTERING THE HOISTWAY. SUMP PUMP AND OR DRAIN PROVISIONS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR.

4.) IN ELEVATORS PROVIDED WITH FIREFIGHTERS' EMERGENCY OPERATION, A DRAIN OR SUMP PUMP SHALL BE PROVIDED. SUMP PUMP AND OR DRAIN PROVISIONS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR.

5.) SUMPS/ AND OR SUMP PUMPS (WHERE PERMITTED) LOCATED WITHIN ELEVATOR PITS SHALL NOT INTERFERE WITH ELEVATOR EQUIPMENT. SUMP PIT AND PUMP PROVISIONS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR.

6.) GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL A PIT LADDER OF NON-COMBUSTIBLE MATERIAL WHICH SHALL EXTEND 48" FROM THE PIT FLOOR ABOVE THE SILL OF THE ACCESS LANDING. GENERAL CONTRACTOR TO COORDINATE RUNG WIDTH AND CENTERLINE OF RUNG TO ADJACENT WALL WITH ELEVATOR CONTRACTOR TO AVOID INTERFERENCE WITH ELEVATOR EQUIPMENT.

7.) GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL LIGHT FIXTURE(S) WITH PROTECTIVE COVER(S). ELEVATOR CONTRACTOR TO COORDINATE LOCATION TO ENSURE THAT ELECTRICAL DEVICE WILL NOT INTERFERE WITH ELEVATOR EQUIPMENT.

8.) GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL A LIGHT SWITCH WITHIN PROXIMITY TO PIT LADDER/ACCESS. ELEVATOR CONTRACTOR TO COORDINATE LOCATION TO ENSURE ELECTRICAL DEVICE WILL NOT INTERFERE WITH ELEVATOR EQUIPMENT.

9.) GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL AND DUPLEX GROUND FAULT CIRCUIT INTERUPTED (GFCI) CONVENIENCE OUTLET WITHIN PROXIMITY TO THE ELEVATOR PIT LADDER/ACCESS. ELEVATOR CONTRACTOR TO COORDINATE LOCATION TO ENSURE THAT ELECTRICAL DEVICE WILL NOT INTERFERE WITH ELEVATOR EQUIPMENT.

10.) WHEN SUMP PUMPS ARE PROVIDED, GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL A NON-GROUND FAULT CIRCUIT INTERUPTED SINGLE OUTLET WITHIN PROXIMITY TO THE SUMP PUMP AND/OR SUMP PIT.

11.) ANY ADDITIONAL ELECTRICAL POWER DEVICES, SUCH AS OUTLETS AND LIGHT SWITCHES, SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR AS

12.) ADDITIONAL CONCRETE INSERTS AND/OR RAIL CONTRACTOR, INSTALLED BY GENERAL CONTRACTOR. NO EPOXY INSERTS SHALL BE USED.

HOISTWAY NOTES:

PASSENGER ELEVATOR(S)

1.) CLEAR, PLUMB HOISTWAY AS SHOWN SHALL BE PROVIDED. VARIATIONS SHALL NOT EXCEED ±1".

2.) DUE TO CLOSE RUNNING CLEARANCES CONTRACTOR SHALL ENSURE THAT HOISTWAY AND PITS ARE LEVEL. PLUMB AND SQUARE AND ARE IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

3.) CONTRACTOR MUST ENSURE MINIMUM OVERHEAD CLEARANCE IS IN COMPLIANCE WITH LOCAL AND NATIONAL CODES.

4.) CONTRACTOR SHALL PROVIDE ALL MASONRY, CARPENTRY AND DRYWALL WORK AS REQUIRED AND SHALL PATCH AND MAKE GOOD (INCLUDING FINISH PAINTING) ALL AREAS WHERE WALLS/FLOORS MAY REQUIRE TO BE CUT, DRILLED OR ALTERED IN ANY WAY TO PERMIT THE PROPER INSTALLATION OF THE ELEVATOR.

5.) ADEQUATE SUPPORT FOR GUIDE RAIL BRACKETS EXTEND FROM PIT FLOOR TO TOP OF HOISTWAY, SEE MAXIMUM RAIL BRACKET

SPACING FOR LOCATION/DETERMINATION OF BRACKET SUPPORTS.

6.) ELEVATOR HOISTWAYS THAT ARE REQUIRED BY THE BUILDING CODE TO BE FIRE RATED, FIREPROOFING SHALL BE APPLIED AFTER INSTALLATION OF GUIDE RAIL BRACKETS.

7.) BLOCKOUT/ CUTOUT OPENINGS FOR HALL STATIONS, SIGNALING FIXTURES, HATCH DUCTS AND ANY OTHER REQUIRED BLOCKOUTS/ CUTOUT OPENINGS ARE TO BE LOCATED BY THE ELEVATOR CONTRACTOR AND PROVIDED BY THE GENERAL CONTRACTOR.

8.) WHEN REQUIRED BY THE BUILDING CODE, HOISTWAYS SHALL BE PROVIDED WITH MEANS TO PREVENT THE ACCUMULATION OF SMOKE AND HOT GASES. WHERE AIR PRESSURIZATION OF THE HOISTWAY IS UTILIZED AS A MEANS OF SMOKE AND HOT GAS CONTROL, THE AIR SHALL NOT BE INTRODUCED INTO THE HOISTWAY IN SUCH A MANNER AS TO CAUSE ERRATIC OPERATION BY IMPINGEMENT OF TRAVELING CABLES, SELECTOR TAPES, GOVERNOR ROPES, COMPENSATING ROPES, AND OTHER COMPONENTS SENSITIVE TO EXCESSIVE MOVEMENT OR DEFLECTION.

9.) TO ENSURE PROPER EQUIPMENT OPERATION, THE OVERHEAD MACHINERY SPACE AT THE TOP OF THE HOISTWAY SHALL BE PROPERLY VENTED WITH NATURAL OR MECHANICAL MEANS IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) REQUIREMENTS. MAXIMUM ALLOWABLE RELATIVE HUMIDITY TO BE MAINTAINED AT 95% OR LESS NON-CONDENSING AND ALLOWABLE TEMPERATURE BETWEEN 55°F AND 90°F. WHEN REQUIRED, VENTILATION MEANS SHALL BE PROVIDED BY GENERAL CONTRACTOR.

10.) ENTRANCE WALLS ARE TO BE LEFT OPEN UNTIL ELEVATOR EQUIPMENT IS INSTALLED. ADEQUATE SUPPORTS FOR ENTRANCE FRAME AND SILL ASSEMBLIES ARE TO BE LOCATED BY THE ELEVATOR CONTRACTOR AND SUPPLIED BY THE GENERAL CONTRACTOR.

11.) ALL FINISHED FLOORING/GROUTING/TILING IN AND AROUND ELEVATOR ENTRIES SHALL BE COMPLETED AFTER THE INSTALLATION OF THE ENTRANCE FRAME AND SILL ASSEMBLIES. ALL FINISHED FLOORING/GROUTING/TILING SHALL BE INSTALLED BY THE GENERAL CONTRACTOR.

12.) HOIST BEAM(S) AT TOP OF ELEVATOR HOISTWAYS SHALL BE LOCATED AND PROVIDED BY THE ELEVATOR CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.

13.) FOR MACHINE ROOM LESS ELEVATORS, ELEVATOR CONTRACTOR TO COORDINATE AND LOCATE NUMBER LIFE SAFETY HOOK ATTACHMENTS WITHIN THE ELEVATOR HOISTWAY. LIFE SAFETY HOOKS TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

14.) FOR SIDES NOT USED FOR LOADING AND UNLOADING, ALL LEDGES OVER 4" IN ELEVATOR HOISTWAY TO BE BEVELED TO 75 DEGREES.

15.) ALL DIMENSIONS SHOWN ARE INTERIOR CLEAR DIMENSIONS AND ARE REQUIRED. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SURROUNDING WALLS AND CEILINGS.

ELECTRICAL NOTES:

PASSENGER ELEVATOR(S)

1.) THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT & WIRING SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NFPA 70.

2.) CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING IN THE WORK AREA AT NO ADDITIONAL COST TO THE AUTHORITY. POWER SOURCE LOCATION TO BE DETERMINED BY THE AUTHORITY.

3.) ALL DISCONNECTS AND CIRCUIT BREAKERS ARE TO BE LOCKABLE, FUSED AND LABELED WITH APPROPRIATE ELEVATOR EQUIPMENT NO. AND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). DISCONNECTS AND POWER FEEDS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AND TERMINATED AT A POINT OF DISCONNECT.

4.) CONTRACTOR SHALL PROVIDE AND INSTALL IN EVERY CONTROLLER ROOM AND OVERHEAD MACHINERY SPACE (FOR MACHINE ROOM LESS ELEVATORS ONLY) A LIGHT SWITCH AND PERMANENT ELECTRIC LIGHTING. THE ILLUMINATION SHALL NOT BE LESS THAN 20 FTC AT THE FLOOR LEVEL. THE LIGHTING CONTROL SWITCH SHALL BE LOCATED WITHIN EASY REACH OF THE ACCESS TO SUCH ROOMS. WHERE PRACTICAL, THE LIGHT CONTROL SWITCH SHALL BE LOCATED ON THE LOCK JAMB SIDE OF THE ACCESS DOOR.

5.) CONTRACTOR SHALL SUPPLY AND INSTALL IN EVERY CONTROL ROOM AND OVERHEAD MACHINERY SPACE (FOR MACHINE ROOM LESS ELEVATORS ONLY) A DUPLEX RECEPTACLE. ALL 120 VOLT. SINGLE PHASE, 15 AND 20 AMPERE RECEPTACLES MUST BE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTED AS PER NEC/NFPA 70, ARTICLE 620-85.

ELEVATOR CAB NOTES: PASSENGER ELEVATOR(S) iew does not authorize violation 1.) ALL DIMENSIONS SHOWN ARE INTERIOR CLEAR

DIMENSIONS AND ARE REQUIRED.

TO REMAIN ON SAN MATEO CO. BLDG. INSP. DIV.

SITE AT ALL TIMES

JOB COPY



HALL OF JUSTICE **Elevator #3 and #7 Modernization 400 COUNTY CENTER**

REDWOOD CITY, CA 94063

CLIENT County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER **REDWOOD CITY, CA 94063**



➤ VERTICAL TRANSPORTATION Elevator and Escalator Consulting a division of Gannett Fleming, Inc. EXCELLENCE

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957



ISSUED

No. I Description

REV	ISIONS	
No.	Description	Date
\triangle		././

Date

SC ALE AS NOTED	
PROJECT NO.	
ISSUE DATE 100% SET 10/14/21	

ABBREVIATIONS AND GENERAL NOTES

SHEET NO.

SHEET TITLE

EXISTING TECHNICAL DATA SAN MATEO HALL OF JUSTICE ELEVATOR 3 **GENERAL INFORMATION**

SEISMIC CONDITIONING	SEE LOCAL BUILDING CODE
ELEVATOR NO.(S)	3
CLASSIFICATION	PASSENGER
ELEVATOR TYPE	OVERHEAD TRACTION
CAPACITY (LBS.)	4000
SPEED (FPM)	300
MACHINE TYPE	GEARED
OPERATION	SELECTIVE COLLECTIVE
TOTAL TRAVEL	115'-0" APPROX.
DOOR TYPE	SINGLE SPEED CENTER OPENING
DOOR SIZE (WIDTH AND HEIGHT)	3'-6" W X 7'-0" H.
LNDGS./OPNGS. (FRONT)	6
LNDGS./OPNGS. (REAR)	N/A
FLECTRICAL INFOR	RMATION

ELECTRICAL INFORMATION

DISCONNECT CURRENT (AMPS)

CAB FLOORING TYPE

MAINLINE POWER REQUIREMENT (STANDARD)					
VOLTAGE (V)	480				
PHASE (φ)	3				
FREQUENCY (HZ)	VIF				
FULL LOAD CURRENT (AMPS)	VIF				
STARTING CURRENT (AMPS)	VIF				
DISCONNECT CURRENT (AMPS)	VIF				
LOCKED ROTOR (AMPS)	VIF				
MOTOR POWER (HP)	35 HP				
CAB LIGHTING POWER REQUIREMENT					
VOLTAGE (V)	120				
PHASE (φ)	1				
FREQUENCY (HZ)	60				

CAB INFORMATION	REMARKS
CAB TYPE	STEEL SHELL
PLATFORM WIDTH	6'-0"
PLATFORM DEPTH	7'-8"
INTERIOR CAB WIDTH (WALL TO WALL)	5'-8 3/4"
INTERIOR CAB DEPTH (RETURN TO RETURN)	7'-8 3/4"
FLOOR TO CEILING HEIGHT	N/A
OVERALL CAB HEIGHT	8'-0"
CAB DOOR TYPE	STEEL
CAB DOOR SIZE (WIDTH AND HEIGHT)	3'-6" X 7'-0"

VIF

PROPOSED TECHNICAL DATA

SAN MATEO HALL OF JUSTICE ELEVATOR 3

GENERAL INFORMATION

GENERAL INFORMATION					
	PASSENGER ELEVATOR				
SEISMIC CONDITIONING	SEE STRUCTURAL DRAWING				
CLASSIFICATION	PASSENGER CLASS A				
ELEVATOR TYPE	GEARLESS TRACTION				
CAPACITY (LBS.)	4000				
SPEED (FPM)	300				
MACHINE TYPE	GEARLESS ACPM				
OPERATION	SELECTIVE COLLECTIVE				
TOTAL TRAVEL (FTIN.) (APPROX.)	115'-0" APPROX.				
DOOR TYPE	SINGLE SPEED CENTER OPENING				
DOOR SIZE (WIDTH AND HEIGHT) (FTIN.)	3'-6" W X 7'-0" H.				
LNDGS./OPNGS. (FRONT)	6				
LNDGS./OPNGS. (REAR)	0				
ADA COMPLIANT FOR WHEELCHAIR ACCESS	YES				
24" X 76" STRETCHER COMPLIANT (IBC 2000, IBC 2003)	YES				
24" X 84" STRETCHER COMPLIANT (IBC 2006)	YES				
24" X 84" STRETCHER COMPLIANT WITH NOT LESS THAN 5" RADIUS CORNERS (IBC 2009, IBC 2012)	YES				
BUILDING EMERGENCY POWER SUPPLIED TO ELEVATORS	TBD				
OCCUPIED SPACE BELOW PIT	NO				
TRACTION INFO	ORMATION				

POWER UNIT RATING (STARTS PER HOUR) NO. OF ROPES (APPROX.)

CAR AND COUNTERWEIGHT GUIDE TYPES | ELSCO OR APPROVED EQUAL

7002

4800

CONTROLLER INFORMATION								
MANUFACTURER	PER SPECIFICATIONS							
CONTROLLER TYPE	MICROPROCESSOR							
DRIVE TYPE	NON-REGENERATIVE							

CAR TOTAL GROSS LOAD (LBS) (APPROX.)

COUNTERWEIGHT TOTAL GROSS LOAD

MACHINE WEIGHT (LBS.) (APPROX.)

(LBS) (APPROX.)

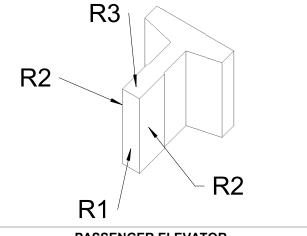
AUXILIARY LOWERING DEVICE CAB INFORMATION

<u> </u>	
CAB TYPE	STEEL SHELL
PLATFORM WIDTH (FTIN.) (APPROX.)	6'-0"
PLATFORM DEPTH (FTIN.) (APPROX.)	7'-8"
INTERIOR CAB WIDTH (FTIN.) (APPROX.)	5'-8 3/4"
INTERIOR CAB DEPTH (RETURN TO REAR WALL) (FTIN.) (APPROX.)	7'-8 3/4"
INTERIOR FINISHED FLOOR TO CEILING HEIGHT (FTIN.) (APPROX.)	N/A
INTERIOR OVERALL CAB HEIGHT (FTIN.) (APPROX.)	8'-0"
CAB FLOORING TYPE	TBD
CAB SUB FLOORING TYPE	(2) 5/8" PLYWOOD WITH FIRESTOP
PLATFORM AND SLING ASSEMBLY	STEEL
CAB DOOR TYPE	SINGLE SPEED CENTER OPENING
CAB DOOR WIDTH (FTIN.) (APPROX.)	3'-6"
CAB DOOR HEIGHT (FTIN.) (APPROX.)	7'-0"
TWO WAY COMMUNICATION TO BE PROVIDED BY CONTRACTOR	YES

ELECTRICAL INFORMATION

MAINLINE POWER REQUIREMENT					
	PASSENGER ELEVATOR				
VOLTAGE (V)	480				
PHASE (φ)	3				
FREQUENCY (HZ)	60				
FULL LOAD CURRENT (AMPS)	43				
STARTING CURRENT (AMPS)	129				
HEAVY DUTY FUSIBLE DISCONNECT WITH TIME DELAY FUSE AND 2 AUX. LEADS, CURRENT (AMPS)	60				
LOCKED ROTOR (AMPS)	218				
MOTOR POWER (HP) (APPROX.)	30				
CAB LIGHTING P	OWER REQUIREMENT				
VOLTAGE (V)	120				
PHASE (φ)	1				
FREQUENCY (HZ)	60				
DISCONNECT CURRENT (AMPS)	30				
CONVENIENCE OUTL	LLER ROOM DUPLEX GFCI ET POWER REQUIREMENT				
VOLTAGE (V)	120				
PHASE (φ)	1				
FREQUENCY (HZ)	60				
DISCONNECT CURRENT (AMPS)	20				
ELEVATOR PIT DUPLEX GFCI CONVENIENCE OUTLET POWER REQUIREMENT					
VOLTAGE (V)	120				
PHASE (φ)	1				
FREQUENCY (HZ)	60				
DISCONNECT CURRENT (AMPS)	20				
	IP PIT SINGLE NON-GFCI ET POWER REQUIREMENT				
VOLTAGE (V)	120				
PHASE (φ)	1				
FREQUENCY (HZ)	60				
DISCONNECT CURRENT (AMPS)	20				
ELEVATOR PIT LIGHTING POWER REQUIREMENT					
VOLTAGE (V)	120				
PHASE (φ)	1				
FREQUENCY (HZ)	60				
DISCONNECT CURRENT (AMPS)	30				

RAIL FORCES DIAGRAM (R1, R2 AND R3)



			PA	SSENGE	R ELEVA	ATOR			
				R1 (Fx-x)		R2 (Fy-y)		R3 (Fz-z)	
				LBS	KG	LBS	KG	LBS	KG
		NON	LOADING	221	LBS X .453	196	LBS X .453	N/A	LBS X .453
<u> </u>	Ş	SEISMIC	RUNNING	221	LBS X .453	196	LBS X .453	N/A	LBS X .453
7	SAFETY APPLICATION N/A SEISMIC 2390	LBS X .453	N/A	LBS X .453	11427	LBS X .453			
		SMIC	2390	LBS X .453	1200	LBS X .453	N/A	LBS X .453	
H	5	NON	LOADING	290	LBS X .453	110	LBS X .453	N/A	LBS X .453
THUILINITERWEIGHT		SEISMIC	RUNNING	290	LBS X .453	110	LBS X .453	N/A	LBS X .453
		SAFETY AI	PPLICATION	N/A	LBS X .453	N/A	LBS X .453	N/A	LBS X .453
		SEI	SMIC	2390	LBS X .453	1200	LBS X .453	N/A	LBS X .453

SEISMIC ZONE: SEE STRUCTURAL DRAWINGS RAIL REACTIONS DO NOT OCCUR SIMULTANEOUSLY. REACTIONS ARE PER EACH RAIL AND ARE AN APPROXIMATE VALUE THE STRESSES IN GUIDE RAIL, OR IN THE RAIL AND ITS REINFORCEMENT, DUE TO THE HORIZONTAL FORCES IMPOSED ON THE RAIL DURING LOADING, UNLOADING, OR RUNNING, CALCULATED WITHOUT IMPACT, SHALL NOT EXCEED 105 MPA (15,000 PSI), BASED UPON THE CLASS OF LOADING, AND THE

DEFLECTION SHALL NOT EXCEED 6 MM (0.25 IN.) CAR AND COUNTERWEIGHT RAIL **BRACKET SPACING**

PASSENGER ELEVATOR				
	MAXIMUM			
BRACKET SPACING (FT. & IN.) (APPROX.)	12'-6"			
FOR BRACKETS, FASTENINGS, AND SUPPORTS THE GUIDE-RAIL BRACKETS, THEIR FASTENINGS, AND SUPPORTS, SUCH AS BUILDING BEAMS AND WALLS, SHALL BE CAPABLE OF RESISTING THE HORIZONTAL FORCES IMPOSED BY THE CLASS OF LOADING WITH A TOTAL DEFLECTION AT TE POINT OF				

SUPPORT NOT IN EXCESS OF 3 MM (0.125 IN).

TRACTION ELEVATOR PIT DIAGRAM (R4 THRU R6)

PASSENGER ELEVATOR

SEISMIC ZONE: SEE STRUCTURAL DRAWINGS BUFFER AND JACK REACTIONS DO NOT OCCUR SIMULTANEOUSLY REACTIONS ARE PER EACH COMPONENT AND ARE AN APPROXIMATE VALUE *GOVERNOR SUPPORT IMPACT R6 OCCURS AT TOP OF HOISTWAY AND IS ATTACHED TO CAR RAIL. WHEN OCCUPIED SPACE IS BELOW PIT, COUNTERWEIGHT SAFETY IS REQUIRED

AND R6 WILL BE ADDED TO CWT. RAIL AT TOP OF HOISTWAY. CAD DIJECED CLIDDODT IMDACTS (DA)

CAR BUFFER S	SUPPORT IMI	PACTS (R4)			
	PASSENGER	RELEVATOR			
CAR	R4				
	LBS.	KG.			
TOTAL PER EACH STAND (APPROX.)	12140	LBS X .453			
TOTAL COMBINED (APPROX.)	24280	LBS X .453			
LOADING SHOWN SHALL BE CONSIDERED APPROXIMATE DYNAMIC LOADING					

COUNTERWEIGHT BUFFER SUPPORT IMPACTS (R5)

AND HAS BEEN DOUBLED FOR IMPACT

OOLINITEDIMEIOLIT		PASSENGER	RELEVATOR				
	COUNTERWEIGHT	R5					
		LBS.	KG.				
	TOTAL PER EACH STAND (APPROX.)	19120	LBS X .453				
	TOTAL COMBINED (APPROX.)	19120	LBS X .453				
	LOADING SHOWN SHALL BE CONSIDERED APPROXIMATE DYNAMIC LOADING AND HAS BEEN DOUBLED FOR IMPACT						

GOVERNOR SUPPORT IMPACTS (R6)

GOVERNOR	PASSENGER ELEVATOR R6					
STATIC FORCE (LBS.) (APPROX.)	600	LBS X .453				
DYNAMIC FORCE (LBS.) (APPROX.)	1100	LBS X .453				
SAFETY SETTING FORCE (LBS.) (APPROX.)	11427	LBS X .453				

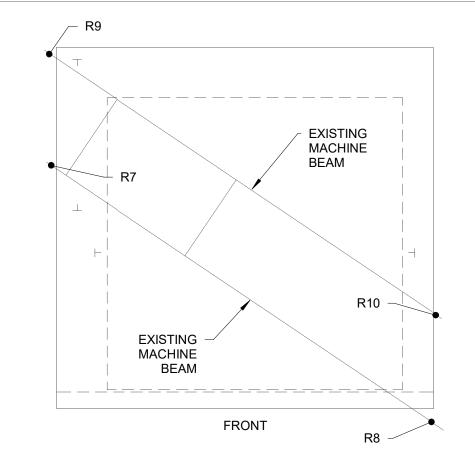
*GOVERNOR SUPPORT IMPACT R6 OCCURS AT TOP OF HOISTWAY AND IS ATTACHED TO CAR RAIL. WHEN OCCUPIED SPACE IS BELOW PIT, COUNTERWEIGHT SAFETY IS REQUIRED AND R6 WILL BE ADDED TO CWT. RAIL AT TOP OF HOISTWAY.

COOLING AND VENTILATION

	PASSENGER ELEVATOR			
	MINIMUM	MAXIMUM		
MACHINE HEATING OUTPUT (BTU'S/HR) (BASED ON 480 V MAINLINE AND REGENERATIVE DRIVE CONTROLLER)	6878	8254		
CONTROLLER ROOM HEATING OUTPUT (BTU'S/HR) (BASED ON 480 V MAINLINE AND REGENERATIVE DRIVE CONTROLLER)	5000	5500		
ISOLATION TRANSFORMER (ONLY FOR 240V AND LESS) (LOCATED IN CONTROL ROOM) HEATING OUTPUT (BTU/HR) (APPROX.)	-	-		
TOTAL HEATING OUTPUT (BTU'S/HR) (APPROX.)	11878	13754		

BTU'S/HOUR SHOWN ARE PER EACH ELEVATOR. CONTROLLER ROOM TEMPERATURE TO BE MAINTAINED BETWEEN 55 TO 90 DEGREES FAHRENHEIT. RELATIVE HUMIDITY TO BE MAINTAINED AT 95% OR LESS NON-CONDENSING. CONTROL ROOM SHALL BE PROVIDED WITH NATURAL OR MECHANICAL MEANS TO KEEP THE AMBIENT AIR TEMPERATURE AND HUMIDITY IN THE RANGE SHOWN TO ENSURE NORMAL OPERATION OF THE ELEVATOR. THE TEMPERATURE AND HUMIDITY RANGE SHALL BE PERMANENTLY POSTED IN THE CONTROLLER ROOM.

OVERHEAD MACHINERY REACTION LOADING DIAGRAM (R6 THRU R11)



1.) DETAIL SHOWN IS FOR REFERENCES PURPOSES ONLY. 2.) TYPE OF CONNECTION, CLIP SIZE, MACHINE BEAM SIZE, WELDING AND BOLTING METHODS TO BE COORDINATED BY ELEVATOR CONTRACTOR. 3.) BEAM SEATS TO BE DESIGNED BY STRUCTURAL ENGINEER. STRUCTURAL ENGINEER TO REVIEW APPROXIMATE LOADING BELOW AT TIME OF CONTRACTOR SUBMITTAL, STRUCTURAL ENGINEER TO REVIEW ELEVATOR CONTRACTORS BEAM LOADING REQUIREMENTS. 4.) OTHER BEAM MOUNTING OPTIONS ARE AVAILABLE. THESE OPTIONS ARE SUBJECT TO STRUCTURAL REVIEW AND CONFIRMATION FROM THE ELEVATOR CONTRACTOR.

5.) REACTIONS ARE INTERCHANGABLE BASED ON HAND OF MACHINE AND ORIENTATION WITHIN HOISTWAY.

DASSENCED ELEVATOR

PASSENGER ELEVATOR								
	R	.7	R	18	R9		R10	
	LBS	KG	LBS	KG	LBS	KG	LBS	KG
REACTION LOADS	14000	LBS X .453	7000	LBS X .453	10500	LBS X .453	10500	LBS X .453

ALL DYNAMIC LOADS SHOWN HAVE BEEN DOUBLED FOR IMPACT DYNAMIC/LIVE LOADING = STRESS ALLOW = 80% OF THE PERMITTED STRESSES FOR

STATIC CONDITION THE ALLOWABLE DEFLECTIONS OF MACHINERY AND SHEAVE BEAMS AND THEIR IMMEDIATE SUPPORTS UNDER STATIC LOAD SHALL NOT EXCEED 1/1666 OF THE SPAN TYPE OF CONNECTION, MACHINE BEAM SIZE, WELDING AND BOLTING METHODS TO BE COORDINATED BY ELEVATOR CONTRACTOR.

ELEVATOR CONTRACTOR SHALL SUBMIT ALL BEAM LOADING CALCULATIONS AND LOCATIONS FOR STRUCTURAL REVIEW.

MACHINE ROOM WEIGHTS

<u> </u>					
WEIGHT OF MACHINE AND MOTOR (LBS.) (APPROX.)	4800				
WEIGHT OF CONTROLLER (LBS.) (APPROX.)	1000				
MISCELLEANEOUS	100				
TOTAL WEIGHT (LBS.) (APPROX.)	5900				



HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER REDWOOD CITY, CA 94063

County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER **REDWOOD CITY, CA 94063**



TRANSPORTATION Elevator and Escalator Consulting EXCELLENCE a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957



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ELEVATOR 3 TECHNICAL DATA

SHEET NO.

VT002

100% SET 10/14/21

SHEET TITLE

REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

Jun 03 2022

SAN MATEO CO. BLDG. INSP. DIV.

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EXISTING TECHNICAL DATA SAN MATEO HALL OF JUSTICE ELEVATOR 7 **GENERAL INFORMATION** SEISMIC CONDITIONING SEE LOCAL BUILDING CODE **ELEVATOR NO.(S)** CLASSIFICATION **PASSENGER ELEVATOR TYPE** OVERHEAD TRACTION CAPACITY (LBS.) 3500 SPEED (FPM) 200 MACHINE TYPE GEARED SELECTIVE COLLECTIVE OPERATION TOTAL TRAVEL 49'-0" APPROX. DOOR TYPE TWO SPEED SIDE SLIDE DOOR SIZE (WIDTH AND HEIGHT) 3'-10" W X 7'-0" H. LNDGS./OPNGS. (FRONT) LNDGS./OPNGS. (REAR) **ELECTRICAL INFORMATION** MAINLINE POWER REQUIREMENT (STANDARD) VOLTAGE (V) PHASE (φ) FREQUENCY (HZ) **FULL LOAD CURRENT (AMPS)** STARTING CURRENT (AMPS) DISCONNECT CURRENT (AMPS) LOCKED ROTOR (AMPS) MOTOR POWER (HP) **CAB LIGHTING POWER REQUIREMENT** VOLTAGE (V) PHASE (φ) FREQUENCY (HZ) DISCONNECT CURRENT (AMPS)

REMARKS

STEEL SHELL

5'-2 1/2"

7'-5"

4'-9"

7'-1 1/4"

N/A

7'-4"

STEEL

3'-10" X 7'-0"

CAB INFORMATION

INTERIOR CAB WIDTH (WALL TO WALL)

CAB DOOR SIZE (WIDTH AND HEIGHT)

INTERIOR CAB DEPTH (RETURN TO RETURN)

CAB TYPE

PLATFORM WIDTH

PLATFORM DEPTH

FLOOR TO CEILING HEIGHT

OVERALL CAB HEIGHT

CAB FLOORING TYPE

CAB DOOR TYPE

	RMATION
	PASSENGER ELEVATOR
SEISMIC CONDITIONING	SEE STRUCTURAL DRAWINGS
CLASSIFICATION	PASSENGER CLASS A
ELEVATOR TYPE	GEARLESS TRACTION
CAPACITY (LBS.)	3500
SPEED (FPM)	200
MACHINE TYPE	GEARLESS ACPM
OPERATION	SELECTIVE COLLECTIVE
TOTAL TRAVEL (FTIN.) (APPROX.)	49'-0" APPROX.
DOOR TYPE	TWO SPEED SIDE SLIDE
DOOR SIZE (WIDTH AND HEIGHT) (FTIN.)	3'-10" W X 7'-0" H.
LNDGS./OPNGS. (FRONT)	4
LNDGS./OPNGS. (REAR)	0
ADA COMPLIANT FOR WHEELCHAIR	-
ACCESS	YES
24" X 76" STRETCHER COMPLIANT (IBC 2000, IBC 2003)	YES
24" X 84" STRETCHER COMPLIANT (IBC 2006)	YES
24" X 84" STRETCHER COMPLIANT WITH NOT LESS THAN 5" RADIUS CORNERS (IBC 2009, IBC 2012)	YES
BUILDING EMERGENCY POWER SUPPLIED TO ELEVATORS	TBD
OCCUPIED SPACE BELOW PIT	NO
TRACTION INFO	ORMATION
CAR TOTAL GROSS LOAD (LBS) (APPROX.)	10160
COUNTERWEIGHT TOTAL GROSS LOAD (LBS) (APPROX.)	8060
MACHINE WEIGHT (LBS.) (APPROX.)	4800
POWER UNIT RATING (STARTS PER HOUR)	80
NO. OF ROPES (APPROX.)	8
CAR AND COUNTERWEIGHT GUIDE TYPES	ELSCO OR APPROVED EQUA
CONTROLLER IN	FORMATION
MANUFACTURER	PER SPECIFICATIONS
CONTROLLER TYPE	MICROPROCESSOR
DRIVE TYPE	NON-REGENERATIVE
AUXILIARY LOWERING DEVICE	TBD
CAB INFORM	
CAB TYPE	
UAD TIPE	STEEL SHELL
PLATFORM WIDTH (FTIN.) (APPROX.)	5'-2 1/2"
PLATFORM DEPTH (FTIN.) (APPROX.)	7'-5"
INTERIOR CAB WIDTH (FTIN.) (APPROX.)	4'-9"
INTERIOR CAB DEPTH (RETURN TO REAR WALL) (FTIN.) (APPROX.)	7'-1 1/4"
INTERIOR FINISHED FLOOR TO CEILING HEIGHT (FTIN.) (APPROX.)	N/A
INTERIOR OVERALL CAB HEIGHT (FTIN.)	7'-4"

CAB FLOORING TYPE

CAB DOOR TYPE

CAB SUB FLOORING TYPE

PLATFORM AND SLING ASSEMBLY

CAB DOOR WIDTH (FT.-IN.) (APPROX.)

CAB DOOR HEIGHT (FT.-IN.) (APPROX.)

TWO WAY COMMUNICATION TO BE

PROVIDED BY CONTRACTOR

TBD

(2) 5/8" PLYWOOD WITH

FIRESTOP

STEEL
TWO SPEED SIDE

SLIDE OPENING

3'-10"

7'-0"

YES

PROPOSED TECHNICAL DATA

ELECTRICAL INFORMATION PASSENGER ELEVATOR VOLTAGE (V) PHASE (φ) FREQUENCY (HZ) FULL LOAD CURRENT (AMPS) STARTING CURRENT (AMPS) 270 HEAVY DUTY FUSIBLE DISCONNECT WITH TIME DELAY FUSE AND 2 AUX. 125 LEADS, CURRENT (AMPS) LOCKED ROTOR (AMPS) MOTOR POWER (HP) (APPROX.) CAB LIGHTING POWER REQUIREMENT VOLTAGE (V) PHASE (φ) FREQUENCY (HZ) **DISCONNECT CURRENT (AMPS)** ELEVATOR CONTROLLER ROOM DUPLEX GFCI CONVENIENCE OUTLET POWER REQUIREMENT VOLTAGE (V) PHASE (φ) FREQUENCY (HZ) DISCONNECT CURRENT (AMPS) ELEVATOR PIT DUPLEX GFCI CONVENIENCE OUTLET POWER REQUIREMENT VOLTAGE (V) PHASE (φ) FREQUENCY (HZ) DISCONNECT CURRENT (AMPS) ELEVATOR PIT SUMP PIT SINGLE NON-GFCI CONVENIENCE OUTLET POWER REQUIREMENT VOLTAGE (V) PHASE (φ) FREQUENCY (HZ) DISCONNECT CURRENT (AMPS) **ELEVATOR PIT LIGHTING POWER REQUIREMENT**

RAIL FORCES DIAGRAM (R1, R2 AND R3) R3 R2 R1 PASSENGER ELEVATOR

VOLTAGE (V)

FREQUENCY (HZ)

DISCONNECT CURRENT (AMPS)

PHASE (φ)

			[A	SSLIVE		AI OIX			
				R1 (Fx-x)	R2 (Fy-y)	R3 (I	=z-z)
				LBS	KG	LBS	KG	LBS	KG
		NON	LOADING	167	LBS X .453	166	LBS X .453	N/A	LBS X .453
	Ř	SEISMIC	RUNNING	167	LBS X .453	166	LBS X .453	N/A	LBS X .453
CAR	SAFETY APPLICATION		N/A	LBS X .453	N/A	LBS X .453	11150	LBS X .453	
		SEI	SMIC	2720	LBS X .453	1360	LBS X .453	N/A	LBS X .453
	GHT	NON	LOADING	330	LBS X .453	120	LBS X .453	N/A	LBS X .453
	COUNTERWEIGHT	SEISMIC	RUNNING	330	LBS X .453	120	LBS X .453	N/A	LBS X .453
	F F	SAFETY AI	PPLICATION	N/A	LBS X .453	N/A	LBS X .453	N/A	LBS X .453
	COU	SEI	SMIC	2720	LBS X .453	1360	LBS X .453	N/A	LBS X .453

SEISMIC ZONE: SEE STRUCTURAL DRAWINGS

RAIL REACTIONS DO NOT OCCUR SIMULTANEOUSLY. REACTIONS ARE PER EACH RAIL AND ARE AN APPROXIMATE VALUE

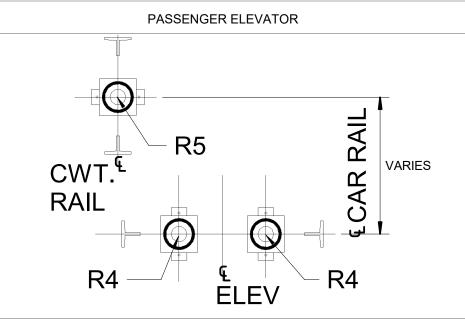
THE STRESSES IN GUIDE RAIL, OR IN THE RAIL AND ITS REINFORCEMENT, DUE TO THE HORIZONTAL FORCES IMPOSED ON THE RAIL DURING LOADING, UNLOADING, OR RUNNING, CALCULATED WITHOUT IMPACT, SHALL NOT EXCEED 105 MPA (15,000 PSI), BASED UPON THE CLASS OF LOADING, AND THE DEFLECTION SHALL NOT EXCEED 6 MM (0.25 IN.)

CAR AND COUNTERWEIGHT RAIL BRACKET SPACING

PASSENGER ELEVATOR MAXIMUM

	_
BRACKET SPACING (FT. & IN.) (APPROX.)	12'-6"
FOR BRACKETS, FASTENINGS, AND SUPPORTS THE	GUIDE-RAIL BRACKETS,
THEIR FASTENINGS, AND SUPPORTS, SUCH AS BUILI	DING BEAMS AND WALLS,
SHALL BE CAPABLE OF RESISTING THE HORIZONTAL	. FORCES IMPOSED BY
THE CLASS OF LOADING WITH A TOTAL DEFLECTION	AT TE POINT OF
SUPPORT NOT IN EXCESS OF 3 MM (0.125 IN).	

TRACTION ELEVATOR PIT DIAGRAM (R4 THRU R6)



SEISMIC ZONE: SEE STRUCTURAL DRAWINGS
BUFFER AND JACK REACTIONS DO NOT OCCUR SIMULTANEOUSLY
REACTIONS ARE PER EACH COMPONENT AND ARE AN APPROXIMATE VALUE
*GOVERNOR SUPPORT IMPACT R6 OCCURS AT TOP OF HOISTWAY AND IS
ATTACHED TO CAR RAIL.

WHEN OCCUPIED SPACE IS BELOW PIT, COUNTERWEIGHT SAFETY IS REQUIRED AND R6 WILL BE ADDED TO CWT. RAIL AT TOP OF HOISTWAY.

CAR BUFFER S	SUPPORT IMI	PACTS (R4)		
OAD	PASSENGER	RELEVATOR		
CAR	R4			
	LBS.	KG.		
TOTAL PER EACH STAND (APPROX.)	11410	LBS X .453		
TOTAL COMBINED (APPROX.)	22820	LBS X .453		
LOADING SHOWN SHALL BE CONSIDERED APPROXIMATE DYNAMIC LOADING AND HAS BEEN DOUBLED FOR IMPACT				

COUNTERWEIGHT BUFFER SUPPORT IMPACTS (R5)

00111175714510117	PASSENGER	RELEVATOR
COUNTERWEIGHT	F	R5
	LBS.	KG.
TOTAL PER EACH STAND (APPROX.)	18870	LBS X .453
TOTAL COMBINED (APPROX.)	18870	LBS X .453
OADING SHOWN SHALL BE CONS	SIDERED APPROXIMATE	DYNAMIC LOADING

AND HAS BEEN DOUBLED FOR IMPACT

GOVERNOR SUPPORT IMPACTS (R6)

PASSENGER ELEVATOR

	PASSENGER	RELEVATOR
GOVERNOR	F	R6
	LBS.	KG.
TATIC FORCE (LBS.) (APPROX.)	600	LBS X .453
YNAMIC FORCE (LBS.) (APPROX.)	1100	LBS X .453
AFETY SETTING FORCE (LBS.) APPROX.)	11150	LBS X .453

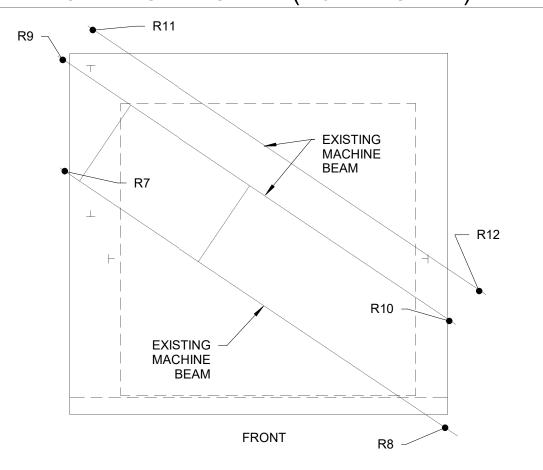
*GOVERNOR SUPPORT IMPACT R6 OCCURS AT TOP OF HOISTWAY AND IS ATTACHED TO CAR RAIL. WHEN OCCUPIED SPACE IS BELOW PIT, COUNTERWEIGHT SAFETY IS REQUIRED AND R6 WILL BE ADDED TO CWT. RAIL AT TOP OF HOISTWAY.

COOLING AND VENTILATION PASSENGER ELEVATOR MINIMUM MAXIMUM

	IVIIIVIIVIOIVI	IVIAXIIVIOIVI
MACHINE HEATING OUTPUT (BTU'S/HR) (BASED ON 480 V MAINLINE AND REGENERATIVE DRIVE CONTROLLER)	4012	4815
CONTROLLER ROOM HEATING OUTPUT (BTU'S/HR) (BASED ON 480 V MAINLINE AND REGENERATIVE DRIVE CONTROLLER)	5000	5500
ISOLATION TRANSFORMER (ONLY FOR 240V AND LESS) (LOCATED IN CONTROL ROOM) HEATING OUTPUT (BTU/HR) (APPROX.)	-	-
TOTAL HEATING OUTPUT (BTU'S/HR) (APPROX.)	9012	10315

BTU'S/HOUR SHOWN ARE PER EACH ELEVATOR. CONTROLLER ROOM TEMPERATURE TO BE MAINTAINED BETWEEN 55 TO 90 DEGREES FAHRENHEIT. RELATIVE HUMIDITY TO BE MAINTAINED AT 95% OR LESS NON-CONDENSING. CONTROL ROOM SHALL BE PROVIDED WITH NATURAL OR MECHANICAL MEANS TO KEEP THE AMBIENT AIR TEMPERATURE AND HUMIDITY IN THE RANGE SHOWN TO ENSURE NORMAL OPERATION OF THE ELEVATOR. THE TEMPERATURE AND HUMIDITY RANGE SHALL BE PERMANENTLY POSTED IN THE CONTROLLER ROOM.

OVERHEAD MACHINERY REACTION LOADING DIAGRAM (R6 THRU R11)



NOTES:
1.) DETAIL SHOWN IS FOR REFERENCES PURPOSES ONLY.
2.) TYPE OF CONNECTION, CLIP SIZE, MACHINE BEAM SIZE, WELDING AND BOLTING METHODS TO BE COORDINATED BY ELEVATOR CONTRACTOR.
3.) BEAM SEATS TO BE DESIGNED BY STRUCTURAL ENGINEER.
STRUCTURAL ENGINEER TO REVIEW APPROXIMATE LOADING BELOW AT TIME OF CONTRACTOR SUBMITTAL, STRUCTURAL ENGINEER TO REVIEW ELEVATOR CONTRACTORS BEAM LOADING REQUIREMENTS.
4.) OTHER BEAM MOUNTING OPTIONS ARE AVAILABLE. THESE OPTIONS ARE SUBJECT TO STRUCTURAL REVIEW AND CONFIRMATION FROM THE ELEVATOR CONTRACTOR.
5.) REACTIONS ARE INTERCHANGABLE BASED ON HAND OF MACHINE AND ORIENTATION WITHIN HOISTWAY.

		PAS	SENGER	ELEVATO	OR			
	R	.7	F	88	R	19	R	10
	LBS	KG	LBS	KG	LBS	KG	LBS	KG
REACTION LOADS	11600	LBS X .453	5800	LBS X .453	8650	LBS X .453	8700	LBS X .453
	R	11	R	12	R	13	R	14
	LBS	KG	LBS	KG	LBS	KG	LBS	KG
REACTION LOADS	4000	LBS X	3900	LBS X	N/A	LBS X	N/A	LBS X

ALL DYNAMIC LOADS SHOWN HAVE BEEN DOUBLED FOR IMPACT

DYNAMIC/LIVE LOADING = STRESS ALLOW = 80% OF THE PERMITTED STRESSES FOR STATIC CONDITION

THE ALLOWABLE DEFLECTIONS OF MACHINERY AND SHEAVE BEAMS AND THEIR IMMEDIATE SUPPORTS UNDER STATIC LOAD SHALL NOT EXCEED 1/1666 OF THE SPAN.

TYPE OF CONNECTION, MACHINE BEAM SIZE, WELDING AND BOLTING METHODS TO BE COORDINATED BY ELEVATOR CONTRACTOR.

ELEVATOR CONTRACTOR SHALL SUBMIT ALL BEAM LOADING CALCULATIONS AND LOCATIONS FOR STRUCTURAL REVIEW.

MACHINE ROOM WEIGHTS MACHINE AND MOTOR MACHINE AND MOTOR MACHINE ROOM WEIGHTS

WEIGHT OF MACHINE AND MOTOR (LBS.) (APPROX.)	4800
WEIGHT OF CONTROLLER (LBS.) (APPROX.)	1000
MISCELLEANEOUS	100
TOTAL WEIGHT (LBS.) (APPROX.)	5900



HALL OF JUSTICE
Elevator #3 and #7 Modernization
400 COUNTY CENTER
REDWOOD CITY, CA 94063

CLIENT County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

VTX

TRANSPORTATION Elevator and Escalator Consulting a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957



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ELEVATOR 7 TECHNICAL DATA

SHEET NO.

VT003

100% SET 10/14/21

SHEET TITLE

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.

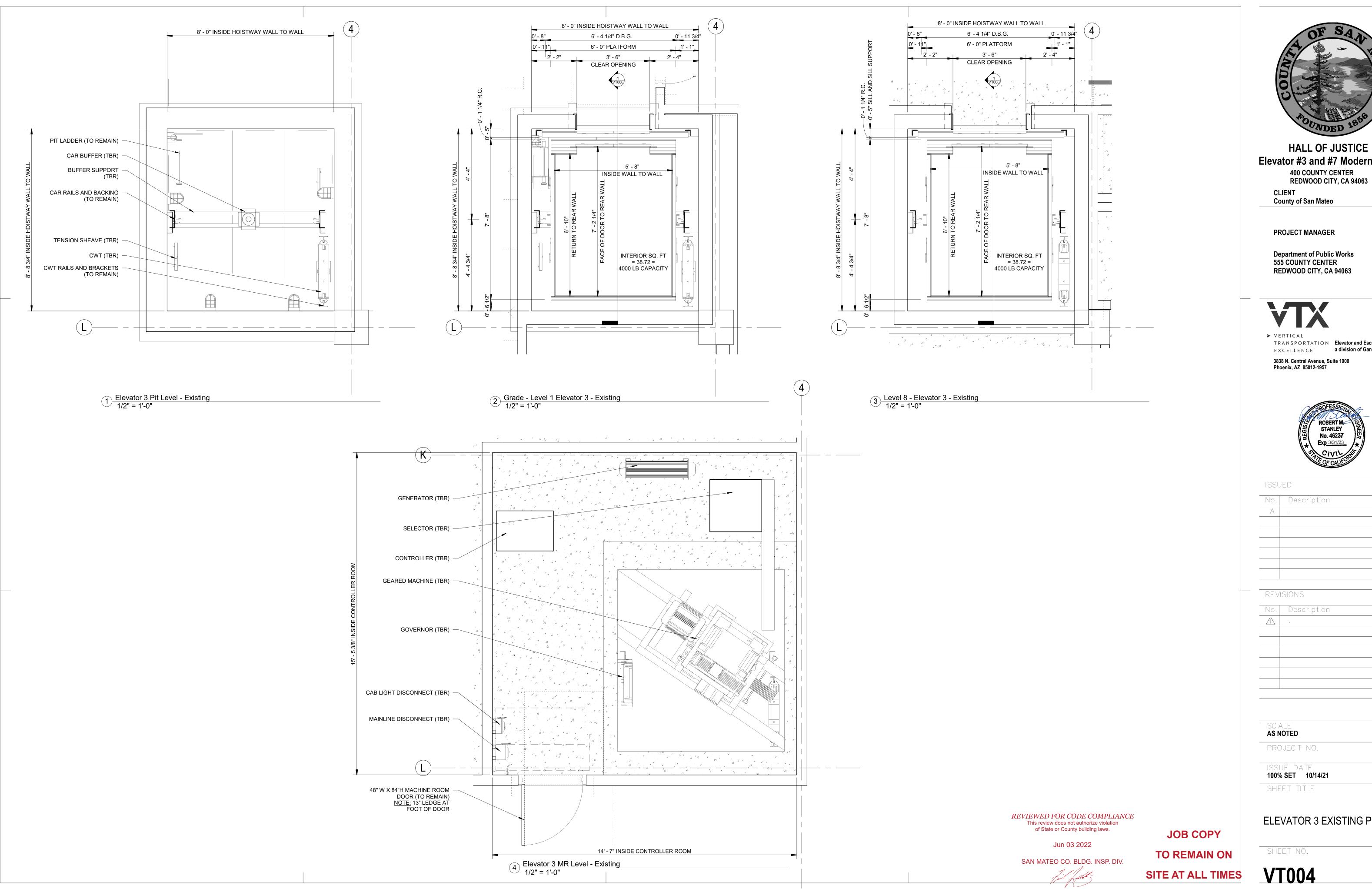
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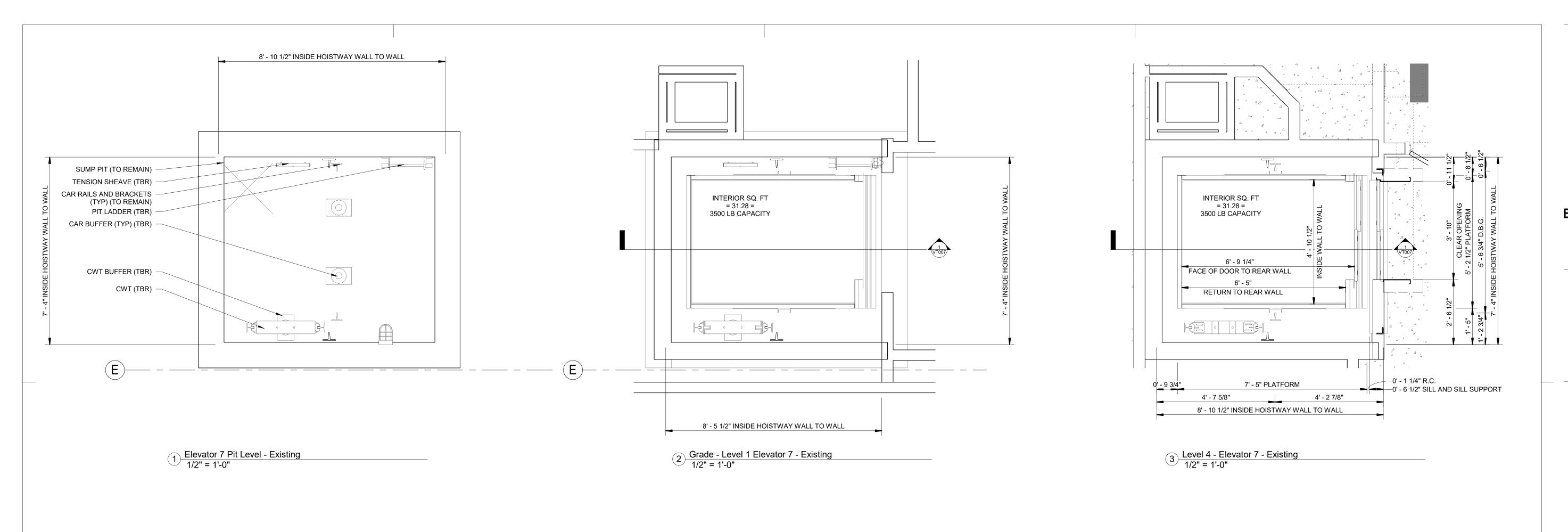
HALL OF JUSTICE Elevator #3 and #7 Modernization

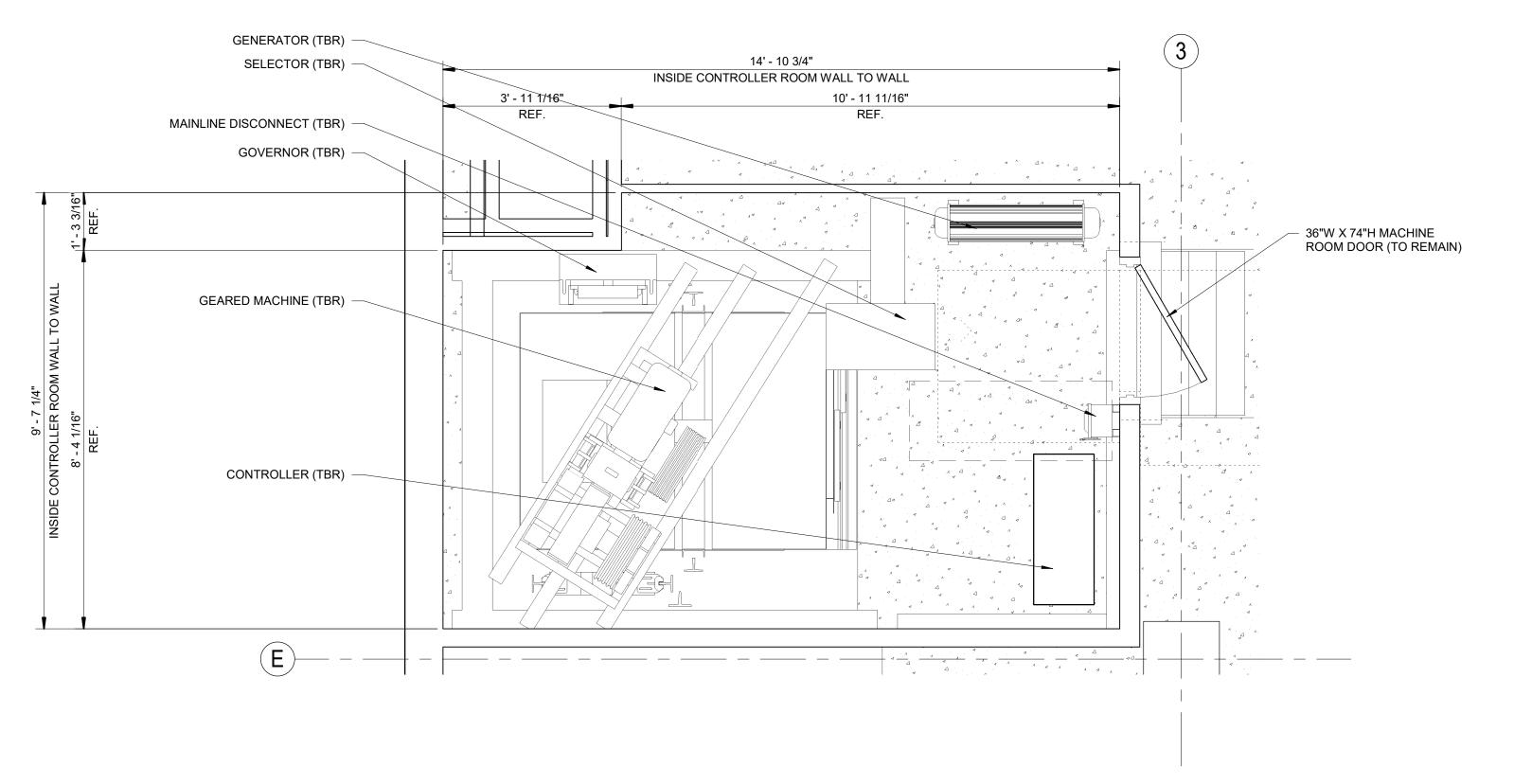
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ELEVATOR 3 EXISTING PLANS





Elevator 7 MR Level - Existing 1/2" = 1'-0"

REVIEWED FOR CODE COMPLIANCE
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of State or County building laws.

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HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER REDWOOD CITY, CA 94063

CLIENT County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063



➤ VERTICAL

TRANSPORTATION Elevator and Escalator Consulting

EXCELLENCE a division of Gannett Fleming, Inc.

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ELEVATOR 7 EXISTING PLANS

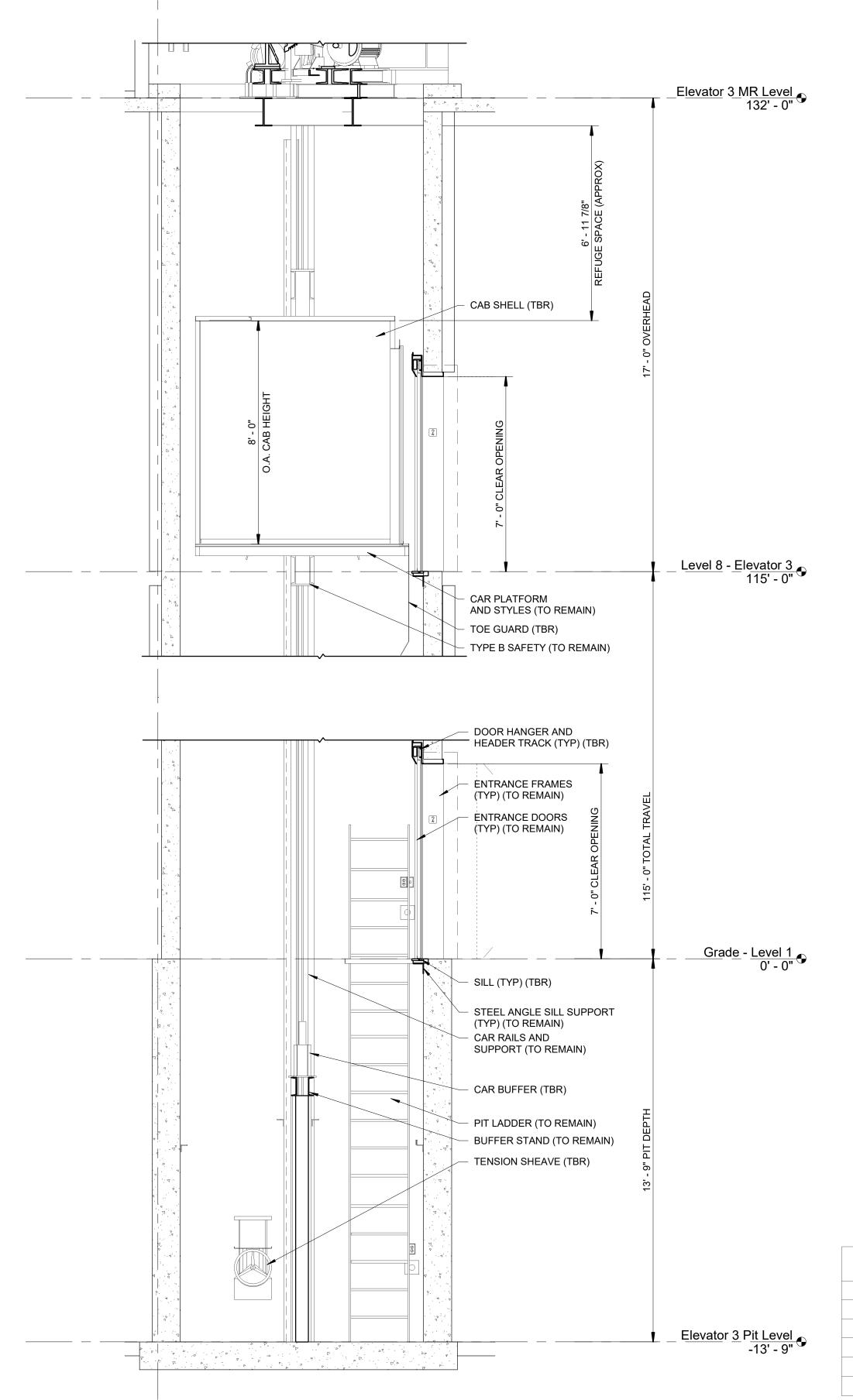
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VT005

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SHEET TITLE





ELEVATOR 3 TRAVEL		
LEVEL 1	15'-0"	
LEVEL 2	34'-0"	
LEVEL 4	32'-0"	
LEVEL 6	17'-0"	
LEVEL 7	17'-0"	
LEVEL 8	TERMINAL FLOOR	

1 Elevator 3 - Existing 3/8" = 1'-0"



Jun 03 2022

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HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER REDWOOD CITY, CA 94063

CLIENT County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

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➤ VERTICAL
TRANSPORTATION

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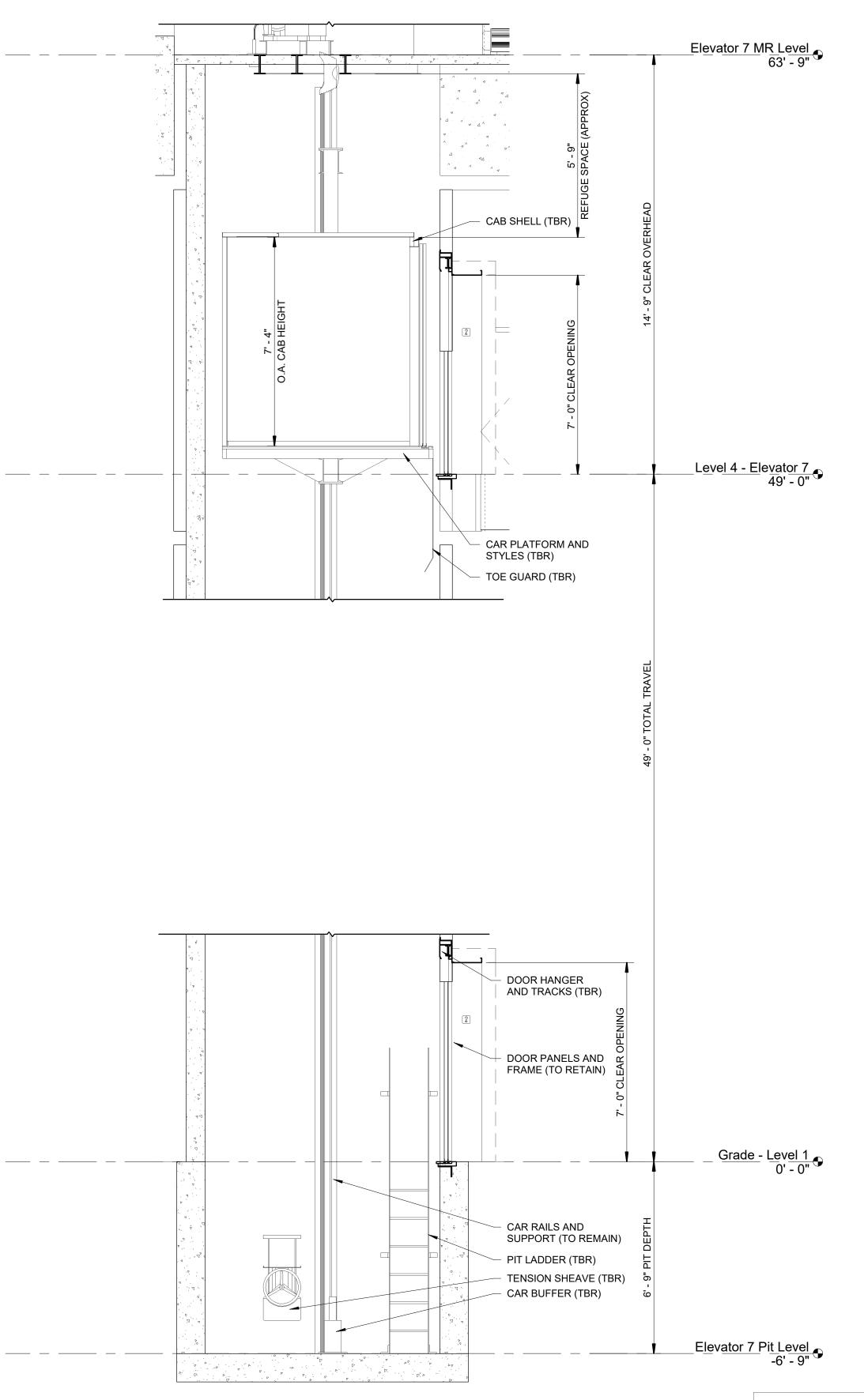
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ISSUE DATE
100% SET 10/14/21
SHEET TITLE

ELEVATOR 3 EXISTING SECTION THRU HOISTWAY

SHEET NO.

VT006



1 Elevator 7 - Existing 3/8" = 1'-0"

ELEVATOR 7 TRAVEL		
LEVEL 1	15'-0"	
LEVEL 2	17'-0"	
LEVEL 3	17'-0"	
LEVEL 4	TERMINAL FLOOR	



HALL OF JUSTICE Elevator #3 and #7 Modernization 400 COUNTY CENTER REDWOOD CITY, CA 94063

CLIENT County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER **REDWOOD CITY, CA 94063**

ISSUED

➤ VERTICAL

TRANSPORTATION Elevator and Escalator Consulting a division of Gannett Fleming, Inc.

3838 N. Central Avenue, Suite 1900 Phoenix, AZ 85012-1957



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SC ALE **AS NOTED**

PROJECT NO.

100% SET 10/14/21

SHEET TITLE

ELEVATOR 7 EXISTING SECTION THRU HOISTWAY

SHEET NO.

VT007

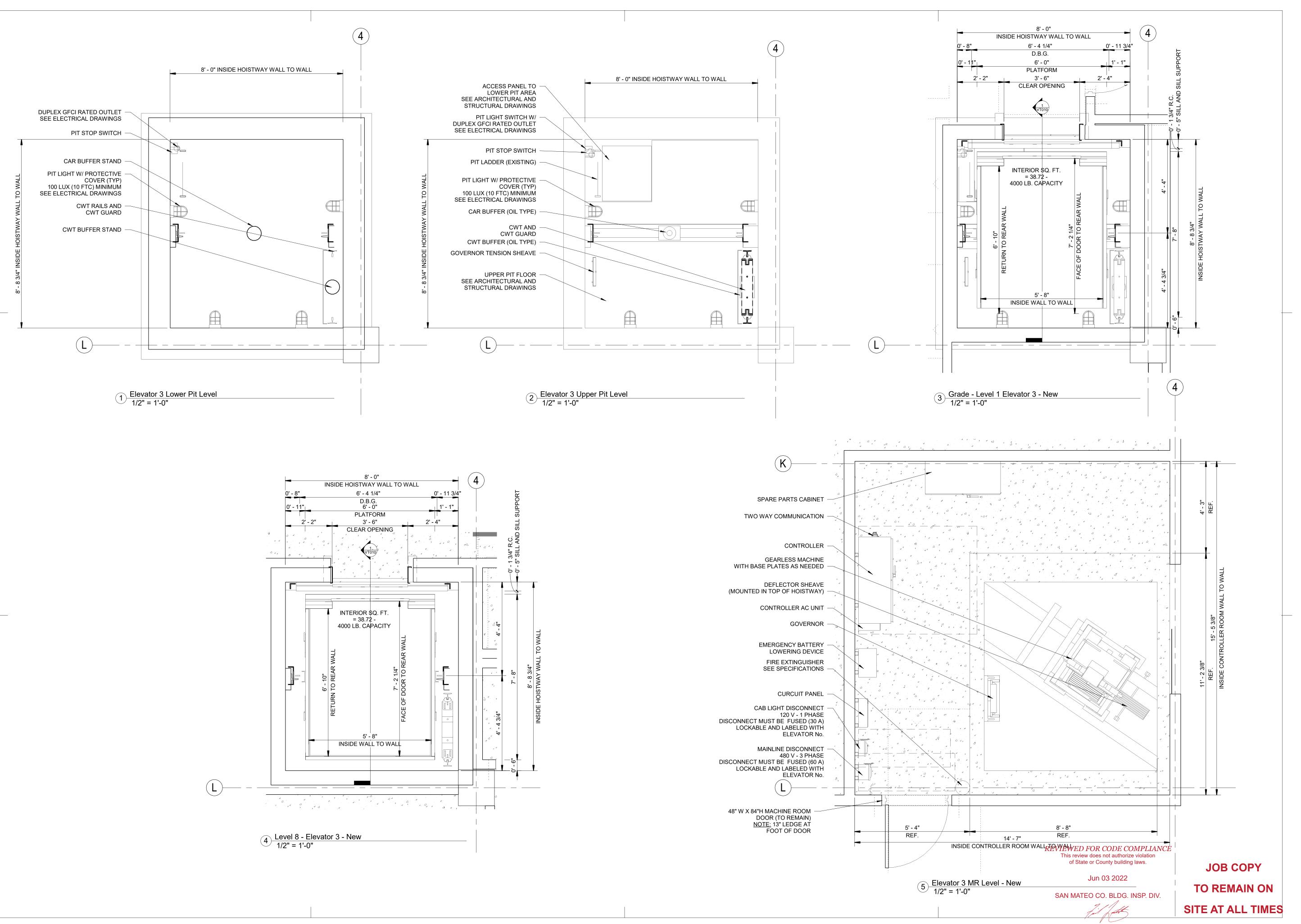
REVIEWED FOR CODE COMPLIANCE

This review does not authorize violation of State or County building laws.

Jun 03 2022

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JOB COPY TO REMAIN ON SITE AT ALL TIMES





CLIENT
County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

VTX

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TRANSPORTATION Elevator and Escalator Consulting
EXCELLENCE a division of Gannett Fleming, Inc.

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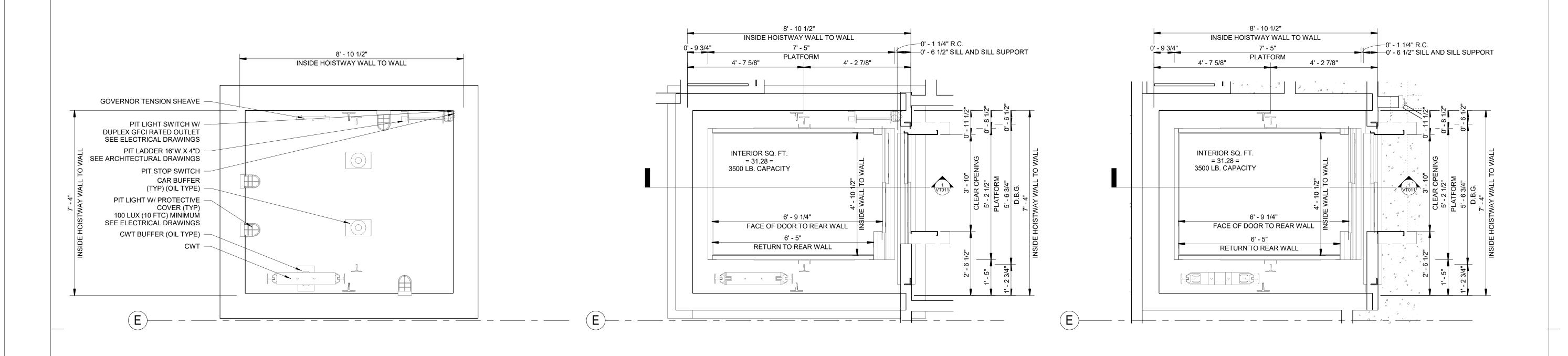
ELEVATOR 3 NEW PLANS

SHEET NO.

VT008

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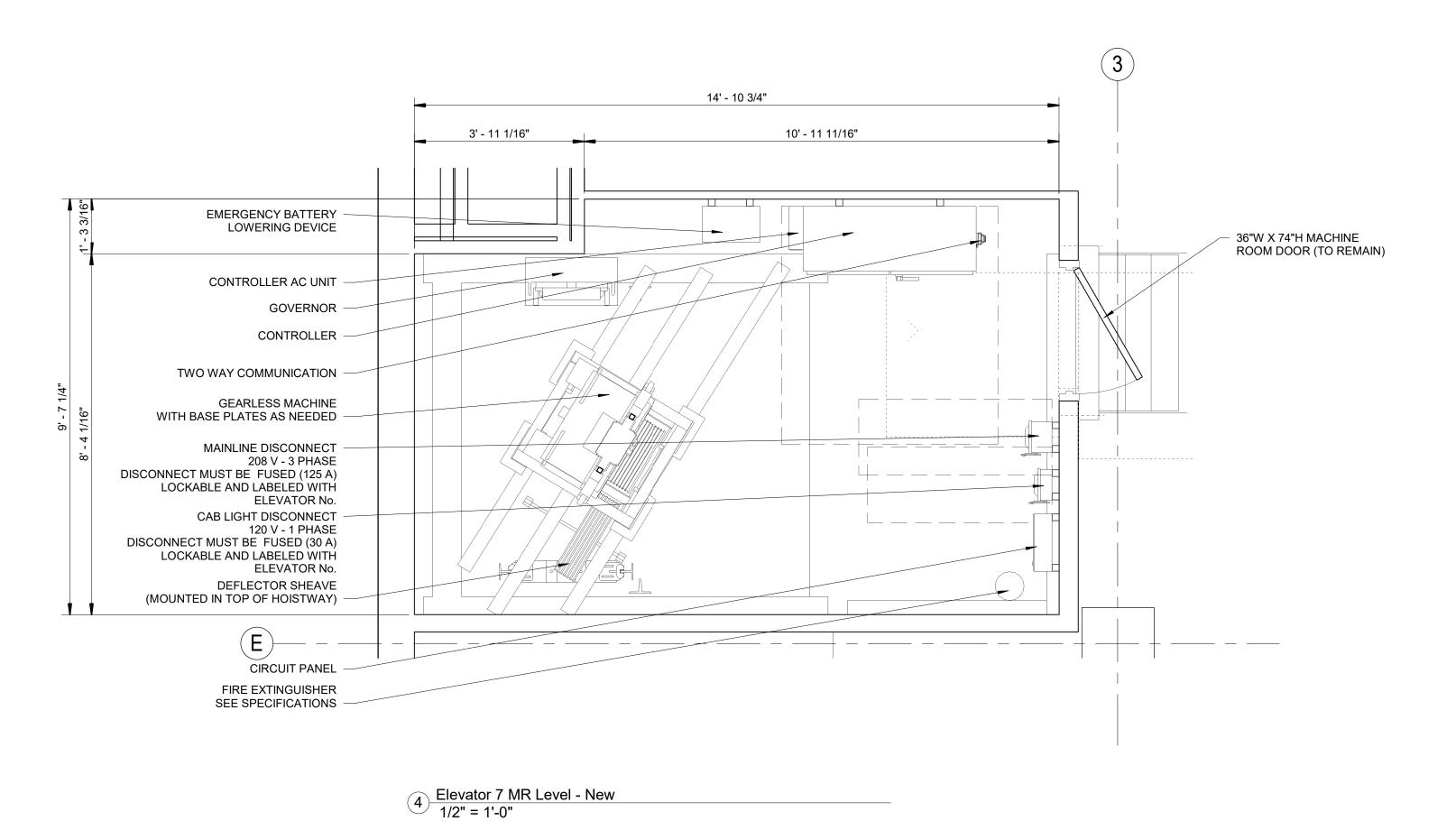
SHEET TITLE



1) Elevator 7 Pit Level - New 1/2" = 1'-0"

2 Grade - Level 1 Elevator 7 - New 1/2" = 1'-0"

3 Level 4 - Elevator 7 - New 1/2" = 1'-0"



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County of San Mateo

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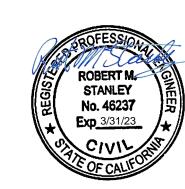
Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

VTX

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TRANSPORTATION Elevator and Escalator Consulting
EXCELLENCE a division of Gannett Fleming, Inc.

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ELEVATOR 7 NEW PLANS

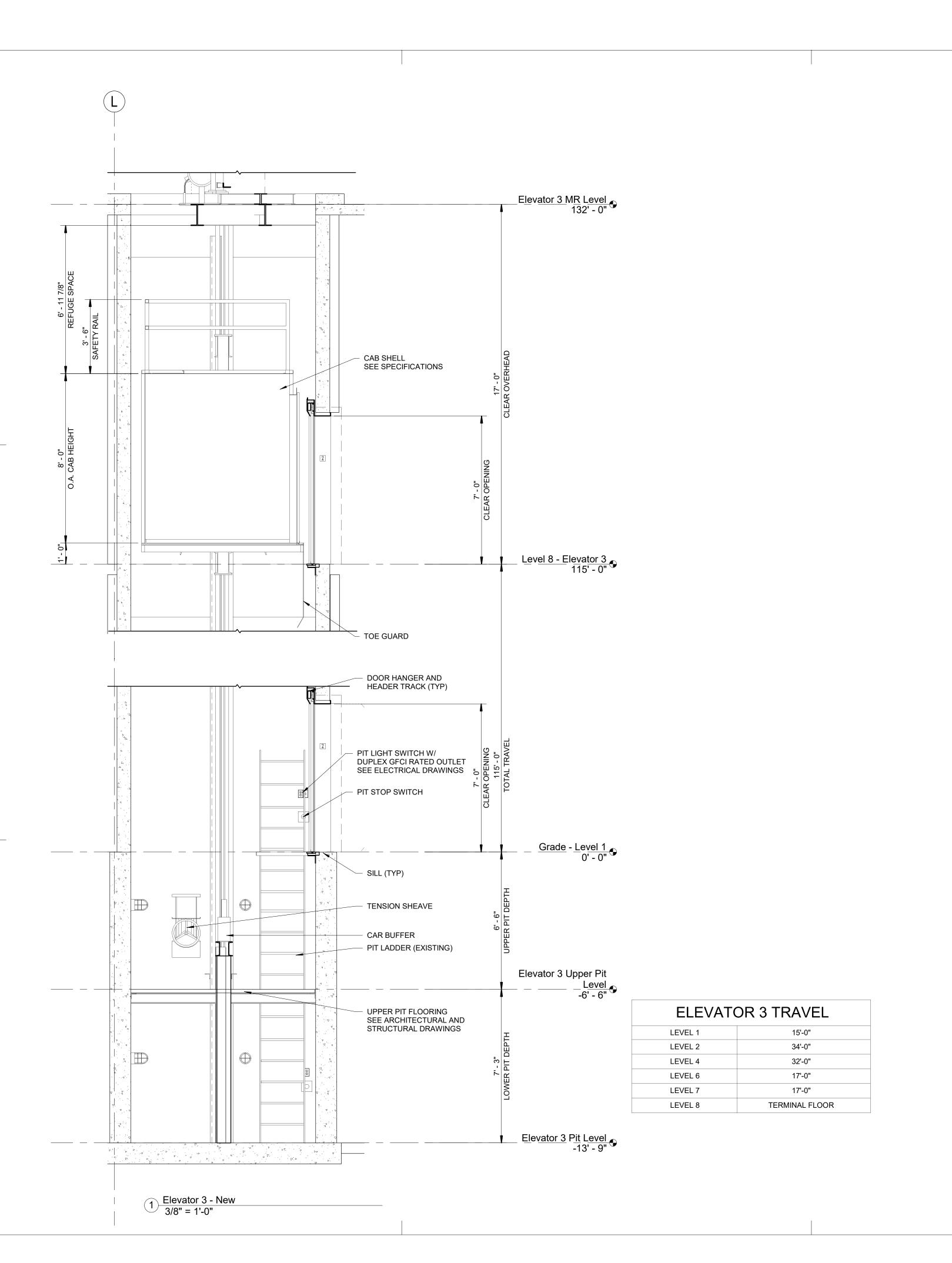
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PROJECT NO.

SHEET TITLE

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VT009





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PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

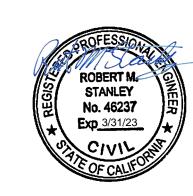
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ELEVATOR 3 NEW SECTION THRU HOISTWAY

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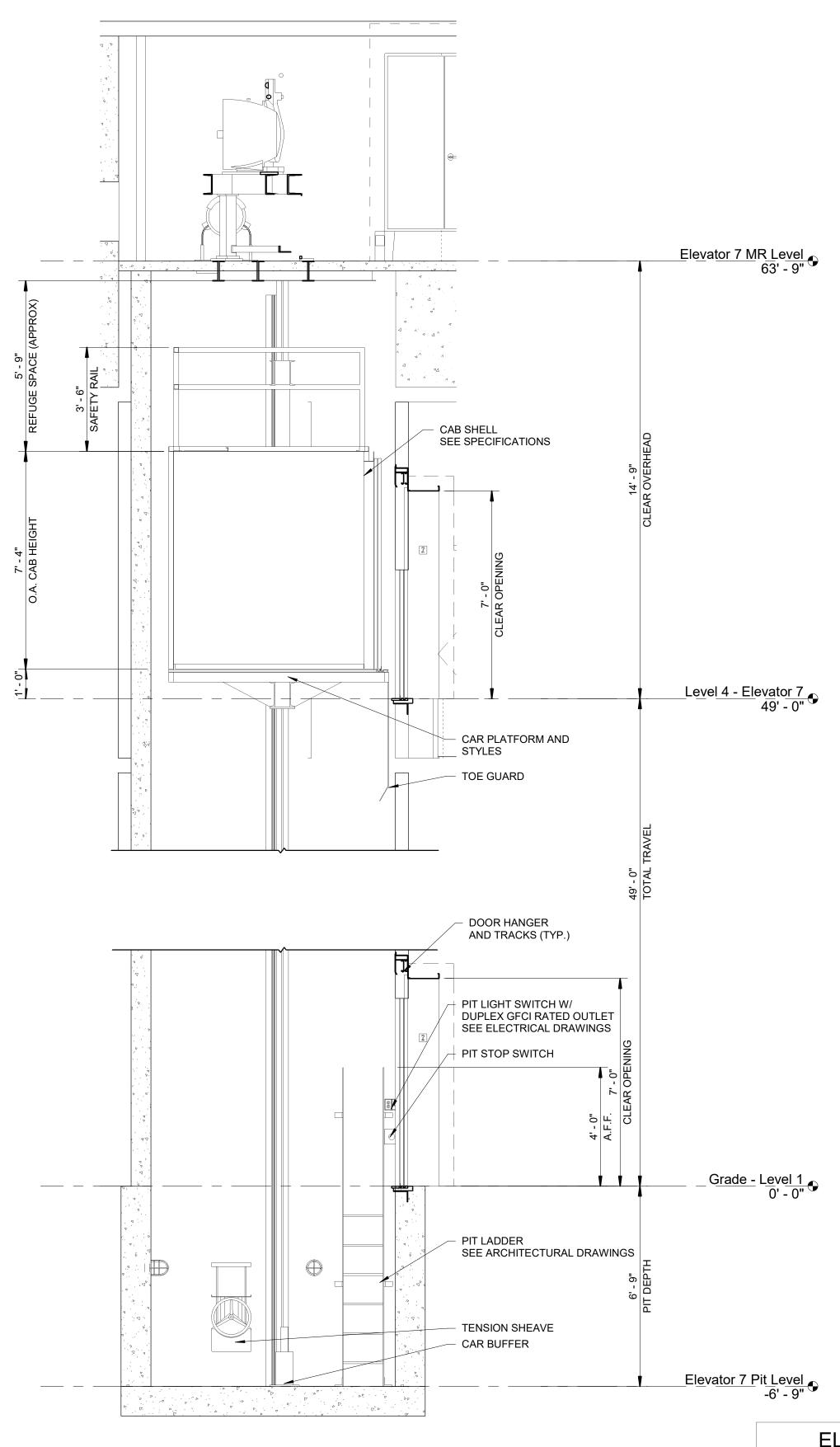
VT010

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1 Elevator 7 - New 3/8" = 1'-0"

ELEVATOR 7 TRAVEL		
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LEVEL 2	17'-0"	
LEVEL 3	17'-0"	
LEVEL 4	TERMINAL FLOOR	



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CLIENT County of San Mateo

PROJECT MANAGER

Department of Public Works 555 COUNTY CENTER REDWOOD CITY, CA 94063

VTX

➤ VERTICAL

TRANSPORTATION
EXCELLENCE

Elevator and Escalator Consulting a division of Gannett Fleming, Inc.

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PROJECT NO.

ISSUE DATE 100% **SET 10/14/21**

SHEET TITLE

ELEVATOR 7 NEW SECTION THRU HOISTWAY

SHEET NO.

VT011

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