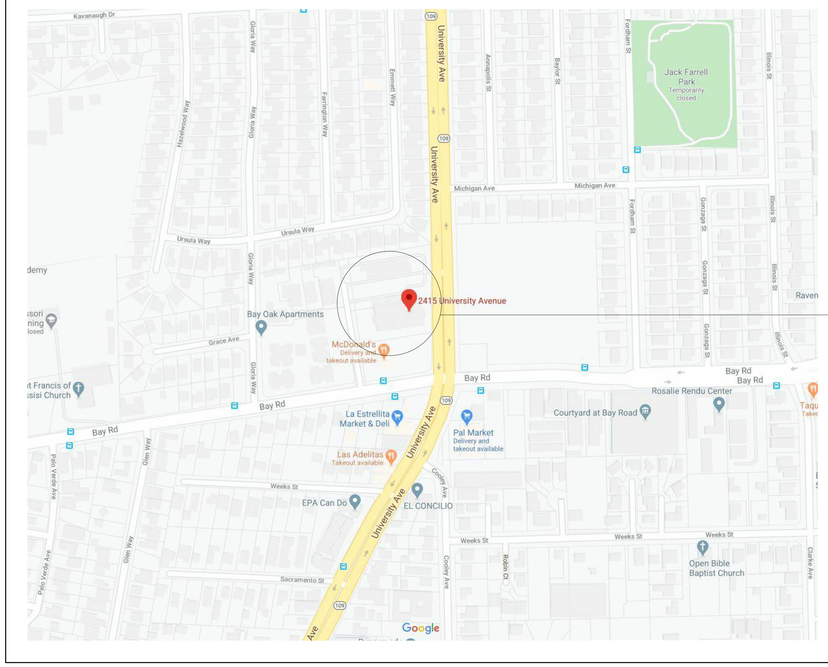
EAST PALO ALTO GOVERNMENT CENTER MECHANICAL REPLACEMENT PROJECT

11/05/21 PERMIT SUBMITTAL

LOCATION MAP



PROJECT SITE:
2415 UNIVERSITY AVE,
EAST PALO ALTO,
CA, 94303

PROJECT TEAM

A. OWNER:

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PROJECT DATA

A. DESCRIPTION OF WORK: REPLACEMENT OF EXISTING MECHANICAL SYSTEM; CEILING REPLACEMENT INCLUDING UPGRADE TO ALL LED LIGHTING; NEW FIRE ALARM SYSTEM; ELEVATOR CAB REFURBISHMENT.

B. ASSESSOR'S PARCEL NUMBER: 063-103-370

C. TYPE OF CONSTRUCTION: II-B

D. OCCUPANCY CLASSIFICATION: A - ASSEMBLY
B - BUSINESS

E. HAZARD ZONE

F. ZONING: RAVENSWOOD SPECIFIC PLAN
4 CORNERS GATEWAY (4C)

G. FIRE SPRINKLER SYSTER: FULLY SPRINKLERED

H. DEFERRED SUBMITTALS: PORTABLE OFFICE FACILITY, FIRE SPRINKLERS

I. OCCUPANCY LOADS FOR EACH AREA: SEE EXITING DIAGRAMS

J. LOT AREA:

K. FLOOR AREA CALCULATIONS:
LEVEL 1: 16,163 SF
LEVEL 2: 16,207 SF
LEVEL 3: 16,207 SF
PENTHOUSE: 1,243 SF
TOTAL FLOOR AREA: 49,620 SF ALL AREAS ARE EXISTING AND REMAIN UNCHANGED.

L. ALLOWABLE BUILDING HEIGHT & AREAS

1. TABLE 504.3 ALLOWABLE HEIGHT- TYPE II-B SPRINKLERED
'B' OCCUPANCY = 75'
AS BUILT= 52'-6"

2. TABLE 504.4 ALLOWABLE # OF STORIES - TYPE II-B
'B' OCCUPANCY = 4
AS BUILT = 3

3. ALLOWABLE BUILDING AREA 506.2.4 EQUATION 5-3
'B' OCCUPANCY: 153,375 SF =[69,000 + [112,500 X .75]
AS BUILT = 49,620 SF
EQUATION 5-4
30 = [600X30) / 600
EQUATION 5-5
.75 = [600/600 - .25]30/30

M. TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

	REQUIRED (HR)	PROVIDED (HR)
PRIMARY STRUCTURAL FRAME	0	1
EXTERIOR BEARING WALLS	0	0
INTERIOR BEARING WALLS	0	0
NONBEARING EXTERIOR WALLS	0	0
NONBEARING INTERIOR WALLS	0	0
FLOOR CONSTRUCTION & SEC. MEMB.	0	0
ROOF CONSTRUCTION & SEC. MEMB.	0	0

N. OCCUPANCY SEPARATION TABLE 508.4
ASSEMBLY TO BUSINESS (SPRINKLERED) = 1 HOUR

O. INCIDENTAL USES TABLE 509 - SEPARATION OR PROTECTION
BOILER ROOM, REFRIGERANT MACHINERY ROOM = 1 HOUR

P. CORRIDOR FIRE RESISTANCE RATING TABLE 1020.1
OCCUPANCY GROUP B - OCCUPANT LOAD SERVED BY CORRIDOR >30
WITH SPRINKLER SYSTEM NO RATING REQUIRED

P. SETBACKS

	EXISTING	PROPOSED
FRONT	16'-6"	16'-6"
REAR	103'-3"	103'-3"
SIDE - NORTH	173'-8"	173'-8"
SIDE - SOUTH	23'-5"	23'-5"
REAR (ACCESSORY)	37'-0"	37'-0"
SIDE (ACCESSORY)	117'-0"	117'-0"

Q. HEIGHT LIMITS

	EXISTING	PROPOSED
BUILDING HEIGHT	52'-6"	52'-6"
ACCESSORY STRUCTURE HEIGHT	8'-0" APPROX.	8'-0" APPROX

R. DEFERRED SUBMITTAL

ANY ALTERATIONS TO THE FIRE ALARM AND/OR FIRE SUPRESSION SYSTEM SHALL BE A DEFERRED SUBMITTAL SUBMITTED TO MPFD PRIOR TO INITIATING WORK THAT COULD IMPACT THOSE SYSTEMS.

1

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LICENSED ARCHITECT
GEORGE MIERS
No. C-10467
STATE OF CALIFORNIA
8 - 31 - 20

JOB COPY

TO REMAIN ON

SITE AT ALL TIMES

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

Apr 30 2022

SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave,
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev	Date	Description
	11/05/2021	Permit Submittal
1	2/04/2022	Permit Revisions
	9/06/2022	Issued for Bid

Drawn By HE
Checked By JH
Job. No. 1919
Scale

Reference North

Drawing Title

TITLE SHEET

A0.01

Sheet

2/1/2022 5:27:55 PM

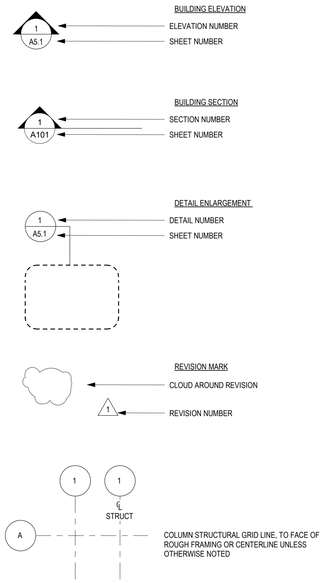
ABBREVIATIONS

A	AB	ANCHOR BOLT
	ABV	ABOVE
	AC	AIR CONDITIONING
	ACOUST	ACOUSTICAL
	ACRE-FT	ACRE-FOOT
	AD	AREA DRAIN
	ADJ	ADJUSTABLE
	AFF	ABOVE FINISH FLOOR
	AGGR	AGGREGATE
	ALT	ALTERNATE
	ALUM/AL	ALUMINUM
	ANCH	ANCHOR
	ANOD	ANODIZED
	AP	ACCESS PANEL
	APPROX	APPROXIMATE
	ARCH	ARCHITECT/ARCHITECTURAL
	ASPH	ASPHALT/ASPHALTIC
	AVG	AVERAGE
B	BD	BOARD
	BITUM	BITUMINOUS
	BLDG	BUILDING
	BLK	BLOCK
	BLKG	BLOCKING
	BLW	BELOW
	BM	BEAM
	B.O.C	BOTTOM OF CEILING
	BOT	BOTTOM
	BRKT	BRACKET
	BTU	BRITISH THERMAL UNITS
	BUR	BUILT-UP ROOFING
C	C/C	CENTER TO CENTER
	CB	CATCH BASIN
	CEM	CEMENT
	CER	CERAMIC
	CLG	CEILING
	CLKG	CAULKING
	CLR	CLEAR
	CMU	CONCRETE MASONRY UNIT
	CNTR	COUNTER
	COL	COLUMN
	COMB	COMBINATION
	CONC	CONCRETE
	CONST	CONSTRUCTION
	CONT	CONTINUOUS
	CONTR	CONTRACTOR
	CPT	CARPET
	CT	CERAMIC TILE
	CTR	CENTER
	CTSK	COUNTERSUNK
	CW	COLD WATER
D	D	DEEP/DEPTH
	DBL	DOUBLE
	DEG	DEGREE
	DEMO	DEMOLITION
	DEPT	DEPARTMENT
	DET	DETAIL
	DIA	DIAMETER
	DIAG	DIAGONAL
	DIM	DIMENSION
	DN	DOWN
	DR	DOOR
	DS	DOWNSPOUT
	DW	DISHWASHER
	DWG	DRAWING
	DWR	DRAWER
E	(E)	EXISTING
	E	EAST
	EA	EACH
	EB	EXPANSION BOLT
	ELEC	ELECTRICAL
	ELEV	ELEVATION
	ENCL	ENCLOSURE
	ENGR	ENGINEER
	EPB	ELECTRICAL PANEL BOARD
	EQ	EQUAL
	EQUIP	EQUIPMENT
	EW	EACH WAY
	EXIST	EXISTING
	EXP	EXPANSION/EXPOSED
	EXT	EXTERIOR
F	(F)	FUTURE
	FABR	FABRICATE
	FAR	FLOOR AREA RATIO
	FB	FLAT BAR
	FD	FLOOR DRAIN
	FDTN	FOUNDATION
	FF	FINISH FLOOR
	FH	FULL HEIGHT
	FHMS	FLAT HEAD MACHINE SCREW
	FHWS	FLAT HEAD WOOD SCREW
	FIN	FINISH
	FIXT	FIXTURE
	FLASH	FLASHING
	FLR	FLOOR
	FLUOR	FLUORESCENT
	FO	FINISHED OPENING
	FOC	FACE OF CONCRETE
	FOF	FACE OF FINISH
	FOM	FACE OF MASONRY
	FOS	FACE OF STUD
	FOT	FACE OF TREAD
	FRPF	FIREPROOFING
	FS	FULL SIZE
	FT	FOOT
	FTG	FOOTING
	FURR	FURRING
G	G	GAS
	GA	GAUGE
	GALV	GALVANIZED
	GB	GRAB BAR
	GD	GARBAGE DISPOSAL
	GEN	GENERAL
	GFCI	GROUND FAULT CIRCUIT INTERRUPTED
	GFI	GROUND FAULT INTERRUPTED
	GL/GLAZ	GLASS/GLAZED
	GND	GROUND
	GR	GRADE
	GSM	GALVANIZED SHEET METAL
	GYP	GYPSUM
	GYP BD	GYPSUM BOARD
H	H	HIGH
	HB	HOSE BIBB
	HC	HOLLOW CORE
	HCWD	HOLLOW CORE WOOD DOOR
	HDWR	HARDWARE
	HM	HOLLOW METAL
	HORIZ	HORIZONTAL
	HP	HIGH POINT
	HR	HOUR
	HT	HEIGHT
	HVAC	HEATING, VENTILATING & AIR CONDITIONING
	HW	HOT WATER
	HWH	HOT WATER HEATER
I	ID	INSIDE DIAMETER/ DIMENSION
	IN	INCH
	INCAD	INCANDESCENT
	INFO	INFORMATION
	INSUL	INSULATION
	INT	INTERIOR
J	J-BOX	JUNCTION BOX
	JST	JOIST
	JT	JOINT
K	KD	KILN DRIED
	KIT	KITCHEN
L	L	LONG/LENGTH
	LAM	LAMINATE
	LAV	LAVATORY
	LB	POUND
	LCD	LIQUID CRYSTAL DIODE
	LD	LINEAR DIFFUSER
	LED	LIGHT EMITTING DIODE
	LP	LOW POINT
	LT	LIGHT
	LTG	LIGHTING
M	MACH	MACHINE
	MAT	MATERIAL
	MAX	MAXIMUM
	MBR	MODIFIED BITUMEN ROOFING
	MECH	MECHANICAL
	MEMB	MEMBRANE
	MEZZ	MEZZANINE
	MFR	MANUFACTURER
	MID	MIDDLE
	MIN	MINIMUM/MINUTE
	MIRR	MIRROR
	MISC	MISCELLANEOUS
	ML	MARRIAGE LINE
	MO	MASONRY OPENING
	MP	METAL PANEL
	MS	MOTION SENSOR
	MTD	MOUNTED
	MTG	MOUNTING
	MTL	METAL
	MULL	MULLION
	MW	MICROWAVE
N	(N)	NEW
	N	NORTH
	NIC	NOT IN CONTRACT
	NFVA	NET FREE VENTILATION AREA
	NO	NUMBER
	NOM	NOMINAL
	NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
	NTS	NOT TO SCALE
O	O/	OVER
	OA	OVERALL
	OC	ON CENTER
	OD	OUTSIDE DIMENSION
	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
	OFOI	OWNER FURNISHED/ OWNER INSTALLED
	OH	OPPOSITE HAND
	OPNG	OPENING
	OPP	OPPOSITE
	OXY	OXYGEN
P	PERF	PERFORATED
	PERP	PERPENDICULAR
	PL	PLATE
	PLAM	PLASTIC LAMINATE
	PLAS	PLASTER
	PLUMB	PLUMBING
	PLYWD	PLYWOOD
	PNT	PAINT/PAINTED
	PRCST	PRECAST
	PREFAB	PREFABRICATED
	PSF	POUNDS PER SQUARE FOOT
	PSI	POUNDS PER SQUARE INCH
	PT	POINT/PRESSURE TREATED
	PWR	POWER
Q	QT	QUARRY TILE
	QTY	QUANITY
R	(R)	REMOVE
	R	RISER
	RAD	RADIUS
	RB	RUBBER BASE
	RCP	REFLECTED CEILING PLAN
	RD	ROOF DRAIN
	REBAR	REINFORCING
	RECEP	RECEPTACLE
	RECT	RECTANGULAR
	REF	REFERENCE
	REFR	REFRIGERATOR
	REINF	REINFORCED
	REQD	REQUIRED
	RESIL	RESILIENT
	RETG	RETAINING
	REV	REVISION
	RGTR	REGISTER
	RM	ROOM
	RND	ROUND
	RO	ROUGH OPENING
	RWL	RAIN WATER LEADER
S	S	SOUTH/SWITCH
	SB	SITE BUILT
	SC	SOLID CORE
	SCD	SEE CIVIL DRAWINGS
	SCHED	SCHEDULE
	SCR	SCREEN
	SCWD	SOLID CORE WOOD DOOR
	SECT	SECTION
	SF	SQUARE FOOT
	SHT	SHEET
	SHTHG	SHEATHING
	SHWR	SHOWER
	SI	SITE INSTALLED
	SIM	SIMILAR
	SLD	SEE LANDSCAPE DRAWINGS
	SKYLT	SKYLIGHT
	SMACNA	SHEET METAL/AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
	SMD	SEE MECHANCIAL DRAWING
	SMS	SHEET METAL SCREW
	SMWP	SHEET MEMBRANE WATERPROOFING
	SPEC	SPECIFICATIONS/SPECIAL
	SR	SUPPLY REGISTER
	SQ	SQUARE
	SSD	SEE STRUCTURAL DRAWINGS
	SST	STAINLESS STEEL
	STD	STANDARD
	STGR	STAGGER
	STL	STEEL
	STOR	STORAGE
	STRL	STRUCTURAL
	SUR	SURFACE
	SUSP	SUSPENDED
	SVC	SERVICE
	SVY	SURVEY
	SYM	SYMMETRICAL
T	T	TREAD/THERMOSTAT
	T&B	TOP & BOTTOM
	T&G	TONGUE & GROOVE
	TB	TOWEL BAR
	TBD	TO BE DETERMINED
	TC	TRASH CAN
	TCA	TILE COUNCIL OF AMERICA
	TD	TRENCH DRAIN
	TEL	TELEPHONE
	TEMP	TEMPERED
	TG	TEMPERED GLAZING
	THK	THICK
	THRES	THRESHOLD
	TOC	TOP OF CONCRETE
	TOP	TOP OF PAVEMENT
	TOPO	TOPOGRAPHY
	T.O.R	TOP OF ROOF
	TOS	TOP OF STEEL
	TOW	TOP OF WALL
	TV	TELEVISION
	TYP	TYPICAL
U	UBC	UNIFORM BUILDING CODE
	UL	UNDERWRITER'S LABORATORY
	UNF	UNFINISHED
	UON	UNLESS OTHERWISE NOTED
V	VERT	VERTICAL
	VEST	VESTIBULE
	VG	VERTICAL GRAIN
	VIF	VERIFY IN FIELD
W	W	WEST/WIDE/WIDTH
	W/	WITH
	WD	WOOD
	WH	WATER HEATER
	WIN	WINDOW
	WO	WHERE OCCURS
	W/O	WITHOUT
	WP	WATERPROOF
	WR	WATER RESISTANT
	WT	WEIGHT
	WTR	WATER
SYMBOLS	&	AND
	∠	ANGLE
	@	AT
	℄	CENTER LINE
	°	DEGREES
	∅	DIAMETER
	"	INCH
	#	NUMBER
	±	PLUS/MINUS

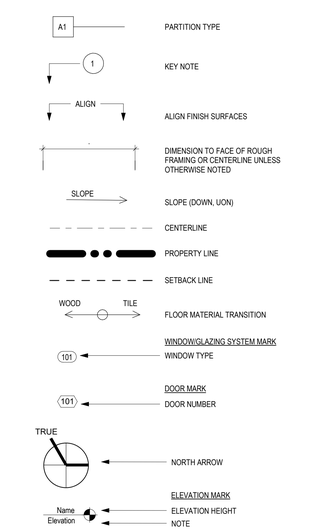
MATERIAL SYMBOLS

- STONE
- STEEL-DETAIL AND LARGE SCALE ONLY
- WOOD, STUD/BLOCKING
- WOOD SHIM
- WOOD, FINISH
- PLYWOOD
- BATT INSULATION
- RIGID INSULATION
- GLASS, PLASTIC
- SAND/ MORTAR/ PLASTER/ GYPSUM BOARD
- CONCRETE
- EARTH
- GTRAVEL / AGGREGATE
- ALUMINUM
- WOOD, PARTICLE BOARD

REFERENCE SYMBOLS



DRAWING SYMBOLS



GENERAL NOTES

1. THE CONTRACT DOCUMENTS CONSIST OF THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR, CONDITIONS OF THE CONTRACT (GENERAL, SUPPLEMENTARY AND OTHER CONDITIONS), DRAWINGS, SPECIFICATIONS, ADDENDA AND MODIFICATIONS ISSUED PRIOR TO OR AFTER EXECUTION OF THE CONTRACT, AND OTHER DOCUMENTS LISTED IN THE AGREEMENT.
2. THE WORK INCLUDED UNDER THIS CONTRACT CONSISTS OF ALL LABOR, MATERIALS, TRANSPORTATION, TOOLS, AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE PROJECT LEAVING ALL WORK READY FOR USE.
3. THE CONTRACT DOCUMENTS DESCRIBE SPECIFIC DESIGN INTENT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF COMPLETE OPERATIONAL SYSTEMS AND INSTALLATIONS. THE PLANS INDICATE THE GENERAL EXTENT OF NEW CONSTRUCTION NECESSARY FOR THE WORK, BUT ARE NOT INTENDED TO BE ALL INCLUSIVE. ALL DEMOLITION AND NEW WORK NECESSARY TO ALLOW FOR A FINISHED JOB IN ACCORDANCE WITH THE INTENTION OF THE DRAWING IS INCLUDED REGARDLESS OF WHETHER SHOWN ON THE DRAWINGS OR MENTIONED IN THE NOTES.
4. ANY ERRORS, OMISSIONS OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
5. THE GENERAL CONTRACTOR (AND ANY OTHER SUBCONTRACTORS REQUIRED) SHALL EXAMINE THE SITE AND PORTIONS THEREOF WHICH WILL AFFECT HIS WORK. CONTRACTORS SHALL COMPARE IT WITH THE DRAWINGS AND SATISFY THEMSELVES AS TO CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. THE GENERAL CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN LOCATIONS OF ANY AND ALL MECHANICAL, TELEPHONE, ELECTRICAL, PLUMBING AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING, DUCT WORK AND CONDUIT) AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ABOVE EQUIPMENT ARE PROVIDED. EXPOSED OR CONCEALED ELEMENTS SHALL BE DETERMINED AND REVIEWED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
6. ANY DISCREPANCIES OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
7. WRITTEN DIMENSIONS TAKE PRECEDENCE. DO NOT SCALE DRAWINGS. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS.
8. ALL EXTERIOR WALL DIMENSIONS ARE TO FACE OF FRAMING/CONCRETE, UNLESS OTHERWISE NOTED, AND ALL INTERIOR WALL DIMENSIONS ARE TO FACE OF FRAMING, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLR" ARE TO BE PRECISELY MAINTAINED. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT ARCHITECT'S APPROVAL UNLESS NOTED AS "+/-".
9. ALL DIMENSIONS NOTED "VIF" ARE TO BE CHECKED BY CONTRACTOR PRIOR TO CONSTRUCTION. IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ARCHITECT.
10. "ALIGN" SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
11. "TYPICAL" OR "TYP" SHALL MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY KEYED AND NOTED "TYP" ONLY ONCE, WHEN THEY FIRST OCCUR.
12. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS AND ELEVATIONS.
13. FEATURES OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME CHARACTER AS SHOWN FOR SIMILAR CONDITIONS.
14. GRID LINES ARE SHOWN TO CENTERLINE OF STRUCTURE AND ARE FOR REFERENCE.
15. OWNER WILL PROVIDE WORK NOTED "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
16. PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
17. VERIFY ALL EQUIPMENT SIZES BEFORE BEGINNING WORK.
18. FURNISH AND INSTALL ALL MISCELLANEOUS AND STRUCTURAL ITEMS (STEEL, ALUMINUM, ETC. INCLUDING MATERIAL FOR SEPARATION OF DISSIMILAR METALS) FOR EXTERIOR WALL SYSTEMS, ROOFING, SCREEN WALLS, MARQUEES, ETC. ASSOCIATED WITH THE BUILDING ENVELOPE AND ROOF.
19. IN THE EVENT OF CONFLICT BETWEEN DATA OR INFORMATION SHOWN ON DRAWINGS AND DATA AND INFORMATION IN THE SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN. DETAIL DRAWINGS SHALL TAKE PRECEDENCE OVER DRAWINGS OF SMALLER SCALE.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY FRAMING, BRACING AND STRUCTURING ALL WALL, BULKHEAD AND OTHER DRYWALL CONSTRUCTION IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS CONTAINED IN THE DRAWINGS WHETHER OR NOT SPECIFICALLY REFERENCED IN THE PLANS.

APPLICABLE CODES

ALL CONSTRUCTION SHALL CONFORM WITH THE FOLLOWING CODES:

- 2019 CALIFORNIA BUILDING CODE, VOLUME 1 & 2
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2019 CALIFORNIA MECHANICAL CODE
- 2019 CALIFORNIA ELECTRICAL CODE
- 2019 CALIFORNIA PLUMBING CODE
- 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, TITLE 24
- 2019 CALIFORNIA FIRE CODE
- 2019 CALIFORNIA ENERGY CODE
- ALL OTHER APPLICABLE STATE AND LOCAL CODES AND ORDINANCES

IN THE EVENT OF CONFLICTS IN CODE REQUIREMENTS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY. ANY CONFLICTS BETWEEN THE CONSTRUCTION DOCUMENTS AND ABOVE CODES AND ORDINANCES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

SHEET LIST

SHEET #	SHEET NAME
A0.4	Unnamed
A0.5	Unnamed
A0.6	Unnamed

ARCHITECTURAL

A0.01	TITLE SHEET
A0.02	GENERAL NOTES, SHEET INDEX
A1.01	OVERALL SITE PLAN
A1.10	OCCUPANCY & PHASING DIAGRAMS
A1.11	EGRESS PLAN
A1.12	EGRESS PLANS
A2.01	OVERALL PLAN - LEVEL 1 & 2
A2.02	OVERALL PLAN - LEVEL 3 & 4 PENTHOUSE
A2.06	DEMO PLAN - ROOF & MECHANICAL PENTHOUSE
A2.11	FLOOR PLAN -LEVEL 1 WEST
A2.12	FLOOR PLAN - LEVEL 1 EAST
A2.13	FLOOR PLAN - LEVEL 2 WEST
A2.14	FLOOR PLAN - LEVEL 2 EAST
A2.15	FLOOR PLAN - LEVEL 3 WEST
A2.16	FLOOR PLAN - LEVEL 3 EAST
A2.17	FLOOR PLAN - PENTHOUSE WEST
A2.18	FLOOR PLAN - PENTHOUSE EAST
A2.19	PENTHOUSE & STAIR ROOF PLAN
A2.31	OVERALL REFLECTED CEILING PLAN - LEVEL 1 & 2
A2.32	OVERALL REFLECTED CEILING PLAN - LEVEL 3
A2.41	RCP - DEMO - LEVEL 01 WEST
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ISSUE INDEX

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1	2/04/2022	PERMIT REVISIONS

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GENERAL NOTES, SHEET INDEX

A0.02

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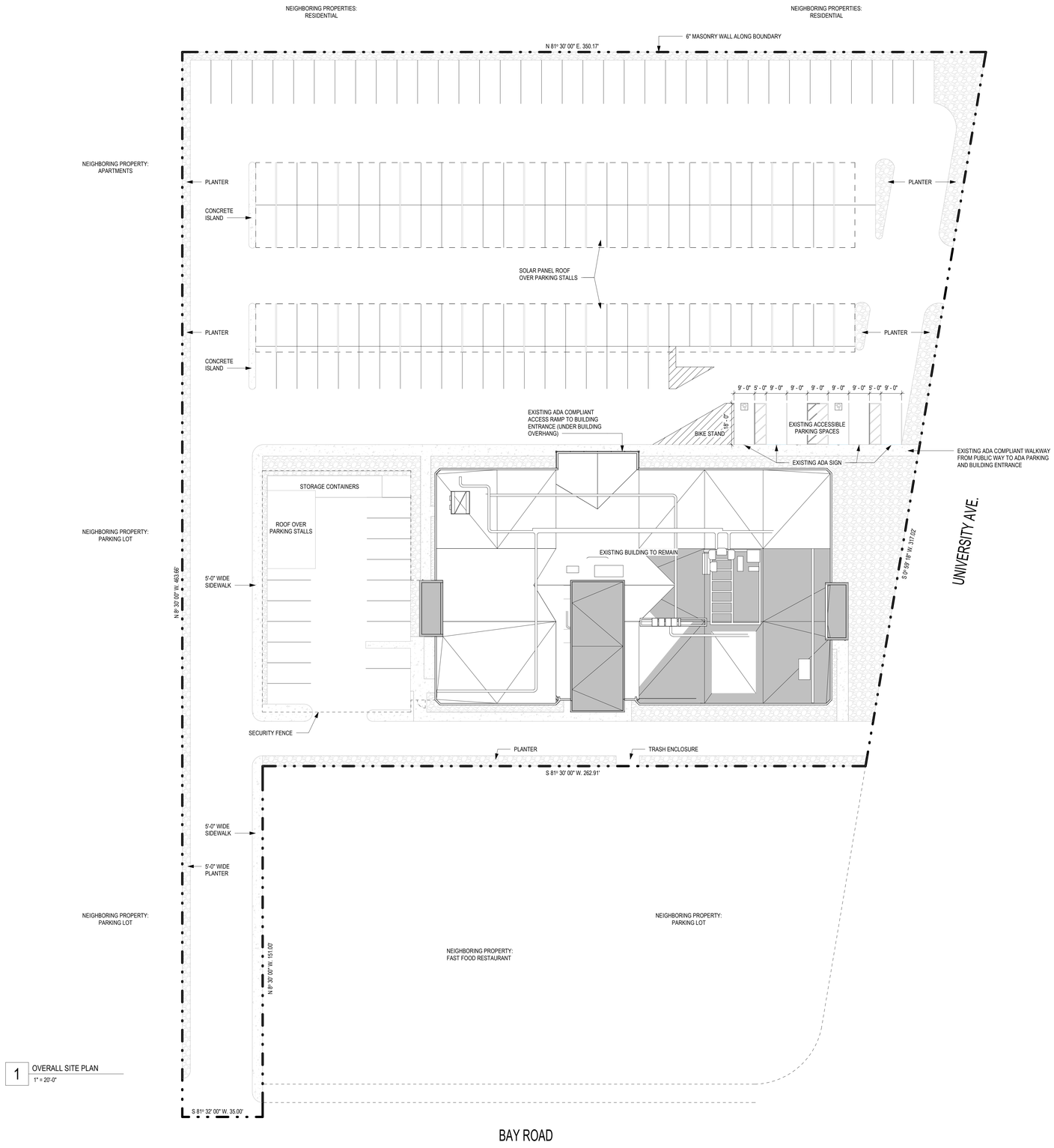

1 OVERALL SITE PLAN
1" = 20'-0"

SITE PLAN GENERAL NOTES

PROPERTY LINE

SITE PLAN SHOWN FOR REFERENCE ONLY.
NO SITE WORK INCLUDED IN SCOPE

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OVERALL SITE PLAN

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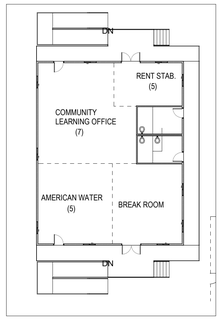
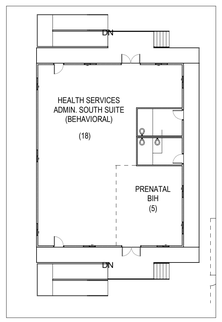
TENANT RELOCATIONS - CONSTRUCTION PHASE DIAGRAM



NOTE:
TEMPORARY BUILDING TO BE SUBMITTED UNDER SEPARATE PERMIT BY DESIGN/BUILD MODULAR UNIT SUPPLIER

9 PHASE 3 TEMPORARY BUILDING OCCUPANTS
1" = 20'-0"



NOTE:
TEMPORARY BUILDING TO BE SUBMITTED UNDER SEPARATE PERMIT BY DESIGN/BUILD MODULAR UNIT SUPPLIER

8 PHASE 2 TEMPORARY BUILDING OCCUPANTS
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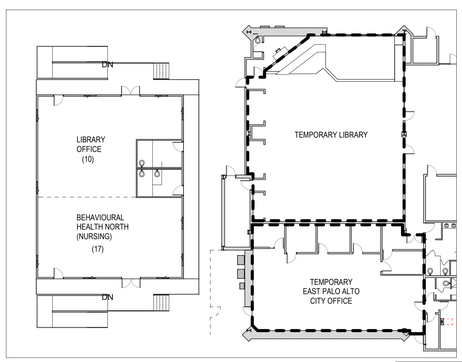
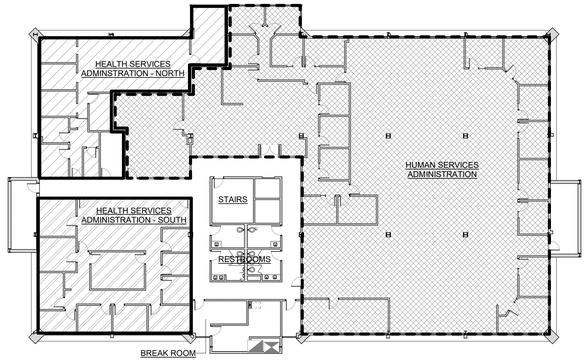


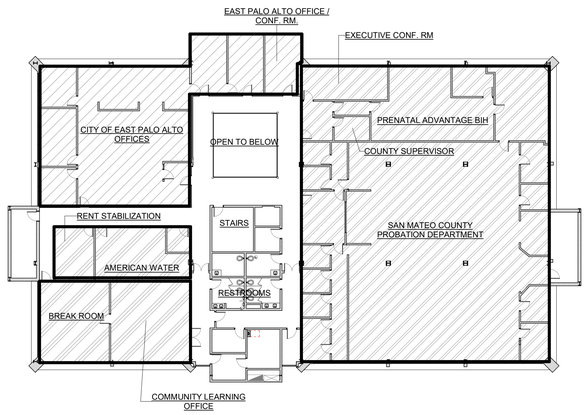
NOTE:
TEMPORARY BUILDING TO BE SUBMITTED UNDER SEPARATE PERMIT BY DESIGN/BUILD MODULAR UNIT SUPPLIER

7 PHASE 1 TEMPORARY BUILDING OCCUPANTS
1" = 20'-0"



PHASES
1
2
ALL

6 LEVEL 3 PHASING KEY
1" = 20'-0"



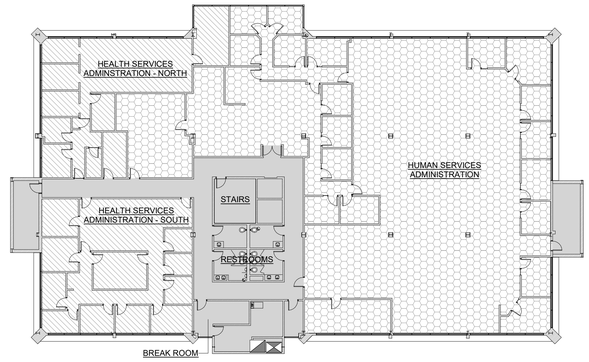
PHASES
1
2
3

5 LEVEL 2 PHASING KEY
1" = 20'-0"

PHASES
1
2

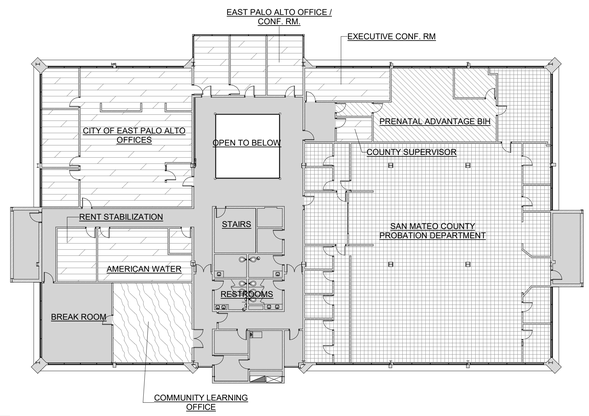
4 LEVEL 1 PHASING KEY
1" = 20'-0"

BUILDING TENANT DIAGRAM



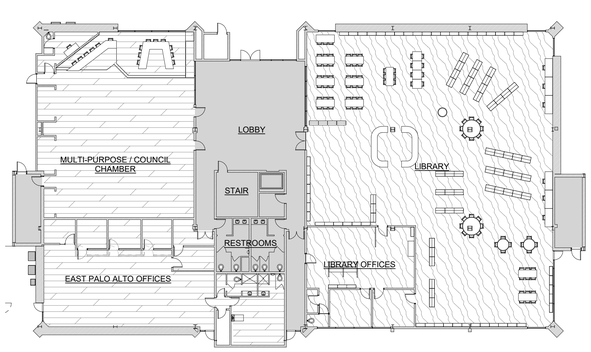
TENANTS
HEALTH SERVICES
HUMAN SERVICES
SHARED

3 LEVEL 3 TENANT KEY
1" = 20'-0"



TENANTS
CITY OF E.P.A.
HEALTH SERVICES
LIBRARY
PROBATION
SHARED

2 LEVEL 2 TENANT KEY
1" = 20'-0"



TENANTS
CITY OF E.P.A.
LIBRARY
SHARED

1 LEVEL 1 TENANT KEY
1" = 20'-0"

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OCCUPANCY & PHASING DIAGRAMS

A1.10
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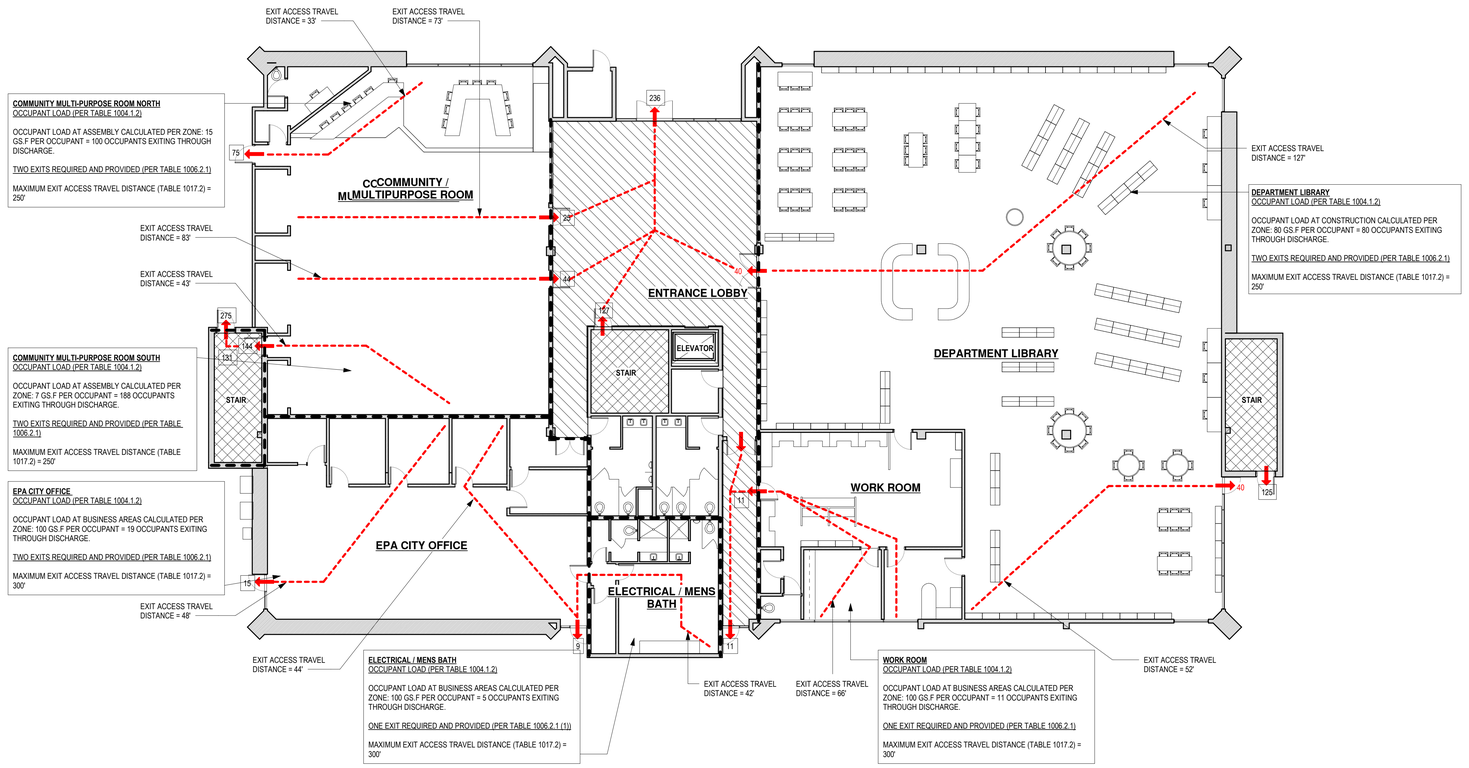
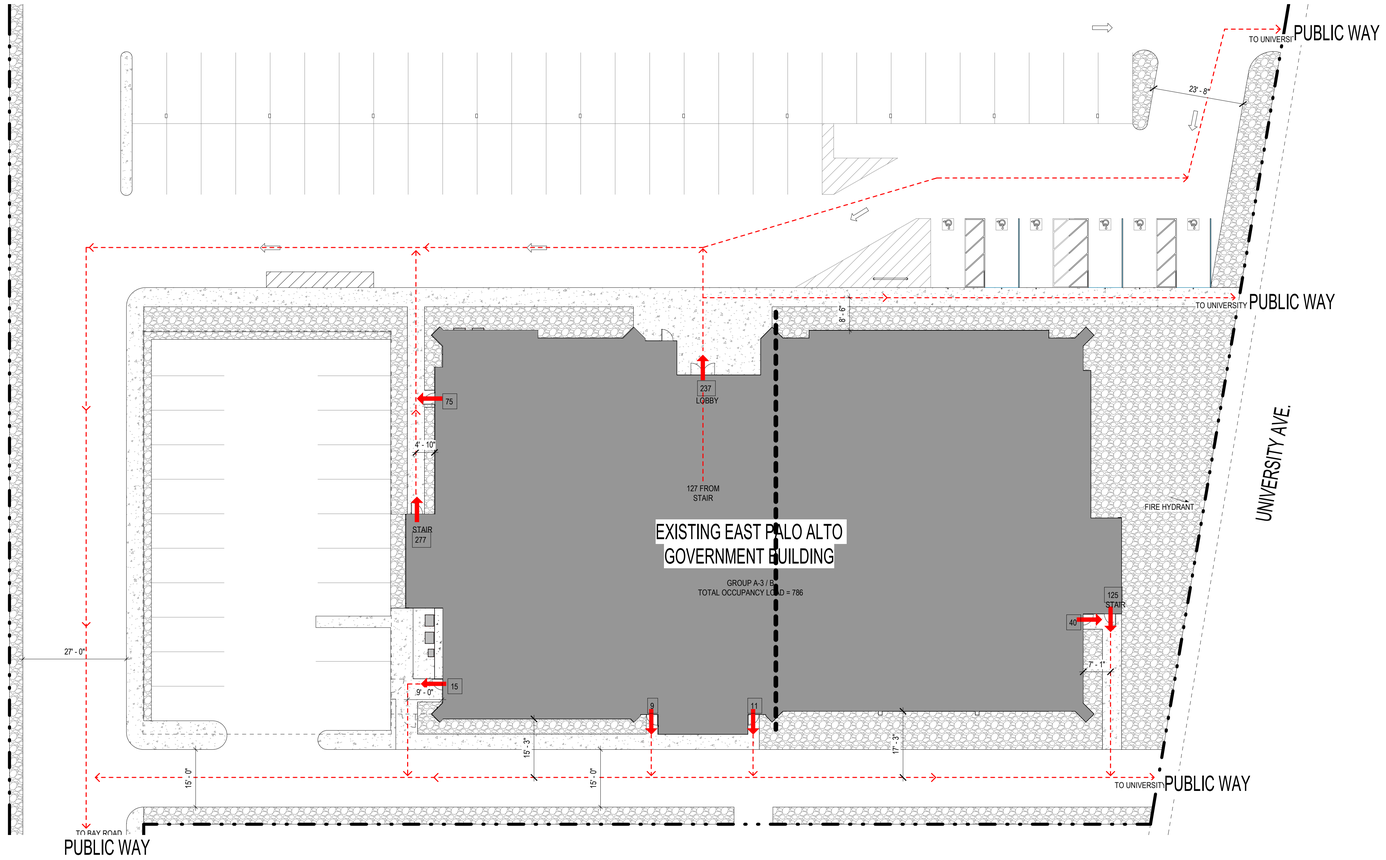


2 LEVEL 1 - EGRESS PLAN

3/32" = 1'-0"



1 SITE EXISTING EGRESS PLAN

1/16" = 1'-0"

EGRESS PLAN LEGEND

- SIGNED EXIT
- EGRESS PATH OF TRAVEL
- XX EGRESS LOAD
- FOOTPRINT OF BUILDING
- CORRIDOR
- EXIT STAIR
- TENANT SEPARATION

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EGRESS PLAN

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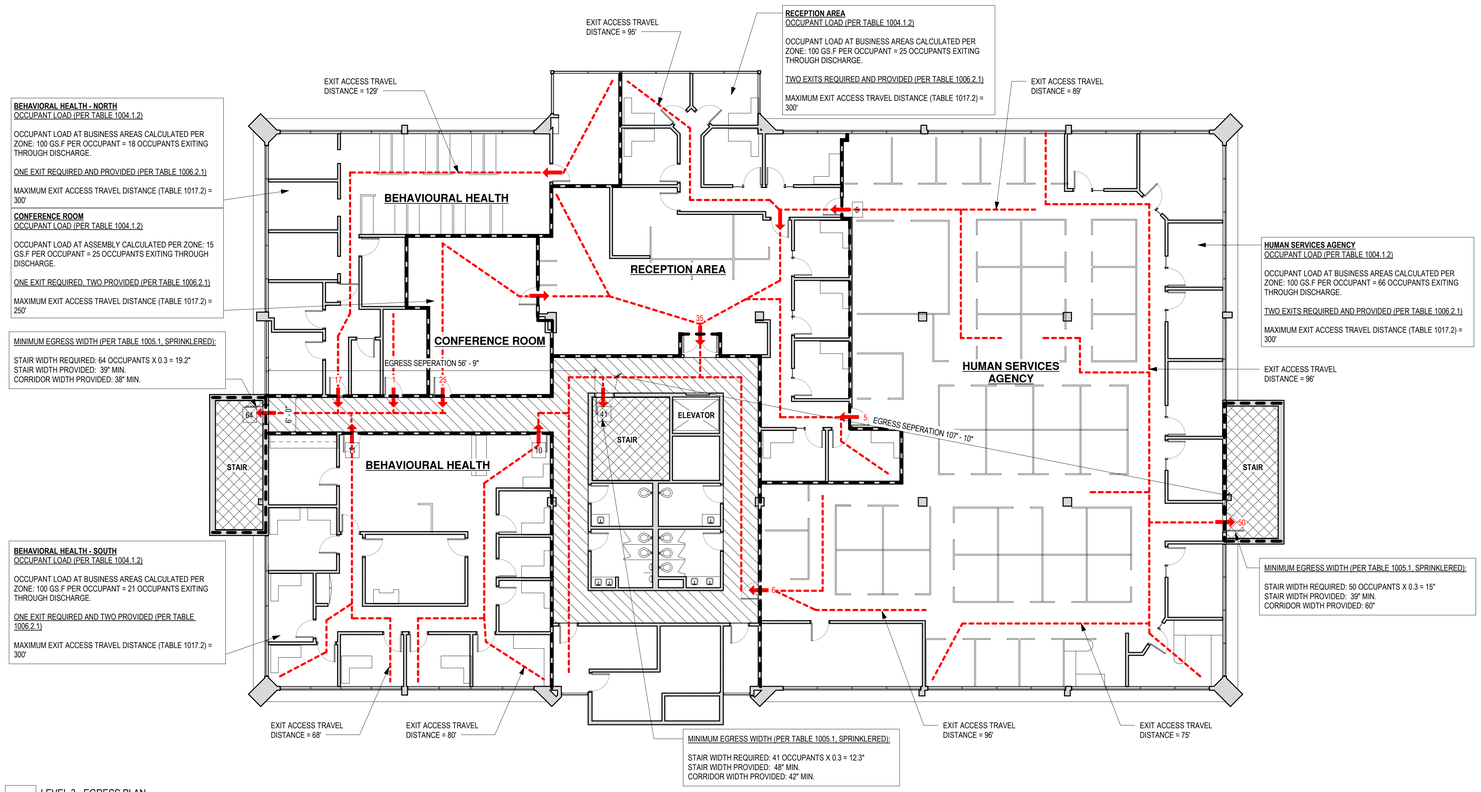
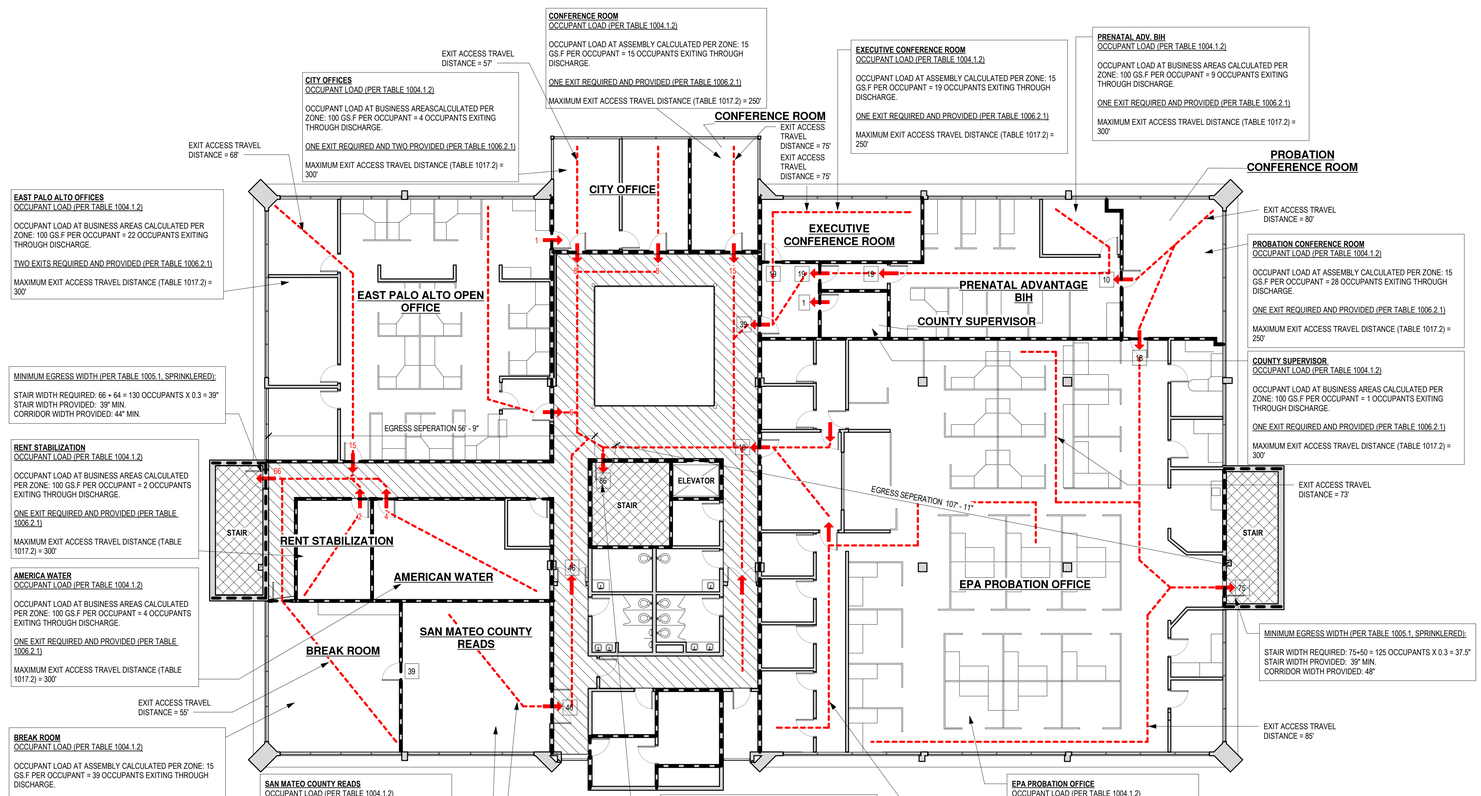


2 LEVEL 3 - EGRESS PLAN

3/32" = 1'-0"



1 LEVEL 2 - EGRESS PLAN

3/32" = 1'-0"

EGRESS PLAN LEGEND

- SIGNED EXIT
- EGRESS PATH OF TRAVEL
- XX EGRESS LOAD
- FOOTPRINT OF BUILDING
- CORRIDOR
- EXIT STAIR
- TENANT SEPARATION

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EGRESS PLANS

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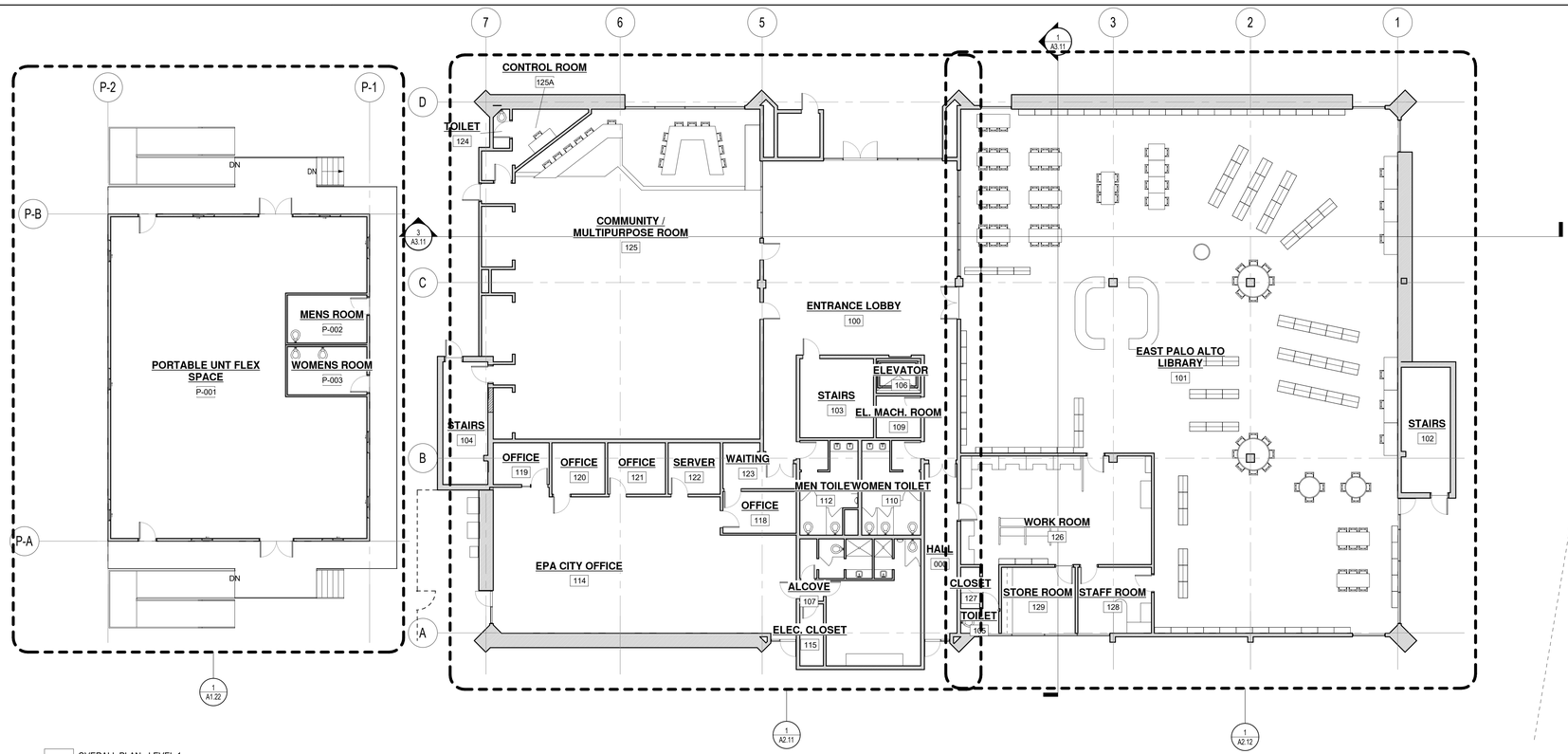
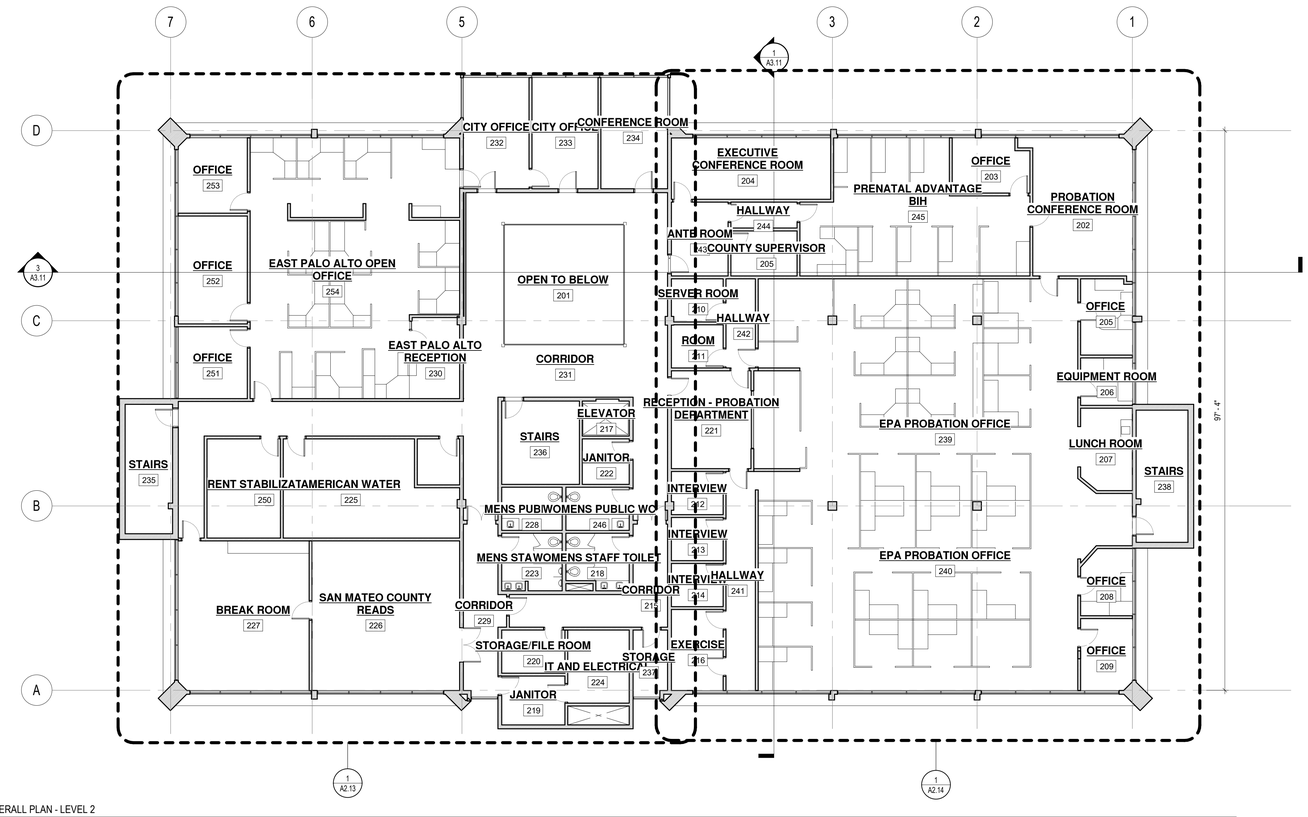


1 OVERALL PLAN - LEVEL 1
3/32" = 1'-0"



2 OVERALL PLAN - LEVEL 2
3/32" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A9.01 FOR FINISH SCHEDULE. FINISH SCHEDULE IDENTIFIES CHANGES TO WALL SURFACES.
2. AT EXISTING STAIRS REMOVE AIR TRANSFER GRILL AND INFILL WALL PAINT TO MATCH ADJACENT WALLS
3. SEE SHEET A8.01 FOR ELEVATOR REFURBISHMENT
4. NOTE SOME EXISTING WALLS TO HAVE EXTENSIONS ADDED ABOVE CEILING. COORIDNATE WITH EMP AS REQUIRED

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OVERALL PLAN - LEVEL 1 & 2

A2.01

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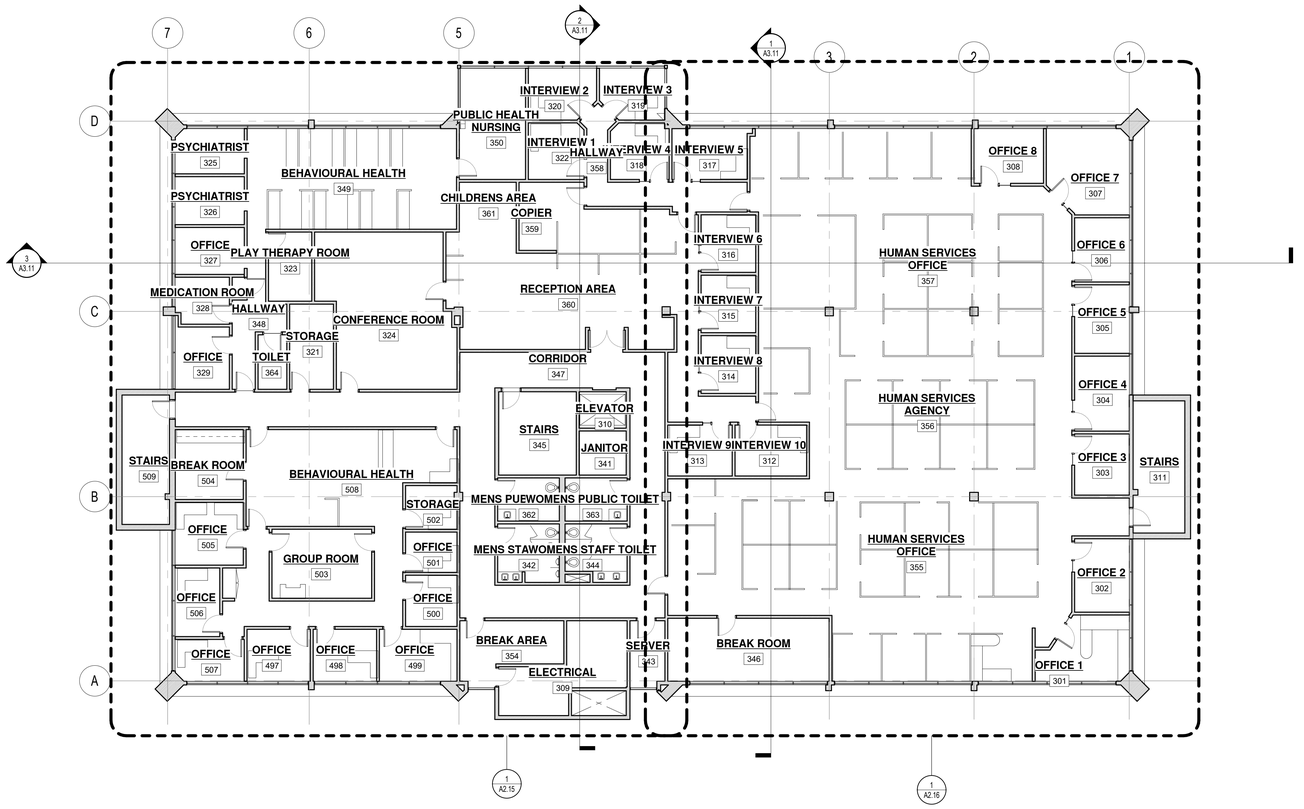
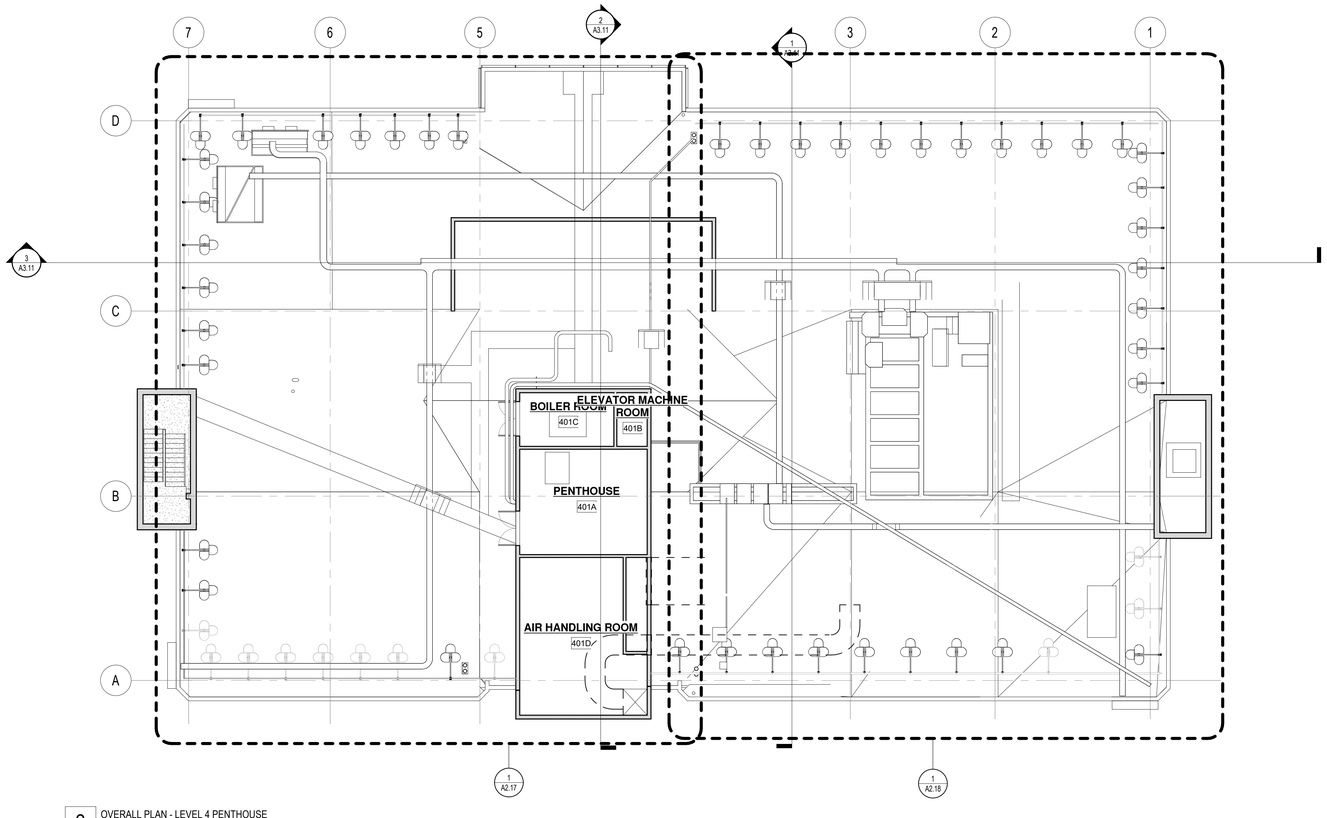
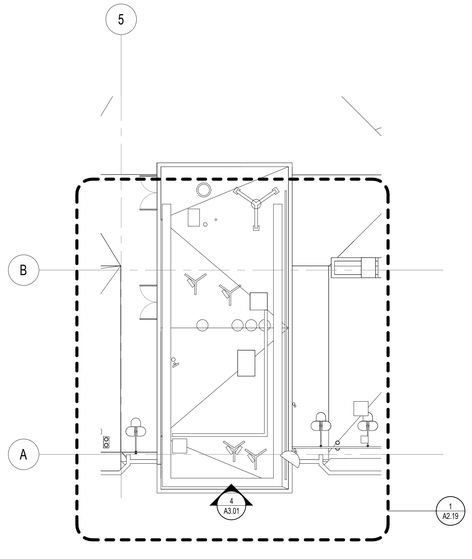


1 OVERALL PLAN - LEVEL 3
3/32" = 1'-0"



2 OVERALL PLAN - LEVEL 4 PENTHOUSE
3/32" = 1'-0"



3 OVERALL PLAN - PENTHOUSE ROOF
3/32" = 1'-0"

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OVERALL PLAN - LEVEL 3 & 4 PENTHOUSE

A2.02

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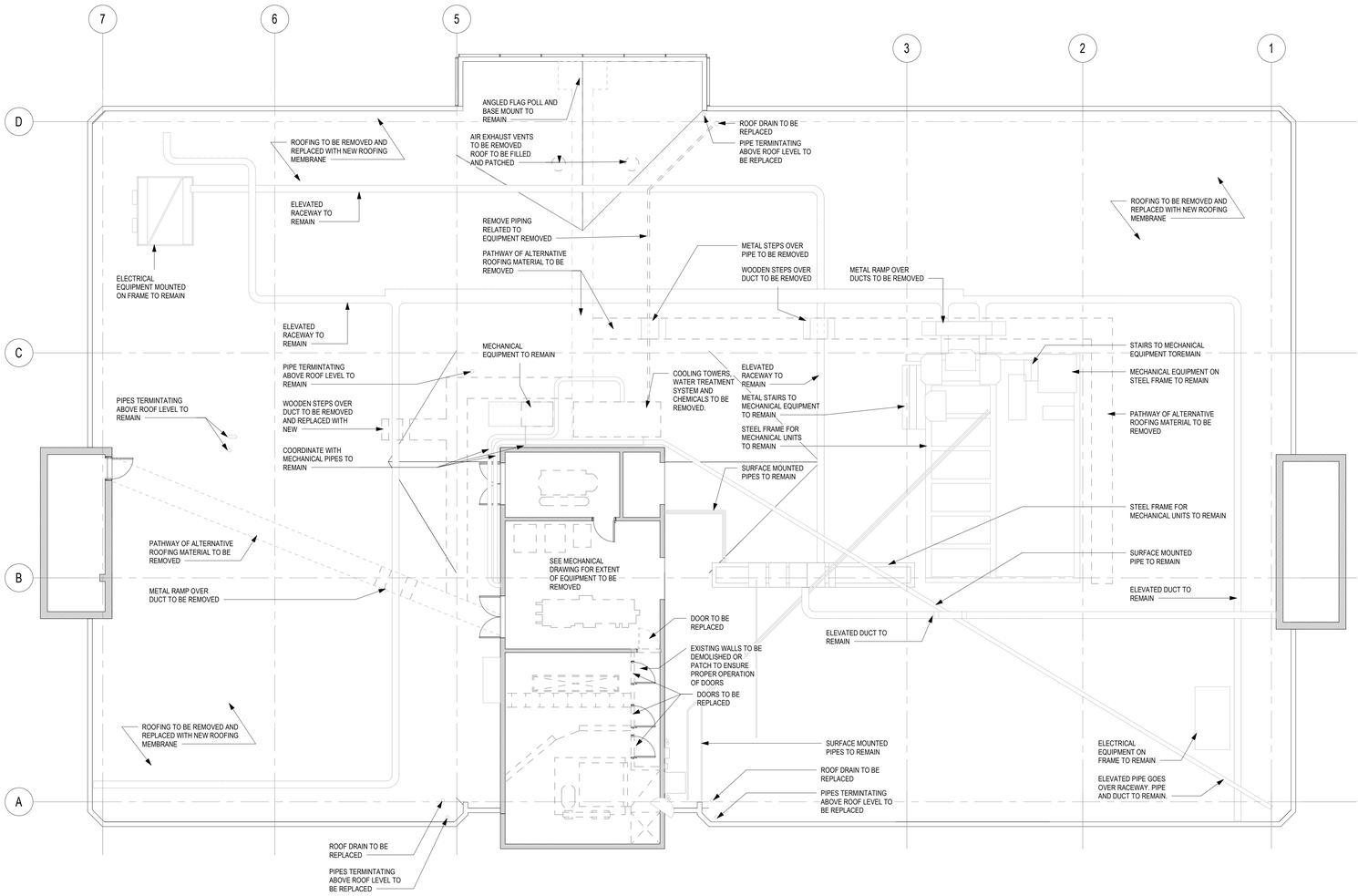

1 LEVEL 4 ROOF & MECHANICAL PENTHOUSE DEMO PLAN

1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

1. PREPARE ROOF FOR INSTALLATION OF NEW ROOFING MEMBRANE, SEE SPECIFICATIONS FOR MORE INFORMATION.
2. EXISTING REINFORCED ROOFING PATHWAYS AND STEPS TO BE REMOVED.
3. NEW REINFORCED ROOFING PATHWAYS AND STEPS TO BE INSTALLED TO MATCH EXISTING. MAINTAIN ACCESS TO ALL EQUIPMENT AS WAS PREVIOUSLY AVAILABLE.
4. EXISTING ROOF DRAINS TO BE REPLACED, TYPICAL
5. EXISTING TELECOM EQUIPMENT AND RACEWAYS TO REMAIN
6. EXISTING DOORS AND PARTITION INSIDE OF PENTHOUSE TO BE REMOVED AND REPLACED WHERE INDICATED.
7. EXISTING STAIRS NOTED TO REMAIN MAY NEED TO BE TEMPORARILY REMOVED FOR REROOFING. CONTRACTOR TO REMOVE, PROTECT, AND REINSTALL AS NECESSARY.
8. SEE MECHANICAL AND STRUCTURAL DRAWINGS TO COORDINATE EQUIPMENT TO BE INSTALLED AND REMOVED.

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DEMO PLAN - ROOF & MECHANICAL PENTHOUSE

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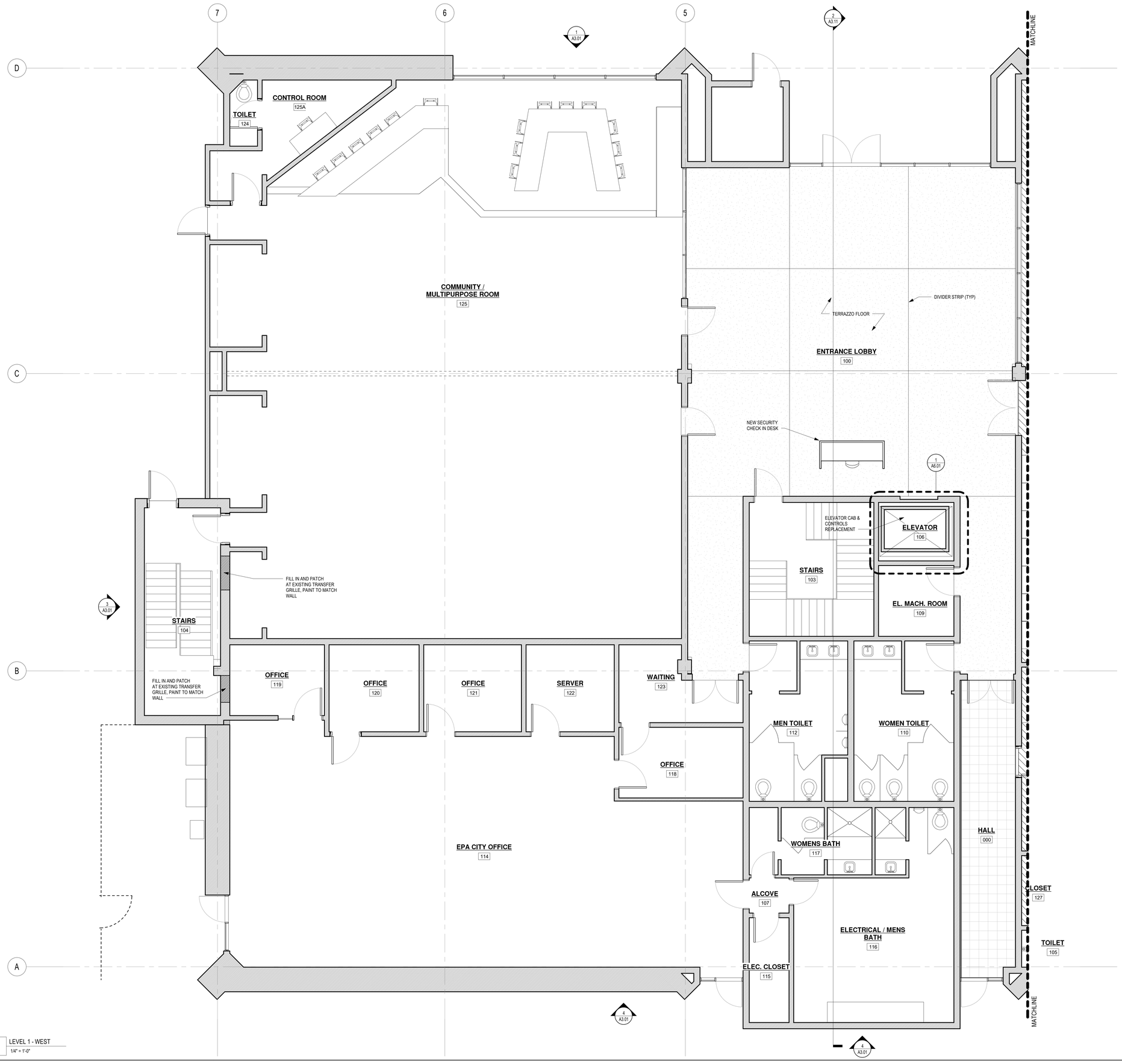

1 LEVEL 1 - WEST
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A9.01 FOR FINISH SCHEDULE. FINISH SCHEDULE IDENTIFIES CHANGES TO WALL SURFACES.
2. AT EXISTING STAIRS REMOVE AIR TRANSFER GRILL AND INFILL WALL PAINT TO MATCH ADJACENT WALLS
3. SEE SHEET A8.01 FOR ELEVATOR REFURBISHMENT
4. NOTE SOME EXISTING WALLS TO HAVE EXTENSIONS ADDED ABOVE CEILING. COORIDNATE WITH EMP AS REQUIRED

FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW WALL OR INFILL
- EXISTING WALL TO BE EXTENDED ABOVE CEILING
- EXISTING FLOORING TO REMAIN
- NEW CARPETING
- NEW VINYL FLOORING

SEE SHEET A9.01 FOR ADDITIONAL INFORMATION REGARDING FINISHES

SWATT | MIERS ARCHITECTS
5845 DOYLE STREET
SUITE 104
EMERYVILLE, CA 94608
TEL. 510 985 9779
FAX. 510 985 0116
WWW.SWATTMIERS.COM

LICENSED ARCHITECT GEORGE MIERS No. C-10467 STATE OF CALIFORNIA 08-31-2023

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Apr 30 2022
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev	Date	Description
	11/05/2021	Permit Submittal
	9/06/2022	Issued for Bid

Drawn By	HE
Checked By	JH
Job. No.	1919
Scale	As indicated

Reference North

Drawing Title

FLOOR PLAN -LEVEL 1 WEST

A2.11

Sheet

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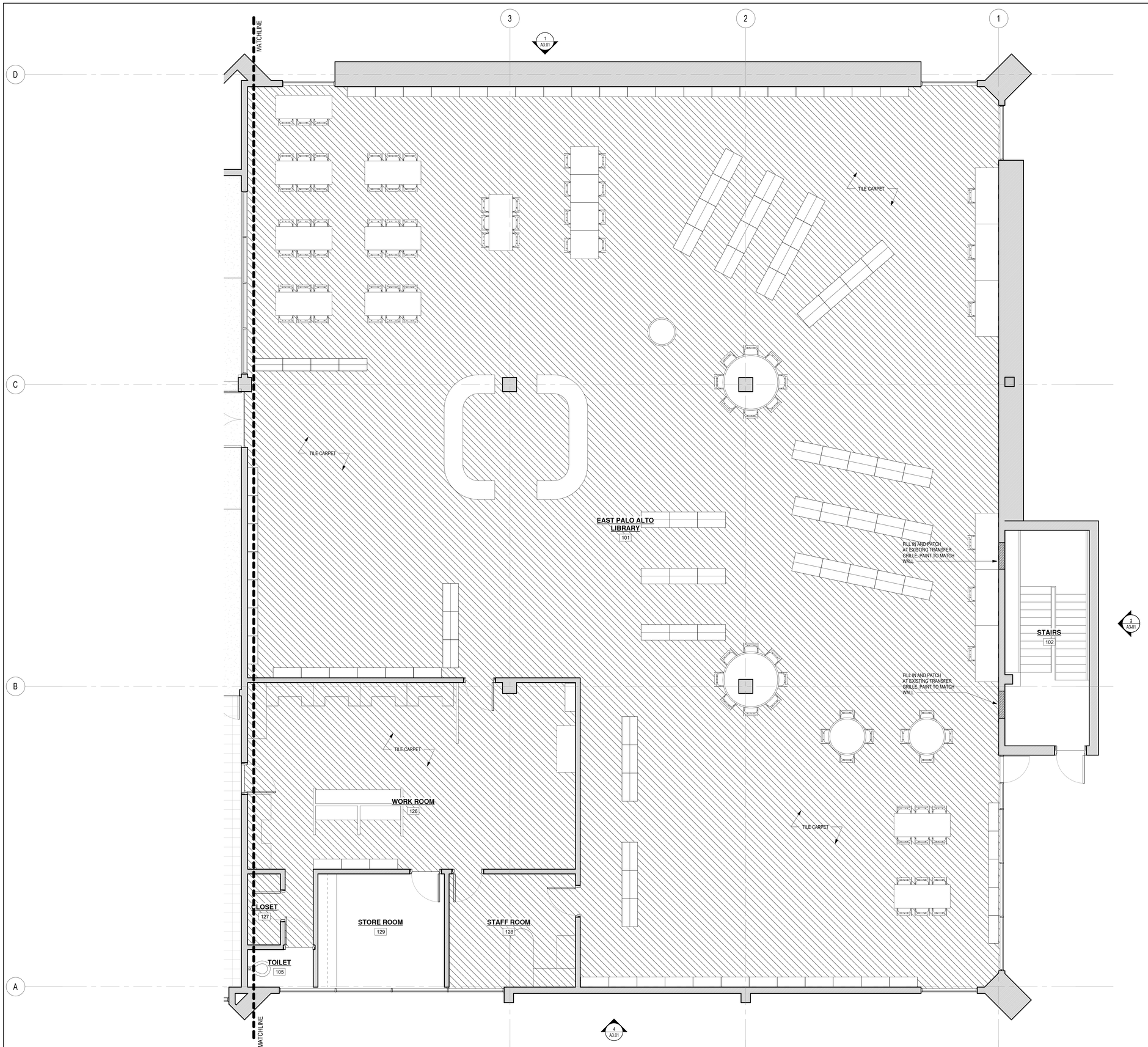

1 LEVEL 1 - EAST
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A9.01 FOR FINISH SCHEDULE. FINISH SCHEDULE IDENTIFIES CHANGES TO WALL SURFACES.
2. AT EXISTING STAIRS REMOVE AIR TRANSFER GRILL AND INFILL WALL PAINT TO MATCH ADJACENT WALLS
3. SEE SHEET A8.01 FOR ELEVATOR REFURBISHMENT
4. NOTE SOME EXISTING WALLS TO HAVE EXTENSIONS ADDED ABOVE CEILING. COORIDNATE WITH EMP AS REQUIRED

FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW WALL OR INFILL
- EXISTING WALL TO BE EXTENDED ABOVE CEILING
- EXISTING FLOORING TO REMAIN
- NEW CARPETING
- NEW VINYL FLOORING

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Reference North

Drawing Title

FLOOR PLAN - LEVEL 1 EAST

A2.12

Sheet

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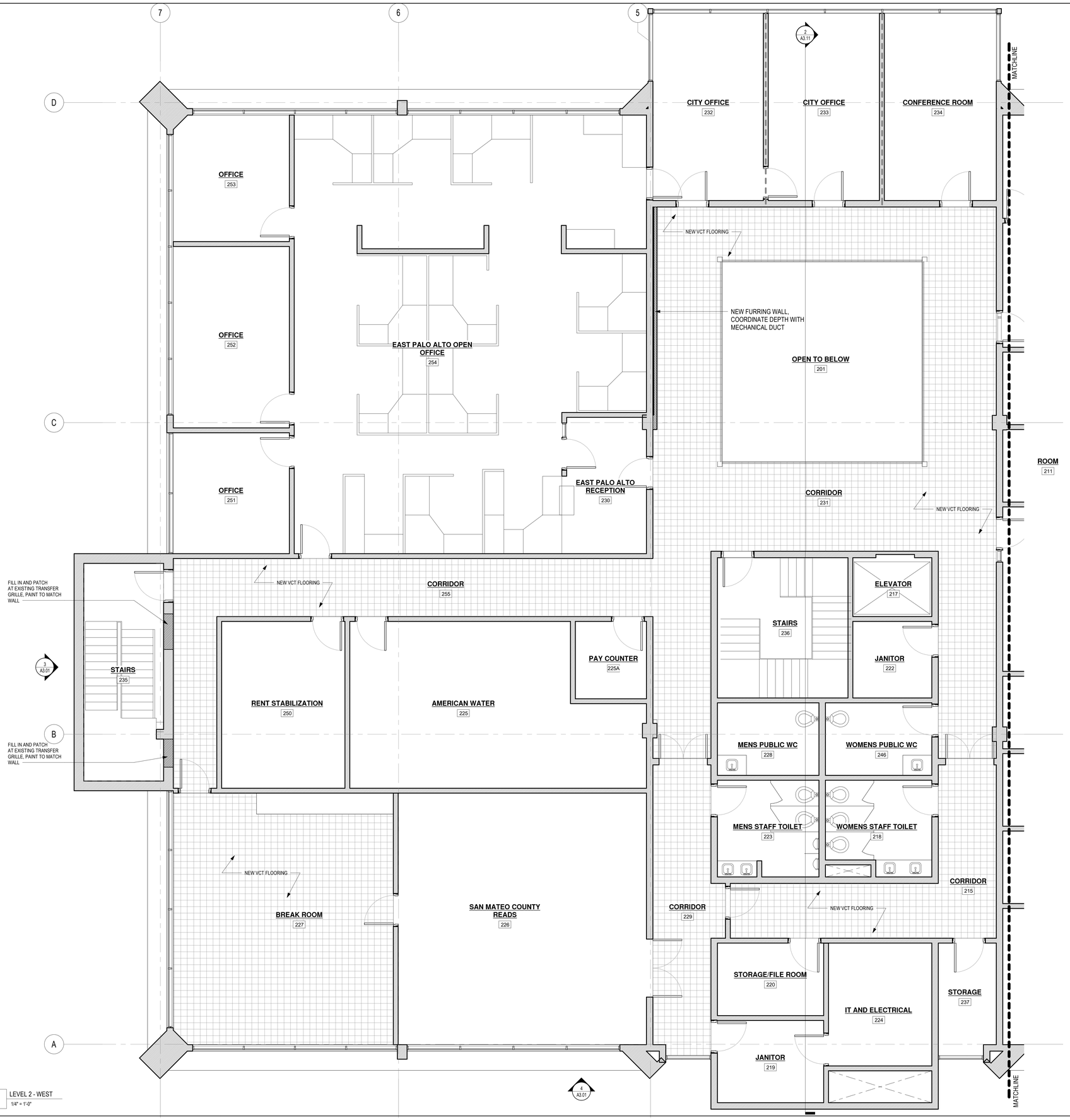

1 LEVEL 2 - WEST
1/4" = 1'-0"

2/8/2022 2:58:22 PM

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A9.01 FOR FINISH SCHEDULE. FINISH SCHEDULE IDENTIFIES CHANGES TO WALL SURFACES.
2. AT EXISTING STAIRS REMOVE AIR TRANSFER GRILL AND INFILL WALL PAINT TO MATCH ADJACENT WALLS
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FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW WALL OR INFILL
- EXISTING WALL TO BE EXTENDED ABOVE CEILING
- EXISTING FLOORING TO REMAIN
- NEW CARPETING
- NEW VINYL FLOORING

SEE SHEET A9.01 FOR ADDITIONAL INFORMATION REGARDING FINISHES

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Reference North

Drawing Title

FLOOR PLAN - LEVEL 2 WEST

A2.13

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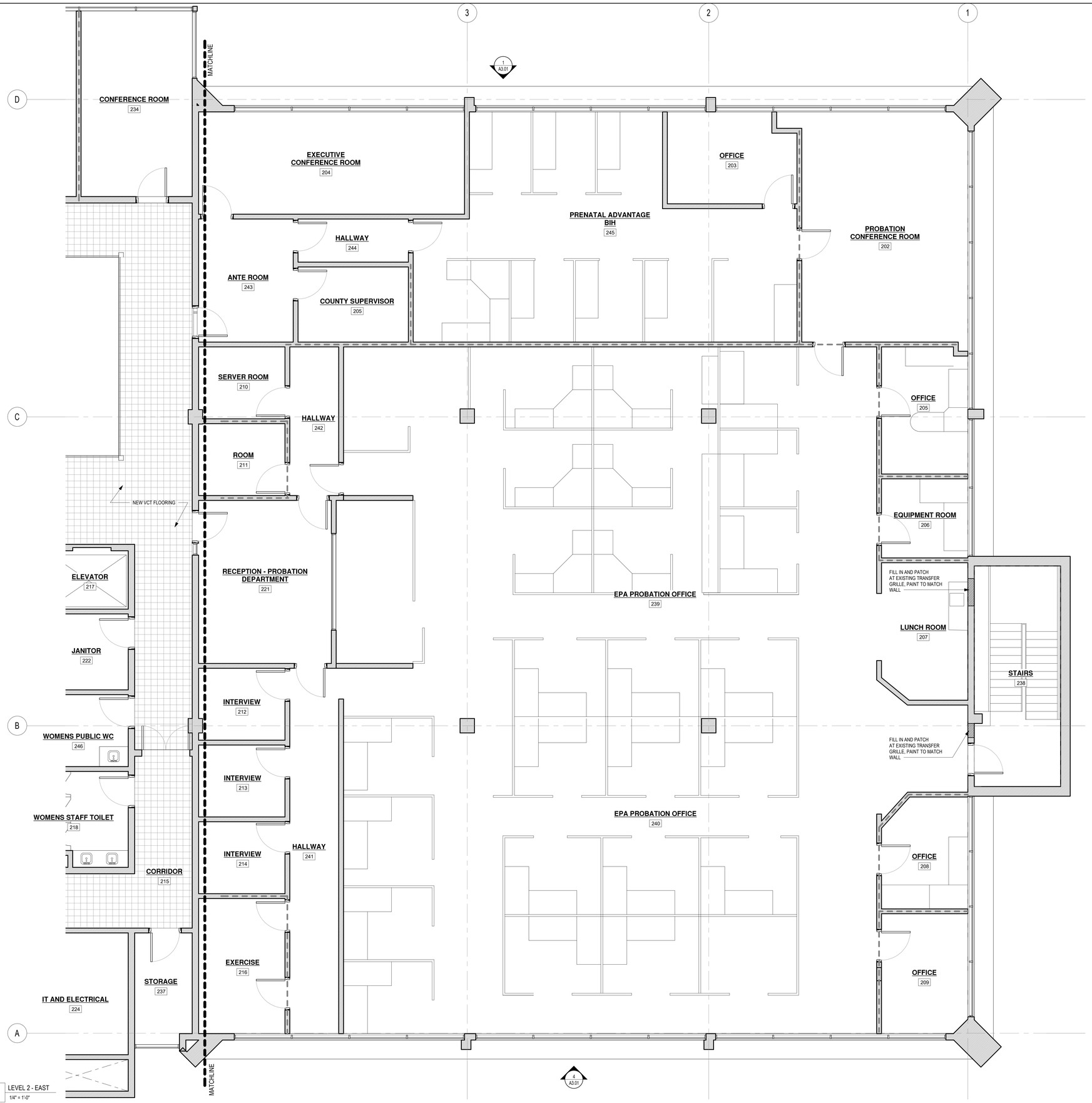

1 LEVEL 2 - EAST
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A9.01 FOR FINISH SCHEDULE. FINISH SCHEDULE IDENTIFIES CHANGES TO WALL SURFACES.
2. AT EXISTING STAIRS REMOVE AIR TRANSFER GRILL AND INFILL WALL PAINT TO MATCH ADJACENT WALLS
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FLOOR PLAN - LEVEL 2 EAST

A2.14

Sheet

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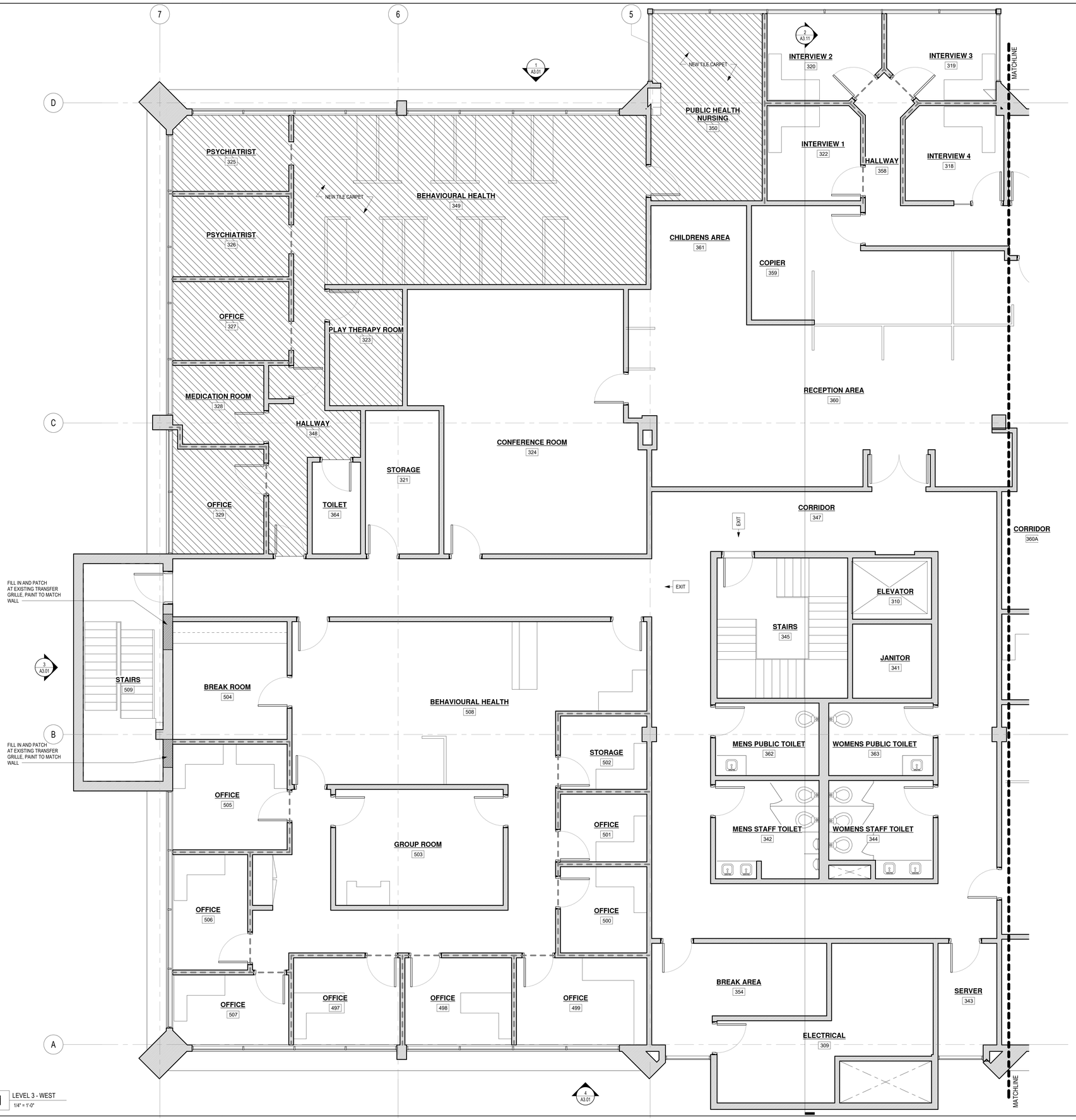

1 LEVEL 3 - WEST
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A9.01 FOR FINISH SCHEDULE. FINISH SCHEDULE IDENTIFIES CHANGES TO WALL SURFACES.
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Job. No.	1919
Scale	As indicated

Drawing Title
FLOOR PLAN - LEVEL 3 WEST

A2.15
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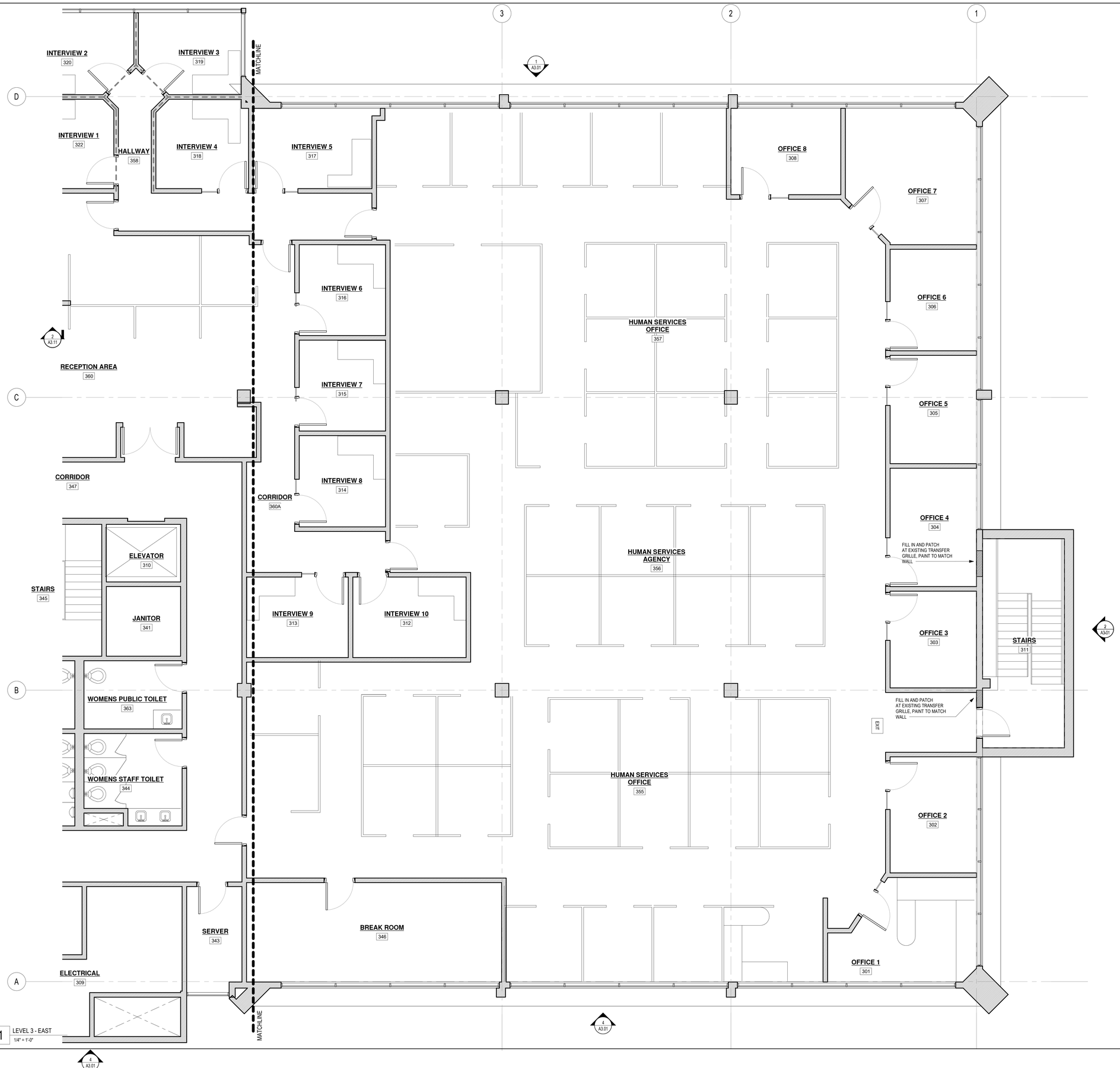

1 LEVEL 3 - EAST
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A9.01 FOR FINISH SCHEDULE. FINISH SCHEDULE IDENTIFIES CHANGES TO WALL SURFACES.
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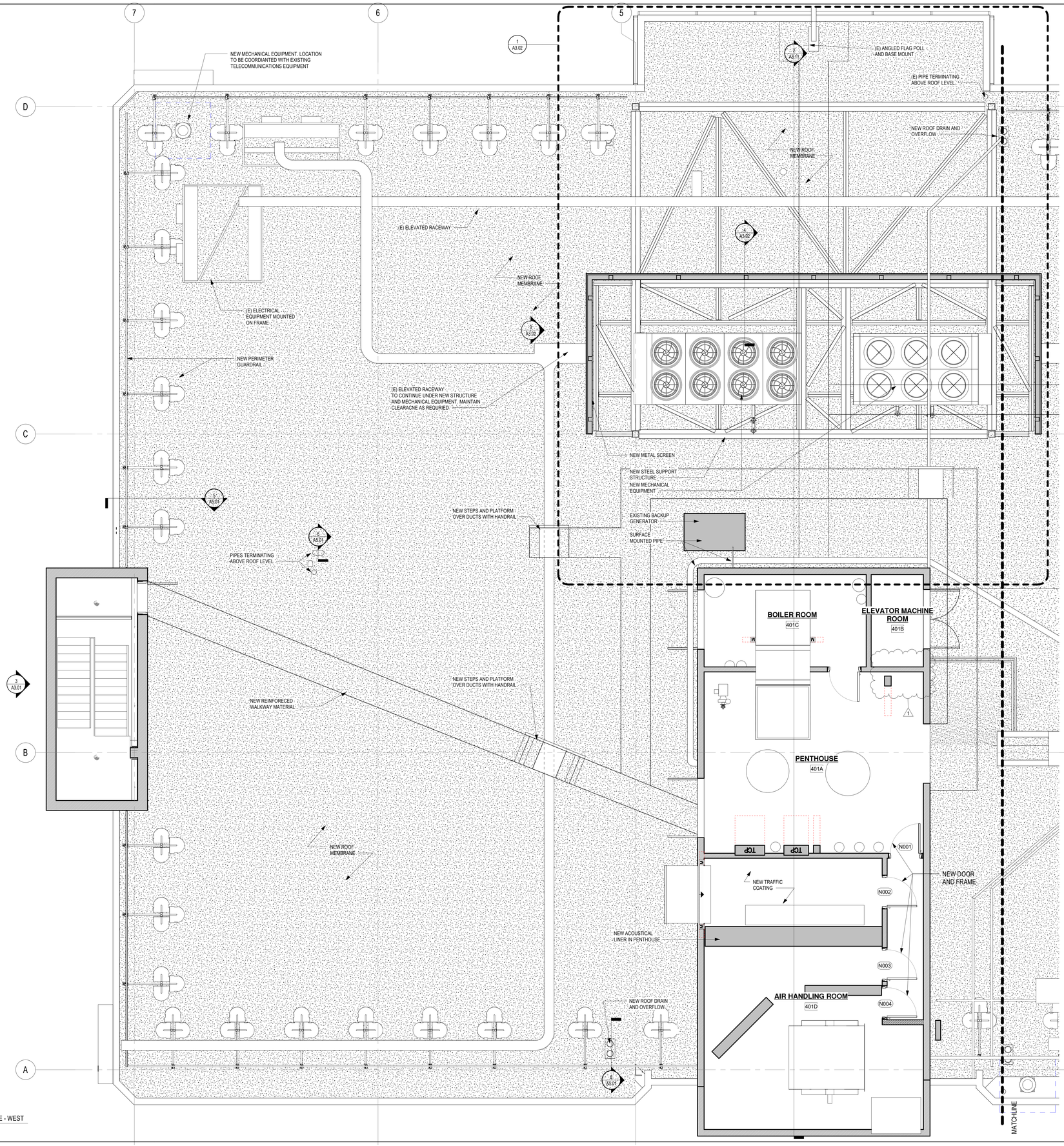
FLOOR PLAN - LEVEL 3 EAST

A2.16

Sheet

2/6/2022 2:58:29 PM



1 LEVEL 4 - PENTHOUSE - WEST
1/4" = 1'-0"

2/10/2022 4:53:39 PM

ROOF PLAN GENERAL NOTES

1. PREPARE ROOF FOR INSTALLATION OF NEW ROOFING MEMBRANE, SEE SPECIFICATIONS FOR MORE INFORMATION.
2. EXISTING REINFORCED ROOFING PATHWAYS AND STEPS TO BE REMOVED.
3. NEW REINFORCED ROOFING PATHWAYS AND STEPS TO BE INSTALLED TO MATCH EXISTING. MAINTAIN ACCESS TO ALL EQUIPMENT AS WAS PREVIOUSLY AVAILABLE.
4. EXISTING ROOF DRAINS TO BE REPLACED, TYPICAL
5. EXISTING TELECOM EQUIPMENT AND RACEWAYS TO REMAIN
6. EXISTING DOORS AND PARTITION INSIDE OF PENTHOUSE TO BE REMOVED AND REPLACED WHERE INDICATED.
7. EXISTING STAIRS NOTED TO REMAIN MAY NEED TO BE TEMPORARILY REMOVED FOR REROOFING. CONTRACTOR TO REMOVE, PROTECT, AND REINSTALL AS NECESSARY.
8. SEE MECHANICAL AND STRUCTURAL DRAWINGS TO COORDINATE EQUIPMENT TO BE INSTALLED AND REMOVED.

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1	2/04/2022	Permit Revisions
	9/06/2022	Issued for Bid

Drawn By	HE
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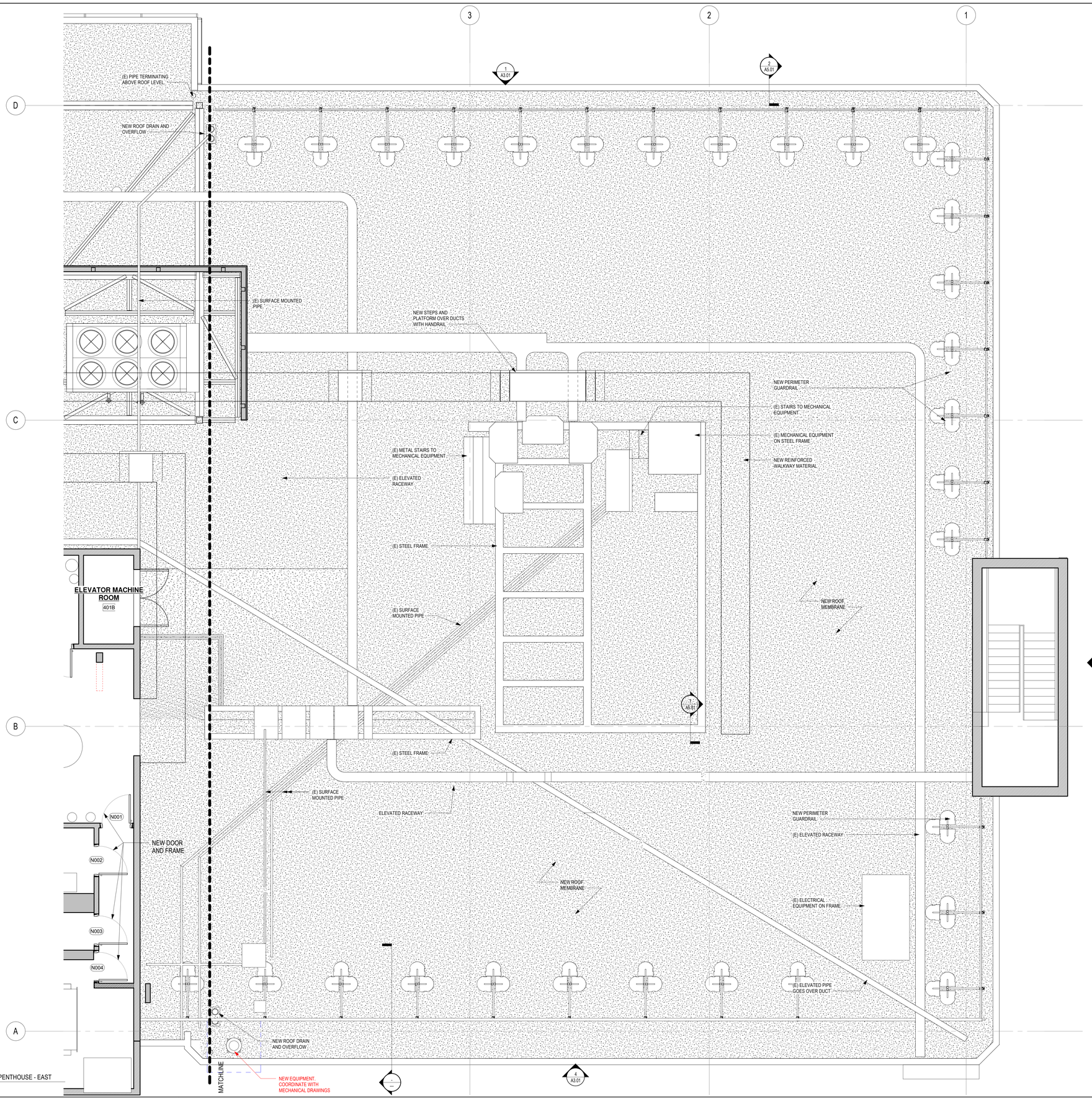
Job. No.	1919
Scale	As indicated

Drawing Title

FLOOR PLAN - PENTHOUSE WEST

A2.17

Sheet



1 LEVEL 4 - PENTHOUSE - EAST
1/4" = 1'-0"

2/6/2022 1:58:38 PM

ROOF PLAN GENERAL NOTES

1. PREPARE ROOF FOR INSTALLATION OF NEW ROOFING MEMBRANE, SEE SPECIFICATIONS FOR MORE INFORMATION.
2. EXISTING REINFORCED ROOFING PATHWAYS AND STEPS TO BE REMOVED.
3. NEW REINFORCED ROOFING PATHWAYS AND STEPS TO BE INSTALLED TO MATCH EXISTING. MAINTAIN ACCESS TO ALL EQUIPMENT AS WAS PREVIOUSLY AVAILABLE.
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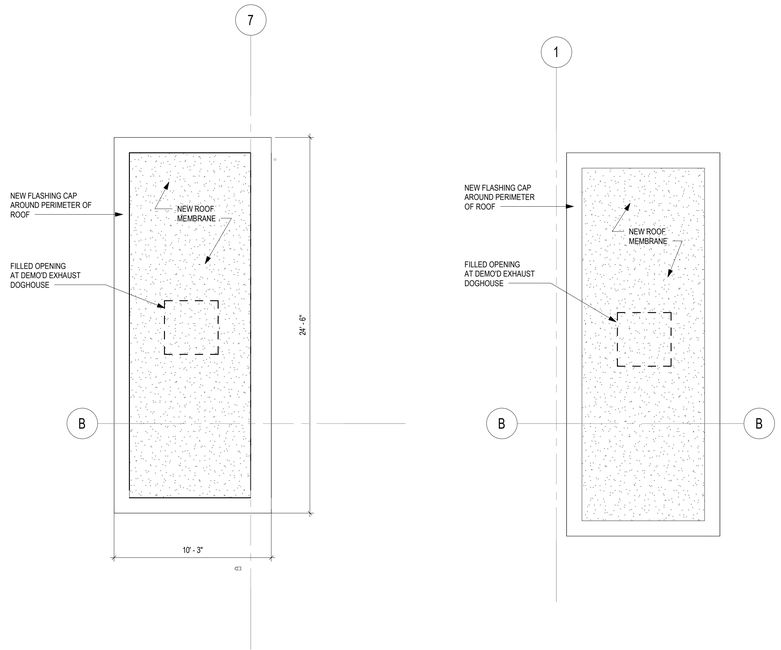
Drawing Title

FLOOR PLAN - PENTHOUSE EAST

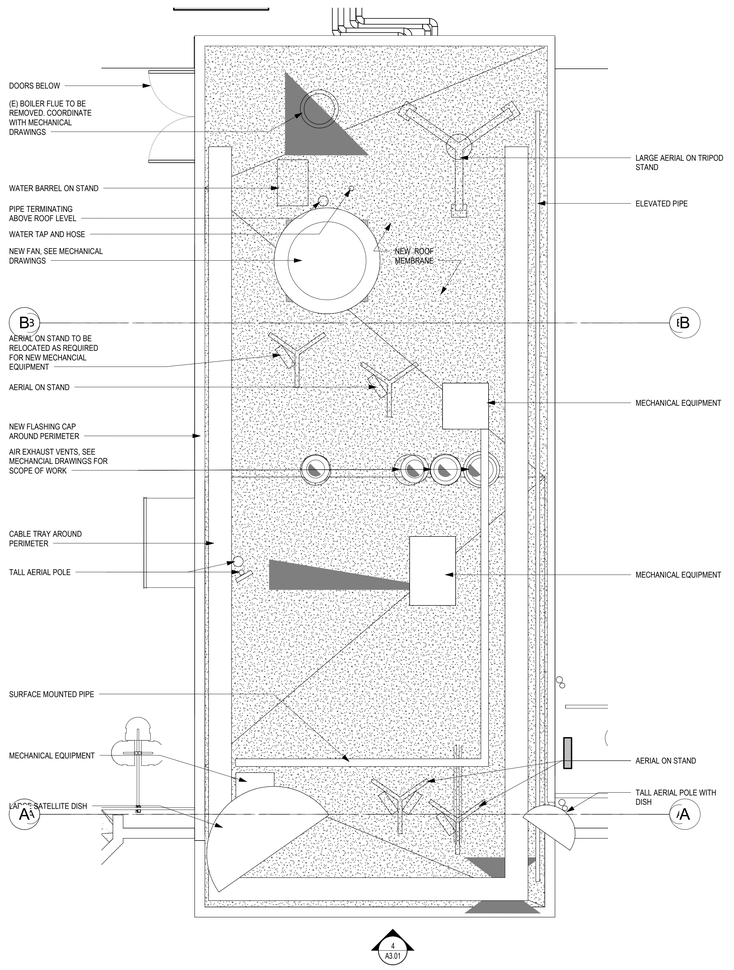
A2.18

Sheet



5 WEST STAIR TOWER ROOF
1/4" = 1'-0"

4 EAST STAIR TOWER ROOF
1/4" = 1'-0"



1 OVERALL PLAN - PENTHOUSE ROOF PLAN
1/4" = 1'-0"

2/8/2022 2:58:40 PM

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Checked By	Checker
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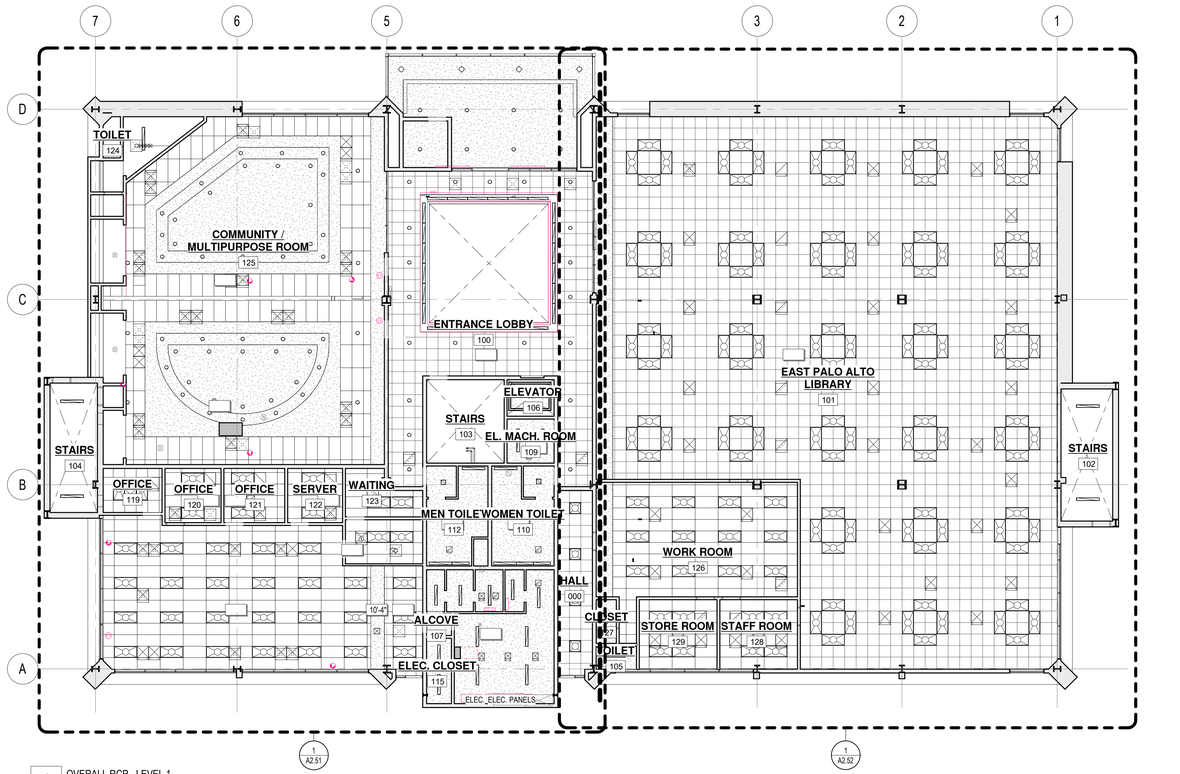
Scale	1/4" = 1'-0"

Drawing Title

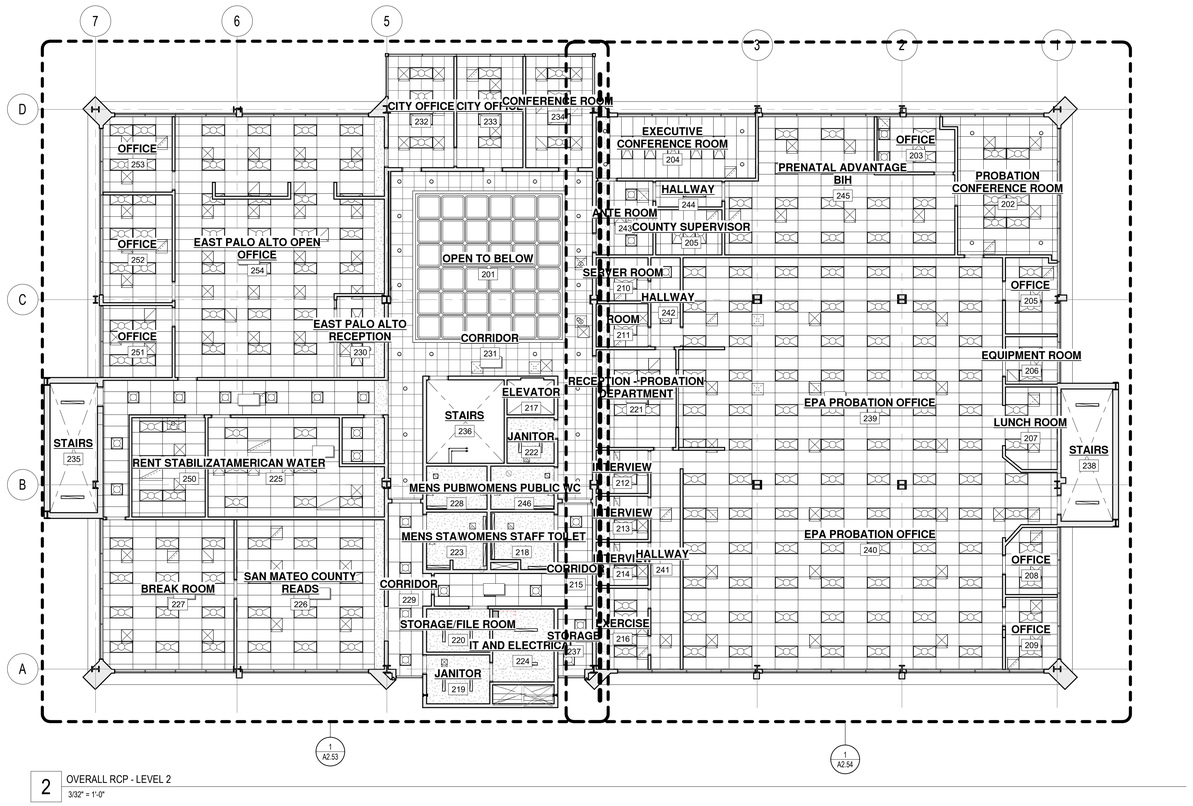
PENTHOUSE & STAIR ROOF PLAN

A2.19

Sheet



1 OVERALL RCP - LEVEL 1
3/32" = 1'-0"



2 OVERALL RCP - LEVEL 2
3/32" = 1'-0"

CEILING PLAN GENERAL NOTES

1. ALL CEILING HEIGHTS ARE TO FINISHED SURFACE ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
2. AT AREAS WITH ACOUSTIC TILE CEILING TO REMAIN, CAREFULLY REMOVE AND STORE ALL MATERIALS FOR REINSTALLATION AFTER HVAC WORK. CONTRACTOR TO REPLACE ANY BROKEN OR DAMAGED ITEMS.
3. LIGHTING IS SHOWN FOR LOCATION AND LAYOUT ONLY; SEE SPECIFICATIONS FOR FIXTURE TYPES.
4. DIMENSIONS ARE TO FACE OF FINISH, U.O.N. - COORDINATE WITH PARTITION TYPES SHEETS A9.01 & A9.02
5. AIR TERMINALS ARE SHOWN FOR LOCATION ONLY, SEE MEP DRAWINGS AIR TERMINAL SIZE, CONFIGURATION, FLOW RATES, ETC.
6. LOW VOLTAGE ACCESSORIES (FIRE ALARMS, SPEAKERS, STROBES, ETC.) ARE SHOWN FOR LOCATION ONLY, SEE ELECTRICAL PLANS FOR DIMENSIONS AND SPECIFICATIONS
7. WHERE FIELD DIMENSIONS CONFLICT WITH ARCHITECTURAL PLANS, NOTIFY ARCHITECT OF DISCREPANCY IMMEDIATELY.

KEY NOTES

SWATT | MIERS ARCHITECTS

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Drawing Title

OVERALL REFLECTED CEILING PLAN - LEVEL 1 & 2

A2.31

Sheet

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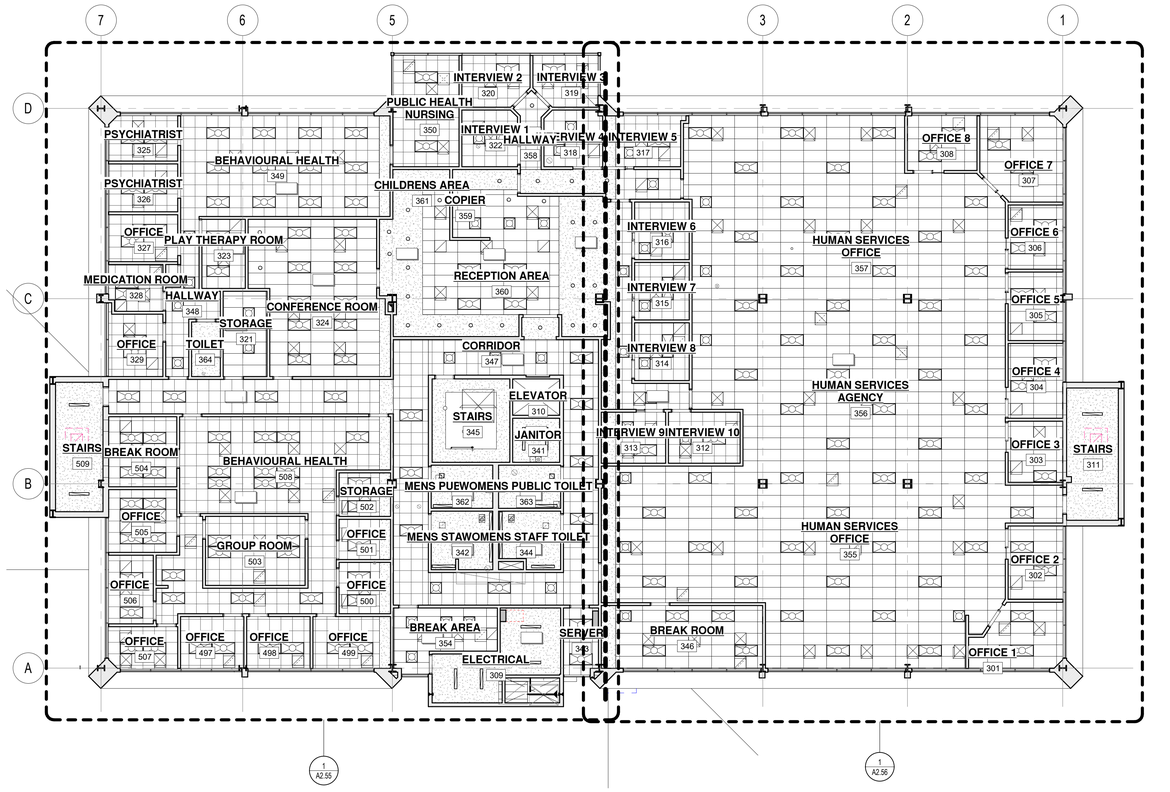

1 OVERALL RCP - LEVEL 3

3/32" = 1'-0"

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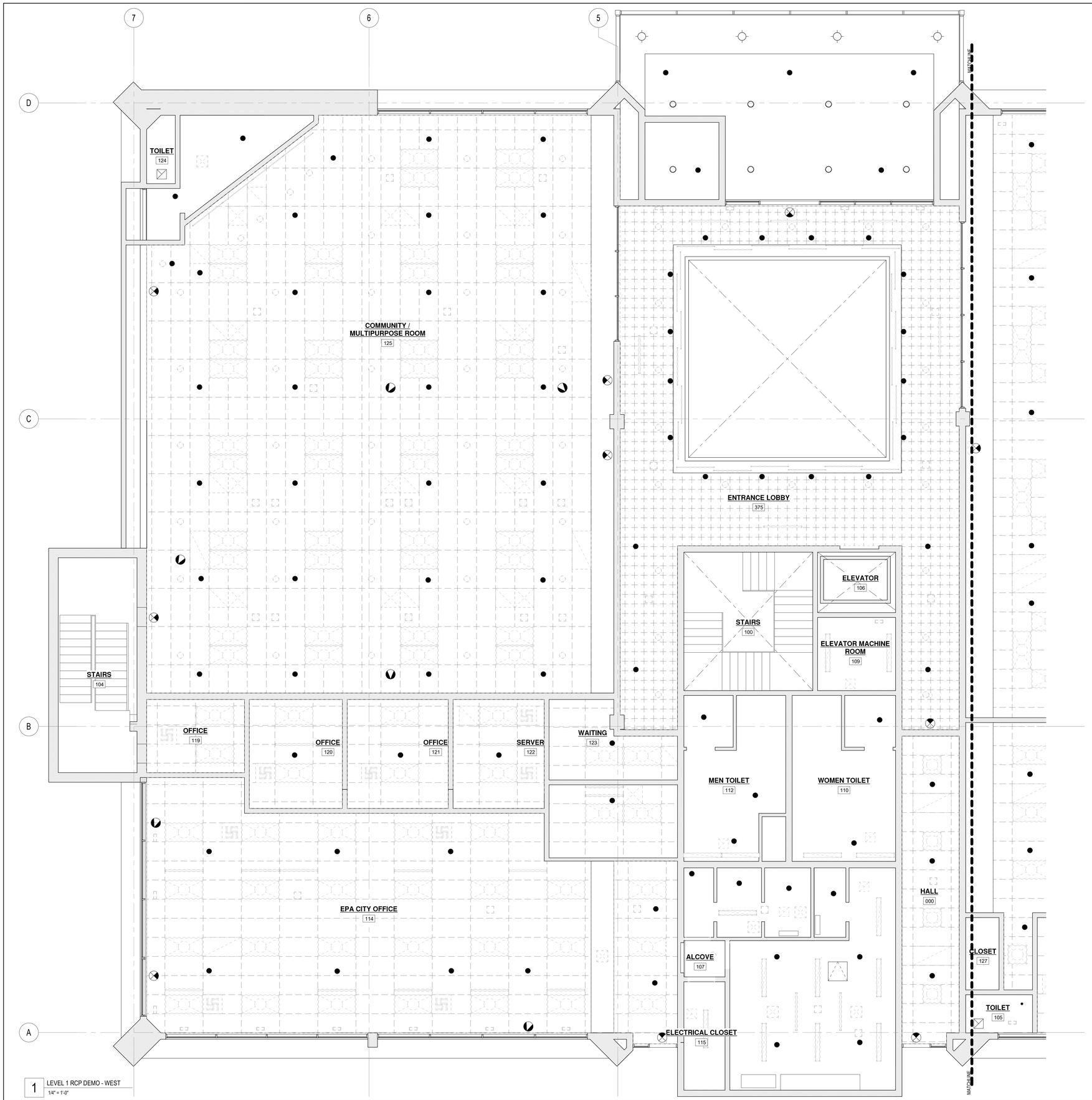
Drawing Title

OVERALL REFLECTED CEILING PLAN - LEVEL 3

A2.32

Sheet

2/6/2022 2:58:48 PM



1 LEVEL 1 RCP DEMO - WEST
1/4" = 1'-0"

SYMBOL LEGEND

MECHANICAL FIXTURE SYMBOL

- 2x4 SUPPLY AIR GRILLE
- 2x4 SUPPLY AIR GRILLE TO BE REMOVED
- 2x4 RETURN AIR GRILLE
- 2x4 RETURN AIR GRILLE TO BE REMOVED
- 2x2 SUPPLY AIR GRILLE
- 2x2 SUPPLY AIR GRILLE TO BE REMOVED
- 2x2 RETURN AIR GRILLE
- 2x2 RETURN AIR GRILLE TO BE REMOVED
- 10"x4" LINEAR SLOT
- 10"x4" LINEAR SLOT TO BE REMOVED
- 4' LINEAR SLOT
- 4' LINEAR SLOT TO BE REMOVED
- 2x2 4 WAY SUPPLY AIR GRILLE
- 2x2 4 WAY SUPPLY AIR GRILLE TO BE REMOVED
- 12"x12" EXHAUST FAN
- 12"x12" EXHAUST FAN TO BE REMOVED
- CEILING GRID TO REMAIN
  SEE FINISH SCHEDULE FOR TILE INFORMATION
- CEILING GRID TO BE REMOVED

LIGHT FIXTURE SYMBOL

- LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS
- RECESSED DOWNLIGHT FIXTURE TO BE REMOVED
- 2x4 TROFFER LIGHT
- 2x4 TROFFER LIGHT TO BE REMOVED
- 2x2 TROFFER LIGHT
- 2x2 TROFFER LIGHT TO BE REMOVED
- RECESSED STRIP LIGHT FIXTURE
- RECESSED STRIP LIGHT FIXTURE TO BE REMOVED
- RECESSED AIMABLE LIGHT FIXTURE
- RECESSED AIMABLE LIGHT FIXTURE TO BE REMOVED
- SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED
- EMERGENCY EXIT SIGN- TO BE REPLACED

OTHER

- RECESSED SPEAKER
- FIRE SPRINKLER
- SMOKE ALARM
- ACCESS PANEL
- PROJECTOR

RCP GENERAL DEMO NOTES

1. ALL ITEMS SHOWN DASHED TO BE REMOVED. COORDINATE WITH FINISH SCHEDULE FOR EXTENT OF CEILING REMOVALS
2. CAREFULLY STORE AND PROTECT FROM DAMAGE ANY ITEMS NOTED TO BE REINSTALLED IN NEW CEILING.
3. COORDINATE DEMOLITION WITH CONSTRUCTION SEQUENCING PLANS
4. COORDINATE DEMOLITION WITH HVAC PLANS TO ENSURE HVAC ITEMS TO REMAIN ARE NOT DAMAGED
5. SPRINKLER HEADS TO BE REMOVED AND RELOCATED TO COORDINATE WITH NEW MECHANICAL ROUTING
6. COORDINATE WITH HAZARDOUS MATERIALS REPORT FOR PROCEDURES TO IMPLEMENT DURING DEMOLITION, INCLUDING IDENTIFICATION OF POSSIBLE HAZARDOUS MATERIAL BEFORE COMMENCING DEMO.
7. ALL ITEMS SHALL BE ASSESSED FOR HAZARDOUS MATERIALS; REVIEW HAZ. MAT REPORT FOR MORE INFORMATION.

SWATT | MIERS ARCHITECTS
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LICENSED ARCHITECT GEORGE MIERS No. C-10467 STATE OF CALIFORNIA 8 - 31 - 2022

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Apr 30 2022
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev	Date	Description
	9/06/2022	Issued for Bid

Drawn By	JH
Checked By	JH
Job. No.	1919
Scale	As indicated

Drawing Title
RCP - DEMO - LEVEL 01 WEST

A2.41
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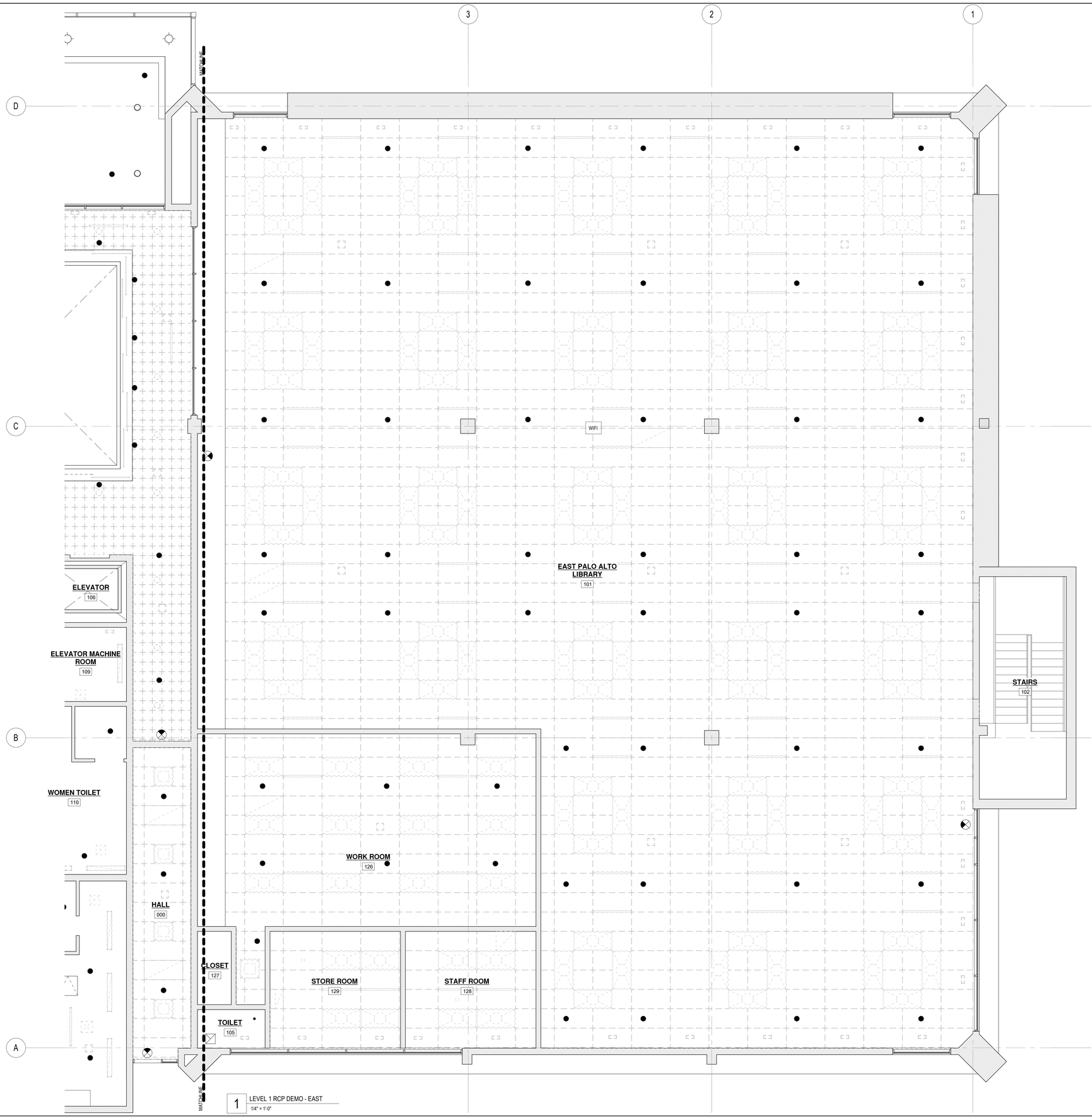

1 LEVEL 1 RCP DEMO - EAST
1/4" = 1'-0"

SYMBOL LEGEND

MECHANICAL FIXTURE SYMBOL

- 2x4 SUPPLY AIR GRILLE
- 2x4 SUPPLY AIR GRILLE TO BE REMOVED
- 2x4 RETURN AIR GRILLE
- 2x4 RETURN AIR GRILLE TO BE REMOVED
- 2x2 SUPPLY AIR GRILLE
- 2x2 SUPPLY AIR GRILLE TO BE REMOVED
- 2x2 RETURN AIR GRILLE
- 2x2 RETURN AIR GRILLE TO BE REMOVED
- 10"x4" LINEAR SLOT
- 10"x4" LINEAR SLOT TO BE REMOVED
- 4' LINEAR SLOT
- 4' LINEAR SLOT TO BE REMOVED
- 2x2 4 WAY SUPPLY AIR GRILLE
- 2x2 4 WAY SUPPLY AIR GRILLE TO BE REMOVED
- 12"x12" EXHAUST FAN
- 12"x12" EXHAUST FAN TO BE REMOVED
- CEILING GRID TO REMAIN
  SEE FINISH SCHEDULE FOR TILE INFORMATION
- CEILING GRID TO BE REMOVED

LIGHT FIXTURE SYMBOL

- LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS
- RECESSED DOWNLIGHT FIXTURE TO BE REMOVED
- 2x4 TROFFER LIGHT
- 2x4 TROFFER LIGHT TO BE REMOVED
- 2x2 TROFFER LIGHT
- 2x2 TROFFER LIGHT TO BE REMOVED
- RECESSED STRIP LIGHT FIXTURE
- RECESSED STRIP LIGHT FIXTURE TO BE REMOVED
- RECESSED AIMABLE LIGHT FIXTURE
- RECESSED AIMABLE LIGHT FIXTURE TO BE REMOVED
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- EMERGENCY EXIT SIGN- TO BE REPLACED

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- RECESSED SPEAKER
- FIRE SPRINKLER
- SD SMOKE ALARM
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Drawing Title

RCP - DEMO - LEVEL 01 EAST

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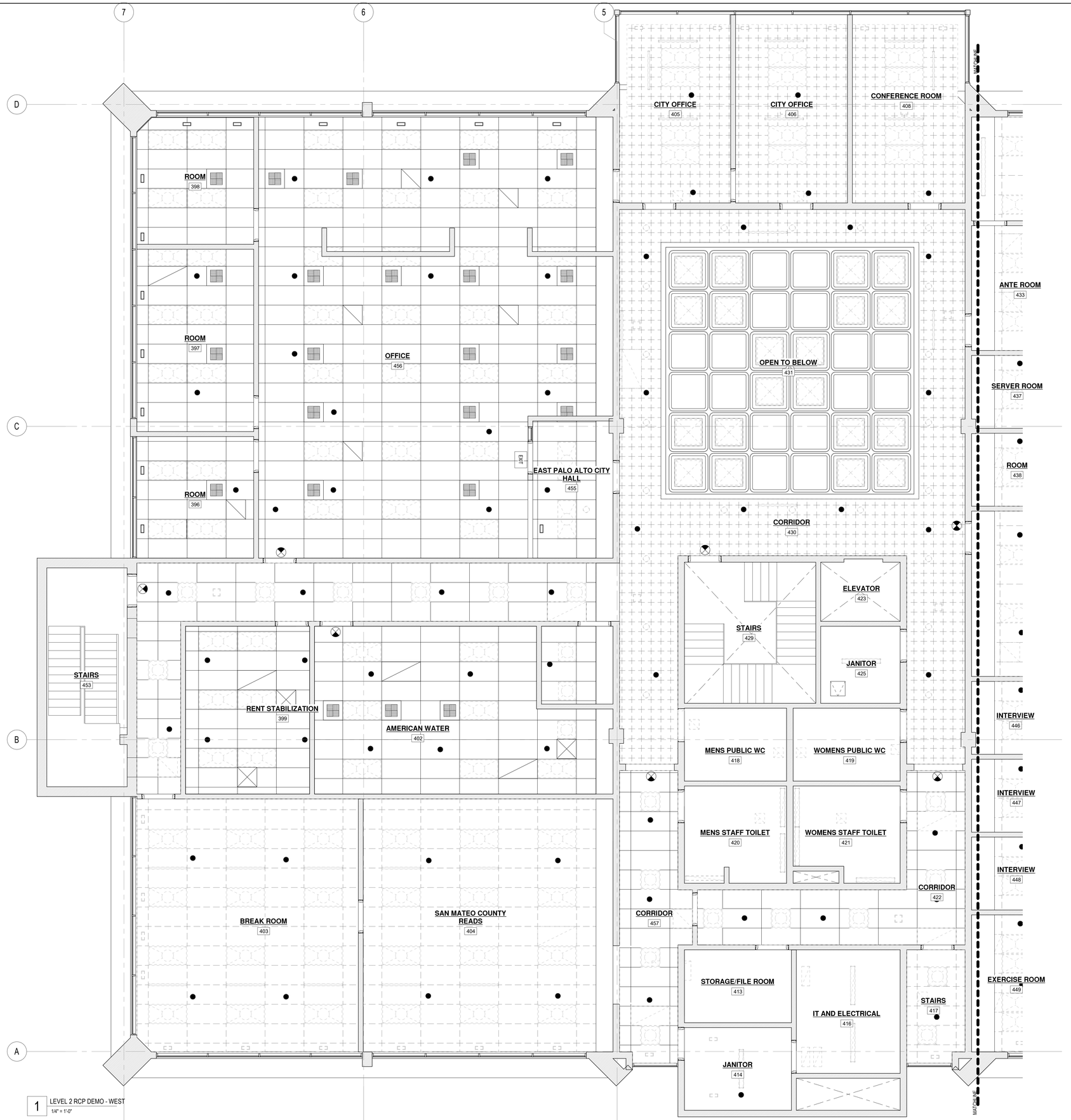

1 LEVEL 2 RCP DEMO - WEST
1/4" = 1'-0"

SYMBOL LEGEND

MECHANICAL FIXTURE SYMBOL

- 2x4 SUPPLY AIR GRILLE
- 2x4 SUPPLY AIR GRILLE TO BE REMOVED
- 2x4 RETURN AIR GRILLE
- 2x4 RETURN AIR GRILLE TO BE REMOVED
- 2x2 SUPPLY AIR GRILLE
- 2x2 SUPPLY AIR GRILLE TO BE REMOVED
- 2x2 RETURN AIR GRILLE
- 2x2 RETURN AIR GRILLE TO BE REMOVED
- 10"x4" LINEAR SLOT
- 10"x4" LINEAR SLOT TO BE REMOVED
- 4' LINEAR SLOT
- 4' LINEAR SLOT TO BE REMOVED
- 2x2 4 WAY SUPPLY AIR GRILLE
- 2x2 4 WAY SUPPLY AIR GRILLE TO BE REMOVED
- 12"x12" EXHAUST FAN
- 12"x12" EXHAUST FAN TO BE REMOVED
- CEILING GRID TO REMAIN
  SEE FINISH SCHEDULE FOR TILE INFORMATION
- CEILING GRID TO BE REMOVED

LIGHT FIXTURE SYMBOL

- LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS
- RECESSED DOWNLIGHT FIXTURE TO BE REMOVED
- 2x4 TROFFER LIGHT
- 2x4 TROFFER LIGHT TO BE REMOVED
- 2x2 TROFFER LIGHT
- 2x2 TROFFER LIGHT TO BE REMOVED
- RECESSED STRIP LIGHT FIXTURE
- RECESSED STRIP LIGHT FIXTURE TO BE REMOVED
- RECESSED AIMABLE LIGHT FIXTURE
- RECESSED AIMABLE LIGHT FIXTURE TO BE REMOVED
- SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED
- EMERGENCY EXIT SIGN- TO BE REPLACED

OTHER

- RECESSED SPEAKER
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- ACCESS PANEL
- PROJECTOR

RCP GENERAL DEMO NOTES

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RCP - DEMO - LEVEL 02 WEST

A2.43
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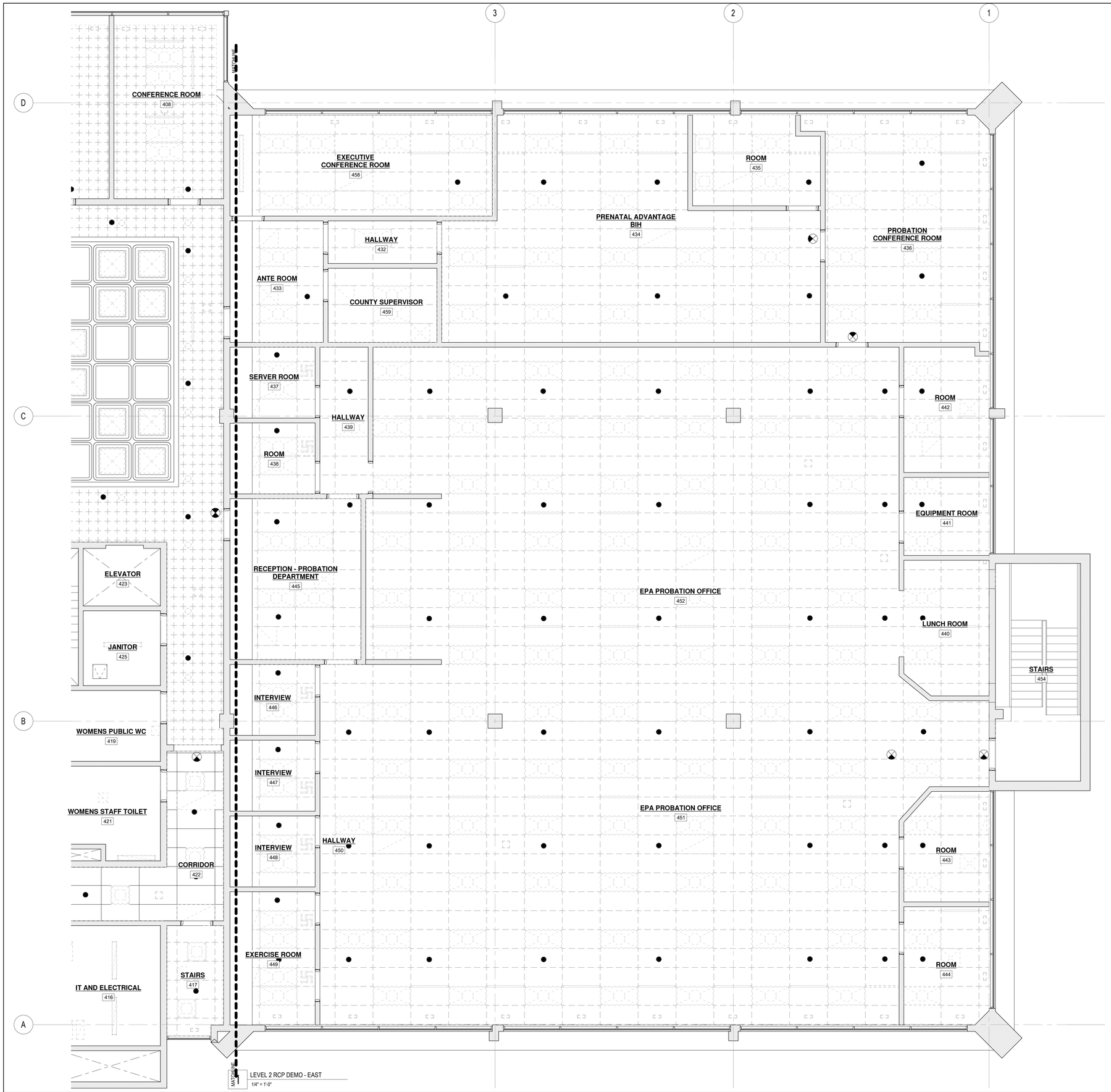

LEVEL 2 RCP DEMO - EAST

1/4" = 1'-0"

SYMBOL LEGEND

MECHANICAL FIXTURE SYMBOL

- 2x4 SUPPLY AIR GRILLE
- 2x4 SUPPLY AIR GRILLE TO BE REMOVED
- 2x4 RETURN AIR GRILLE
- 2x4 RETURN AIR GRILLE TO BE REMOVED
- 2x2 SUPPLY AIR GRILLE
- 2x2 SUPPLY AIR GRILLE TO BE REMOVED
- 2x2 RETURN AIR GRILLE
- 2x2 RETURN AIR GRILLE TO BE REMOVED
- 10"x4" LINEAR SLOT
- 10"x4" LINEAR SLOT TO BE REMOVED
- 4' LINEAR SLOT
- 4' LINEAR SLOT TO BE REMOVED
- 2x2 4 WAY SUPPLY AIR GRILLE
- 2x2 4 WAY SUPPLY AIR GRILLE TO BE REMOVED
- 12"x12" EXHAUST FAN
- 12"x12" EXHAUST FAN TO BE REMOVED
- CEILING GRID TO REMAIN
  SEE FINISH SCHEDULE FOR TILE INFORMATION
- CEILING GRID TO BE REMOVED

LIGHT FIXTURE SYMBOL

- LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS
- RECESSED DOWNLIGHT FIXTURE TO BE REMOVED
- 2x4 TROFFER LIGHT
- 2x4 TROFFER LIGHT TO BE REMOVED
- 2x2 TROFFER LIGHT
- 2x2 TROFFER LIGHT TO BE REMOVED
- RECESSED STRIP LIGHT FIXTURE
- RECESSED STRIP LIGHT FIXTURE TO BE REMOVED
- RECESSED AIMABLE LIGHT FIXTURE
- RECESSED AIMABLE LIGHT FIXTURE TO BE REMOVED
- SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED
- EMERGENCY EXIT SIGN- TO BE REPLACED

OTHER

- RECESSED SPEAKER
- FIRE SPRINKLER
- SMOKE ALARM
- ACCESS PANEL
- PROJECTOR

RCP GENERAL DEMO NOTES

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Drawing Title

RCP - DEMO - LEVEL 02 EAST

A2.44

Sheet

2/8/2022 2:58:58 PM

1 LEVEL 3 RCP DEMO - WEST
1/4" = 1'-0"

SYMBOL LEGEND

MECHANICAL FIXTURE SYMBOL
- 2x4 SUPPLY AIR GRILLE
- 2x4 SUPPLY AIR GRILLE TO BE REMOVED
- 2x4 RETURN AIR GRILLE
- 2x4 RETURN AIR GRILLE TO BE REMOVED
- 2x2 SUPPLY AIR GRILLE
- 2x2 SUPPLY AIR GRILLE TO BE REMOVED
- 2x2 RETURN AIR GRILLE
- 2x2 RETURN AIR GRILLE TO BE REMOVED
- 10"x4" LINEAR SLOT
- 10"x4" LINEAR SLOT TO BE REMOVED
- 4' LINEAR SLOT
- 4' LINEAR SLOT TO BE REMOVED
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- 2x2 4 WAY SUPPLY AIR GRILLE TO BE REMOVED
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- 12"x12" EXHAUST FAN TO BE REMOVED
- CEILING GRID TO REMAIN
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- CEILING GRID TO BE REMOVED

LIGHT FIXTURE SYMBOL
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- RECESSED DOWNLIGHT FIXTURE TO BE REMOVED
- 2x4 TROFFER LIGHT
- 2x4 TROFFER LIGHT TO BE REMOVED
- 2x2 TROFFER LIGHT
- 2x2 TROFFER LIGHT TO BE REMOVED
- RECESSED STRIP LIGHT FIXTURE
- RECESSED STRIP LIGHT FIXTURE TO BE REMOVED
- RECESSED AIMABLE LIGHT FIXTURE
- RECESSED AIMABLE LIGHT FIXTURE TO BE REMOVED
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OTHER
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- FIRE SPRINKLER
- SD SMOKE ALARM
- ACCESS PANEL
- PROJECTOR

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Drawing Title
RCP - DEMO - LEVEL 03 WEST

A2.45
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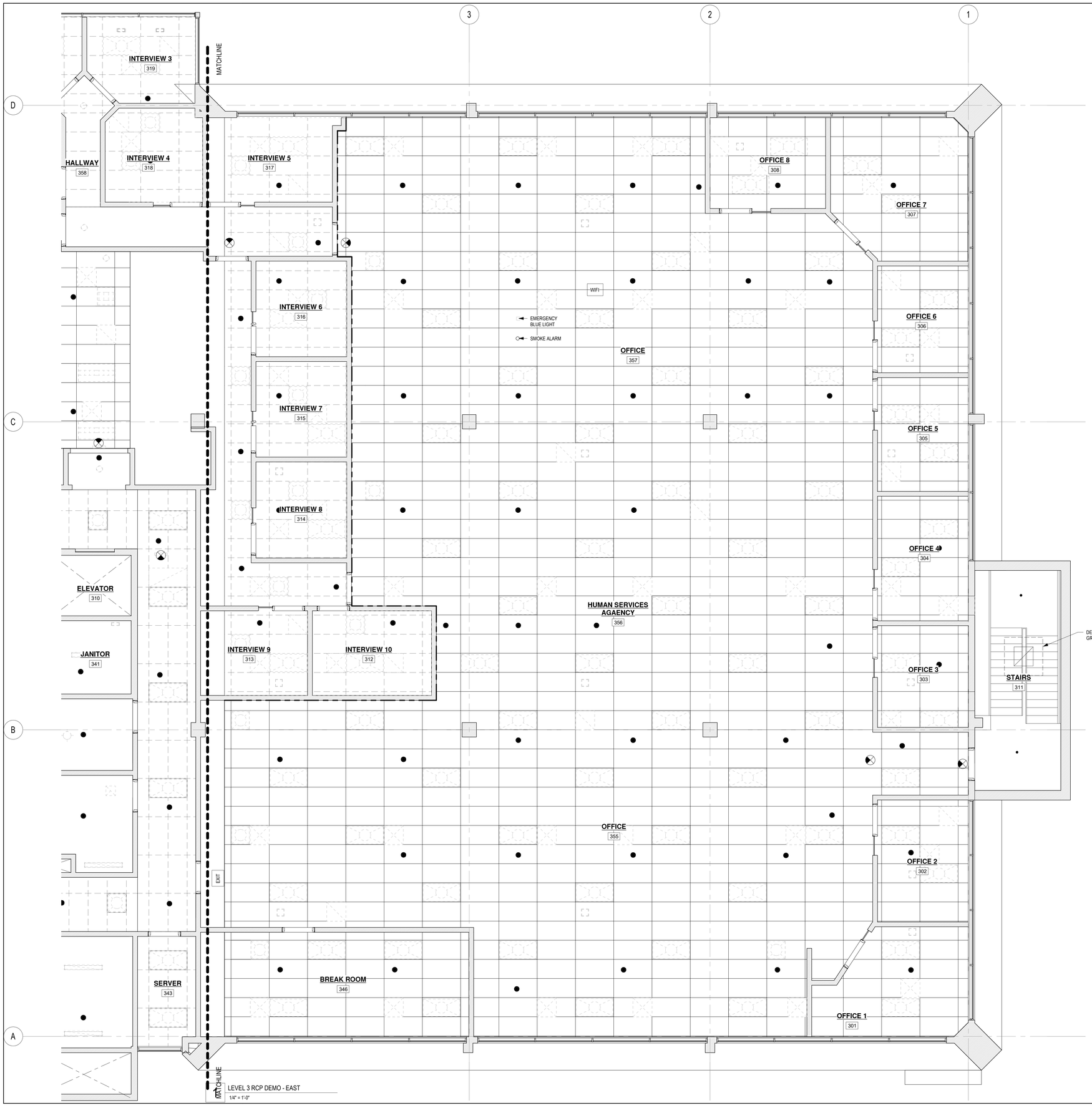

LEVEL 3 RCP DEMO - EAST

1/4" = 1'-0"

SYMBOL LEGEND

MECHANICAL FIXTURE SYMBOL

- 2x4 SUPPLY AIR GRILLE
- 2x4 SUPPLY AIR GRILLE TO BE REMOVED
- 2x4 RETURN AIR GRILLE
- 2x4 RETURN AIR GRILLE TO BE REMOVED
- 2x2 SUPPLY AIR GRILLE
- 2x2 SUPPLY AIR GRILLE TO BE REMOVED
- 2x2 RETURN AIR GRILLE
- 2x2 RETURN AIR GRILLE TO BE REMOVED
- 10"x4" LINEAR SLOT
- 10"x4" LINEAR SLOT TO BE REMOVED
- 4' LINEAR SLOT
- 4' LINEAR SLOT TO BE REMOVED
- 2x2 4 WAY SUPPLY AIR GRILLE
- 2x2 4 WAY SUPPLY AIR GRILLE TO BE REMOVED
- 12"x12" EXHAUST FAN
- 12"x12" EXHAUST FAN TO BE REMOVED
- CEILING GRID TO REMAIN
  SEE FINISH SCHEDULE FOR TILE INFORMATION
- CEILING GRID TO BE REMOVED

LIGHT FIXTURE SYMBOL

- LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS
- RECESSED DOWNLIGHT FIXTURE TO BE REMOVED
- 2x4 TROFFER LIGHT
- 2x4 TROFFER LIGHT TO BE REMOVED
- 2x2 TROFFER LIGHT
- 2x2 TROFFER LIGHT TO BE REMOVED
- RECESSED STRIP LIGHT FIXTURE
- RECESSED STRIP LIGHT FIXTURE TO BE REMOVED
- RECESSED AIMABLE LIGHT FIXTURE
- RECESSED AIMABLE LIGHT FIXTURE TO BE REMOVED
- SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED
- EMERGENCY EXIT SIGN- TO BE REPLACED

OTHER

- RECESSED SPEAKER
- FIRE SPRINKLER
- SD SMOKE ALARM
- ACCESS PANEL
- PROJECTOR

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RCP - DEMO - LEVEL 03 EAST

A2.46

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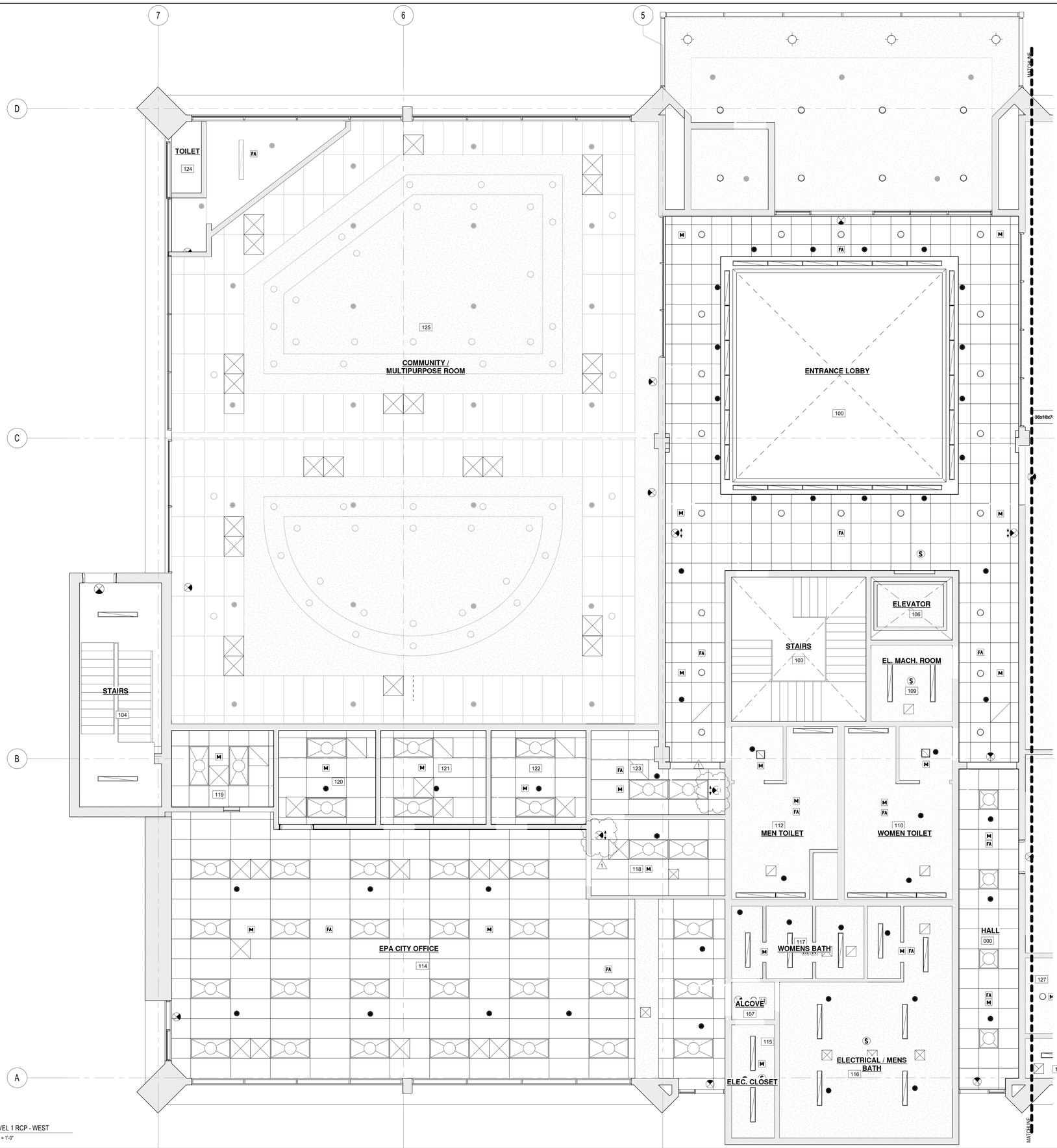

1 LEVEL 1 RCP - WEST
1/4" = 1'-0"

SYMBOL LEGEND

ARCHITECTURAL

- EXISTING SUPPORT GRID TO REMAIN. REFER TO FINISH SCHEDULE FOR MORE INFORMATION
- NEW 2'-0" X 4'-0"ACOUSTIC CEILING TILE & GRID
- NEW 2'-0" X 2'-0"ACOUSTIC CEILING TILE & GRID
- EXISTING GWB SOFFIT TO REMAIN- PATCH AS NECESSARY WHERE AFFECTED BY CONSTRUCTION
- EXISTING WALL TO REMAIN

WALL ANNOTATION

- ACT SYSTEM RUNS OVER TOP OF WALL
- EXTEND WALL 6" ABOVE FINISH CEILING LEVEL SEE 1/A8.01
- ACT SYSTEM TERMINATES AT WALL

MECHANICAL

- 2x4 SUPPLY AIR GRILLE
- 2x4 RETURN AIR GRILLE
- 2x2 SUPPLY AIR GRILLE
- 2x2 RETURN AIR GRILLE
- 10"x4" LINEAR SLOT
- 4' LINEAR SLOT
- 2x2 4 WAY SUPPLY AIR GRILLE
- 12"x12" EXHAUST FAN

ELECTRICAL

- LIGHT FIXTURE TYPE, SEE SPECIFICATIONS
- RECESSED DOWNLIGHT FIXTURE
- 2x4 TROFFER LIGHT
- 2x2 TROFFER LIGHT
- RECESSED STRIP LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- EMERGENCY EXIT SIGN

OTHER

- RECESSED SPEAKER
- FIRE SPRINKLER
- SMOKE ALARM
- ACCESS PANEL

CEILING PLAN GENERAL NOTES

1. ALL CEILING HEIGHTS ARE TO FINISHED SURFACE ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
2. AT AREAS WITH ACOUSTIC TILE CEILING TO REMAIN, CAREFULLY REMOVE AND STORE ALL MATERIALS FOR REINSTALLATION AFTER HVAC WORK. CONTRACTOR TO REPLACE ANY BROKEN OR DAMAGED ITEMS.
3. LIGHTING IS SHOWN FOR LOCATION AND LAYOUT ONLY; SEE SPECIFICATIONS FOR FIXTURE TYPES.
4. DIMENSIONS ARE TO FACE OF FINISH, U.O.N. - COORDINATE WITH PARTITION TYPES SHEETS A9.01 & A9.02
5. AIR TERMINALS ARE SHOWN FOR LOCATION ONLY, SEE MEP DRAWINGS AIR TERMINAL SIZE, CONFIGURATION, FLOW RATES, ETC.
6. LOW VOLTAGE ACCESSORIES (FIRE ALARMS, SPEAKERS, STROBES, ETC.) ARE SHOWN FOR LOCATION ONLY, SEE ELECTRICAL PLANS FOR DIMENSIONS AND SPECIFICATIONS
7. WHERE FIELD DIMENSIONS CONFLICT WITH ARCHITECTURAL PLANS, NOTIFY ARCHITECT OF DISCREPANCY IMMEDIATELY.

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	9/06/2022	Issued for Bid

Drawn By	HE
Checked By	JH
Job. No.	1919
Scale	As indicated

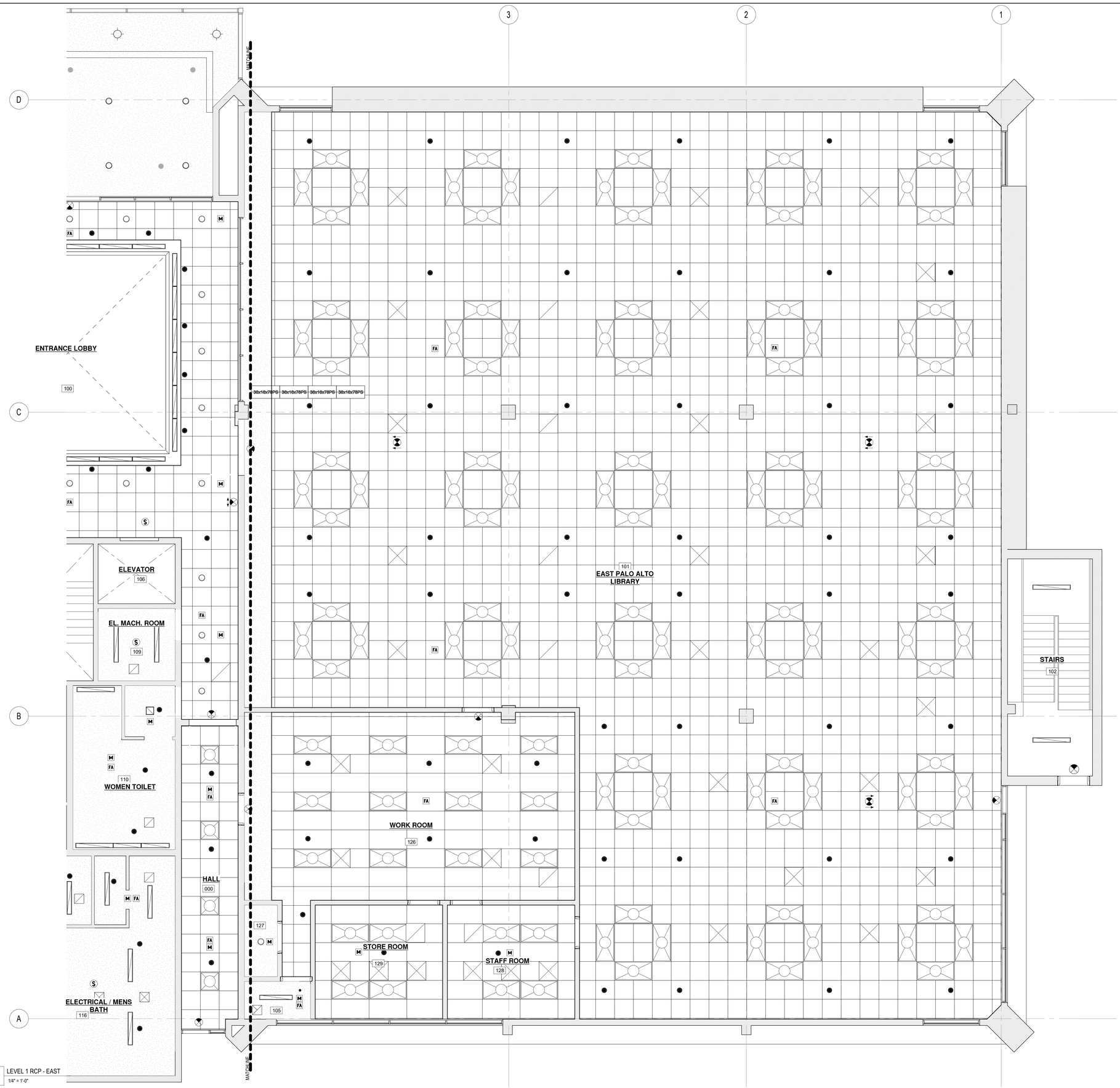
Drawing Title

REFLECTED CEILING PLAN LEVEL 01 WEST

A2.51

Sheet

2/10/2022 4:57:43 PM



1 LEVEL 1 RCP - EAST
1/4" = 1'-0"

SYMBOL LEGEND

ARCHITECTURAL

- EXISTING SUPPORT GRID TO REMAIN. REFER TO FINISH SCHEDULE FOR MORE INFORMATION
- NEW 2'-0" X 4'-0"ACOUSTIC CEILING TILE & GRID
- NEW 2'-0" X 2'-0"ACOUSTIC CEILING TILE & GRID
- EXISTING GWB SOFFIT TO REMAIN- PATCH AS NECESSARY WHERE AFFECTED BY CONSTRUCTION
- EXISTING WALL TO REMAIN

WALL ANNOTATION

- ACT SYSTEM RUNS OVER TOP OF WALL
- EXTEND WALL 6" ABOVE FINISH CEILING LEVEL SEE 1/A8.01
- ACT SYSTEM TERMINATES AT WALL

MECHANICAL

- 2x4 SUPPLY AIR GRILLE
- 2x4 RETURN AIR GRILLE
- 2x2 SUPPLY AIR GRILLE
- 2x2 RETURN AIR GRILLE
- 10"x4" LINEAR SLOT
- 4' LINEAR SLOT
- 2x2 4 WAY SUPPLY AIR GRILLE
- 12"x12" EXHAUST FAN

ELECTRICAL

- A1 — LIGHT FIXTURE TYPE, SEE SPECIFICATIONS
- RECESSED DOWNLIGHT FIXTURE
- 2x4 TROFFER LIGHT
- 2x2 TROFFER LIGHT
- RECESSED STRIP LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- EMERGENCY EXIT SIGN

OTHER

- RECESSED SPEAKER
- FIRE SPRINKLER
- SMOKE ALARM
- ACCESS PANEL

CEILING PLAN GENERAL NOTES

1. ALL CEILING HEIGHTS ARE TO FINISHED SURFACE ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
2. AT AREAS WITH ACOUSTIC TILE CEILING TO REMAIN, CAREFULLY REMOVE AND STORE ALL MATERIALS FOR REINSTALLATION AFTER HVAC WORK. CONTRACTOR TO REPLACE ANY BROKEN OR DAMAGED ITEMS.
3. LIGHTING IS SHOWN FOR LOCATION AND LAYOUT ONLY; SEE SPECIFICATIONS FOR FIXTURE TYPES.
4. DIMENSIONS ARE TO FACE OF FINISH, U.O.N. - COORDINATE WITH PARTITION TYPES SHEETS A9.01 & A9.02
5. AIR TERMINALS ARE SHOWN FOR LOCATION ONLY, SEE MEP DRAWINGS AIR TERMINAL SIZE, CONFIGURATION, FLOW RATES, ETC.
6. LOW VOLTAGE ACCESSORIES (FIRE ALARMS, SPEAKERS, STROBES, ETC.) ARE SHOWN FOR LOCATION ONLY, SEE ELECTRICAL PLANS FOR DIMENSIONS AND SPECIFICATIONS
7. WHERE FIELD DIMENSIONS CONFLICT WITH ARCHITECTURAL PLANS, NOTIFY ARCHITECT OF DISCREPANCY IMMEDIATELY.

SWATT MIERS ARCHITECTS
5845 DOYLE STREET
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TEL 510 985 9779
FAX. 510 985 0116
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LICENSED ARCHITECT GEORGE MIERS No. C-10467 STATE OF CALIFORNIA

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REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.
Apr 30 2022
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev	Date	Description
	11/05/2021	Permit Submittal
	9/06/2022	Issued for Bid

Drawn By	HE
Checked By	JH
Job. No.	1919
Scale	As indicated

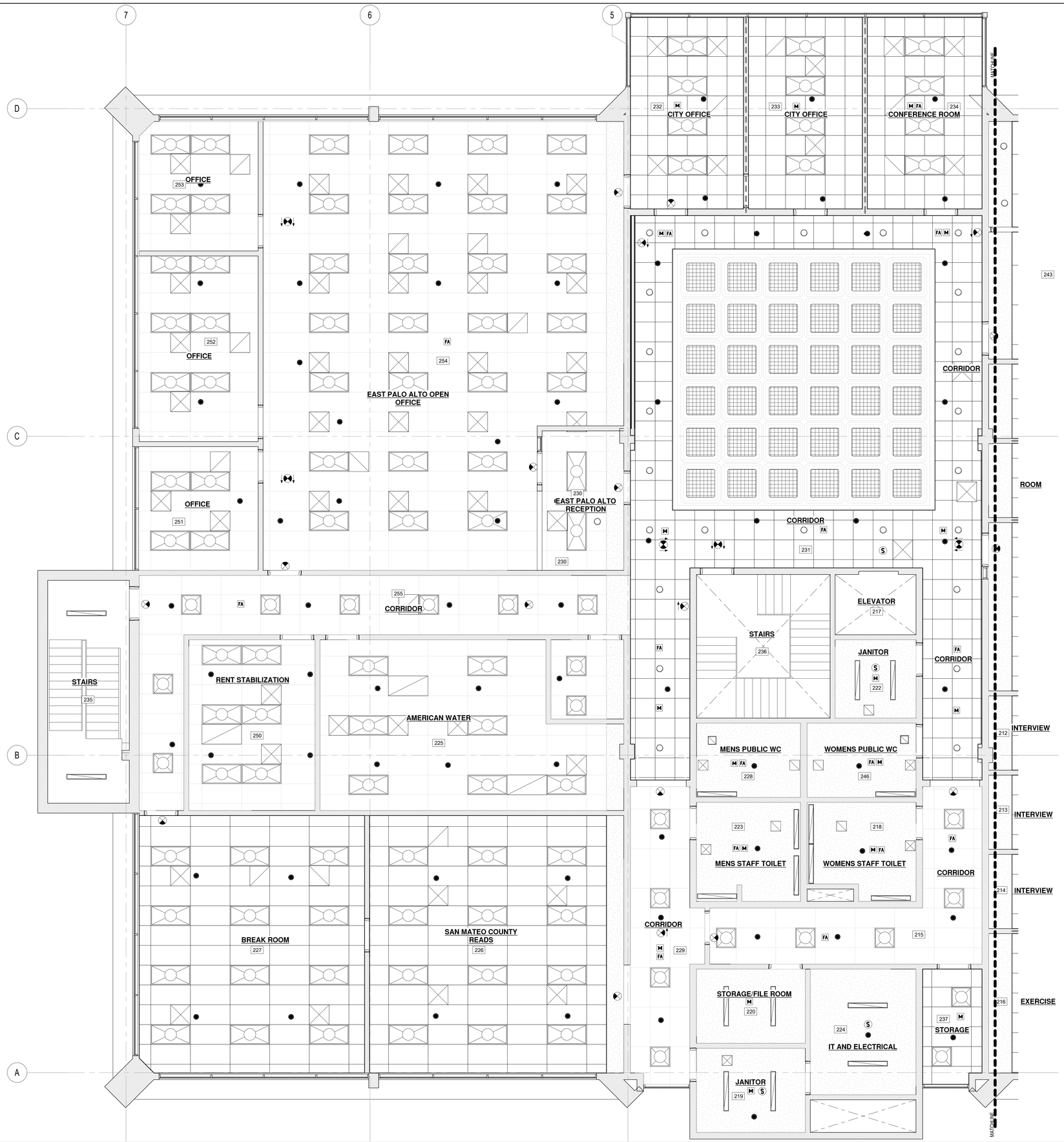
Drawing Title

REFLECTED CEILING PLAN LEVEL 01 EAST

A2.52

Sheet

2/8/2022 2:59:07 PM



1 LEVEL 2 RCP - WEST
1/4" = 1'-0"

2/8/2022 2:59:10 PM

SYMBOL LEGEND

ARCHITECTURAL

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- ACT SYSTEM TERMINATES AT WALL

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ELECTRICAL

- LIGHT FIXTURE TYPE, SEE SPECIFICATIONS
- RECESSED DOWNLIGHT FIXTURE
- 2x4 TROFFER LIGHT
- 2x2 TROFFER LIGHT
- RECESSED STRIP LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- EMERGENCY EXIT SIGN

OTHER

- RECESSED SPEAKER
- FIRE SPRINKLER
- SMOKE ALARM
- ACCESS PANEL

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EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
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APN: 063-103-370

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Checked By	JH
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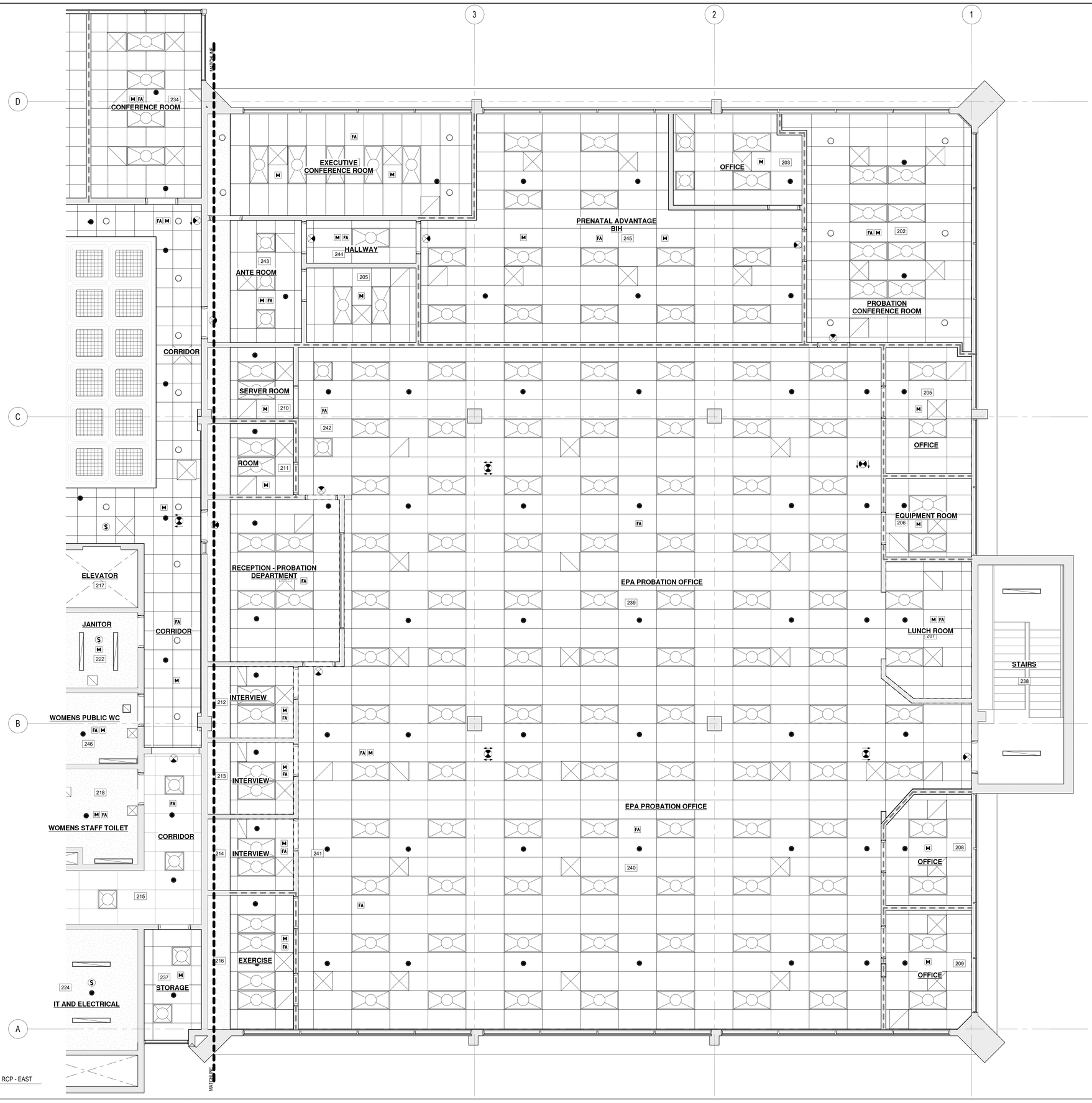
Drawing Title

REFLECTED CEILING PLAN LEVEL 02 WEST

A2.53

Sheet



1 LEVEL 2 RCP - EAST
1/4" = 1'-0"

SYMBOL LEGEND

ARCHITECTURAL

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APN: 063-103-370

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Drawing Title

REFLECTED CEILING PLAN LEVEL 02 EAST

A2.54

Sheet

2/6/2022 2:59:12 PM

1 LEVEL 3 RCP - WEST
1/4" = 1'-0"

2/8/2022 2:59:15 PM

SYMBOL LEGEND

ARCHITECTURAL

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Drawing Title

REFLECTED CEILING PLAN LEVEL 03 WEST

A2.55

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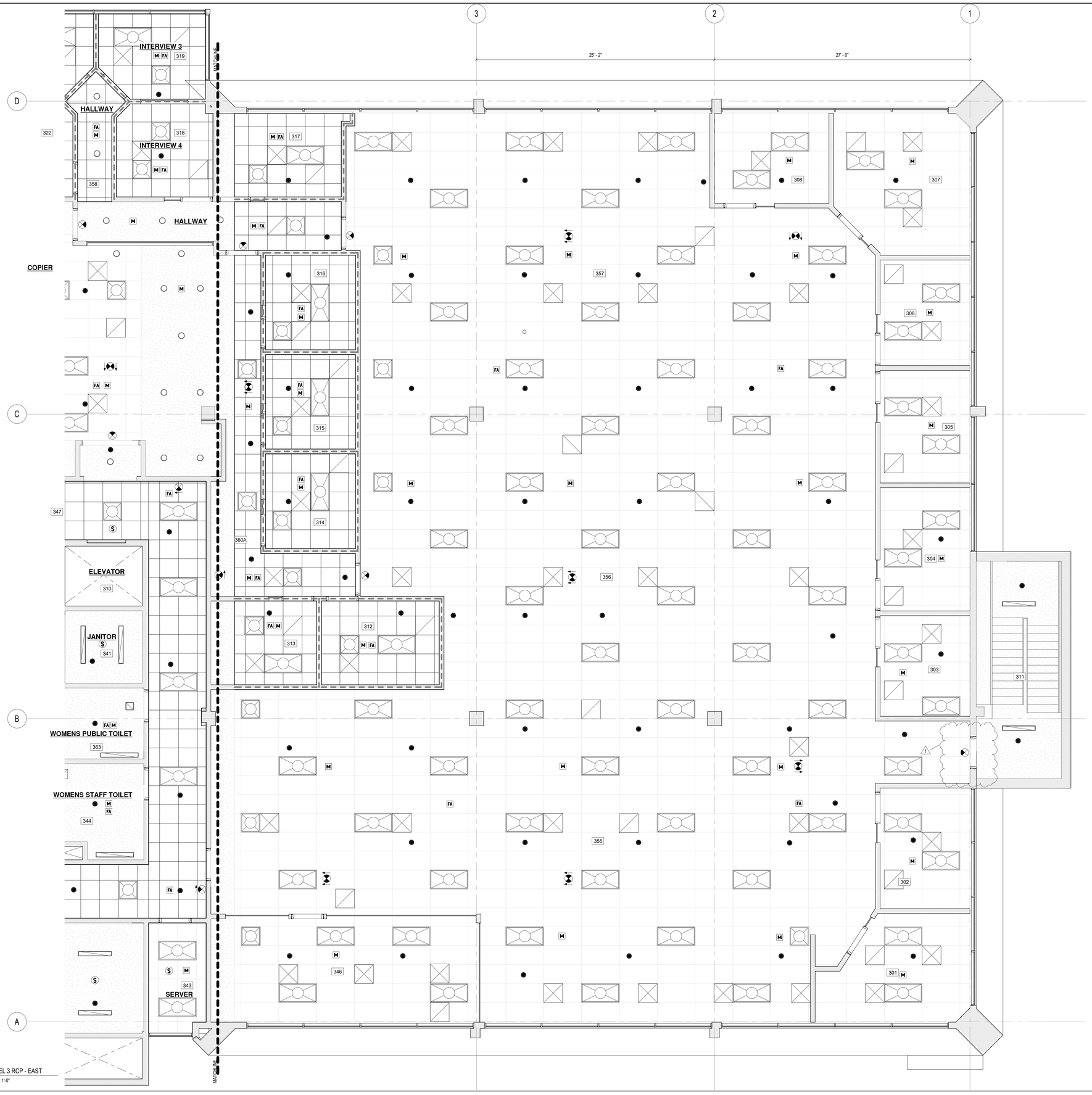

1 LEVEL 3 RCP - EAST
1/4" = 1'-0"

SYMBOL LEGEND

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LICENSED ARCHITECT
GEORGE MIERS
No. C-10467
STATE OF CALIFORNIA
8 - 31 - 2023

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APN: 063-103-370

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1	2/04/2022	Permit Revisions
	9/06/2022	Issued for Bid

Drawn By	HE
Checked By	JH
Job. No.	1919
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Drawing Title

REFLECTED CEILING PLAN LEVEL 03 EAST

A2.56

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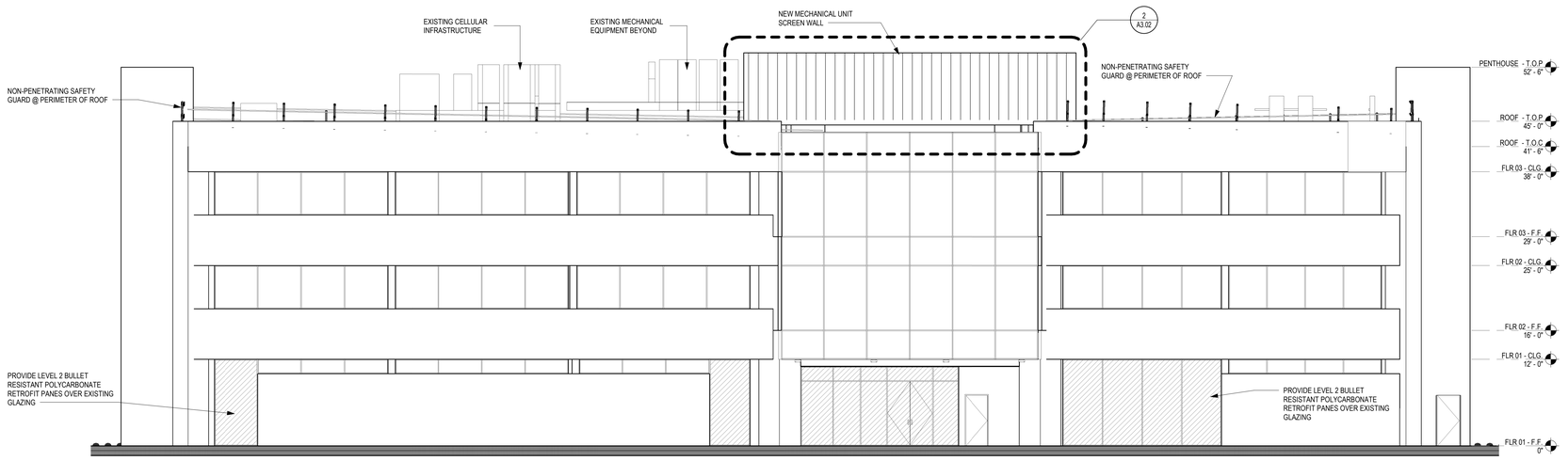
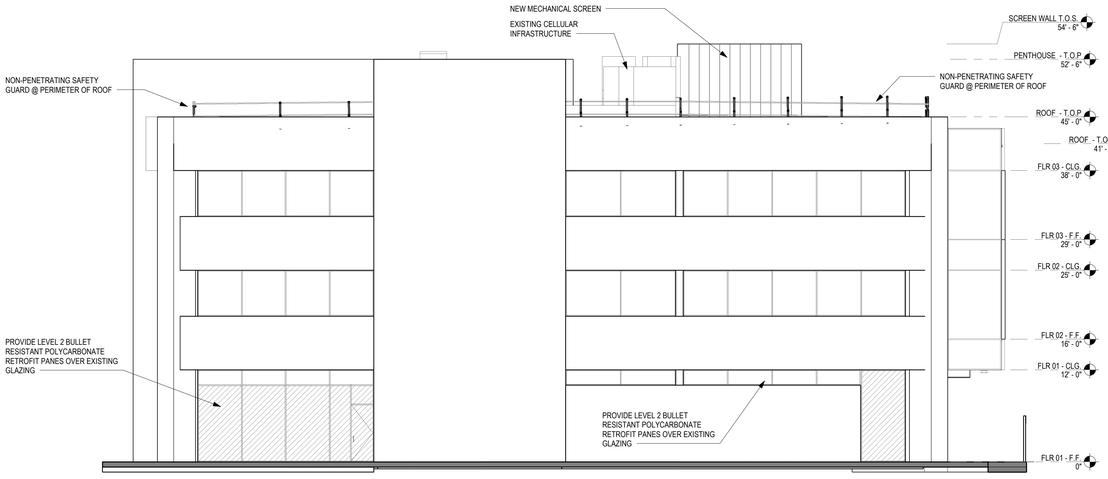
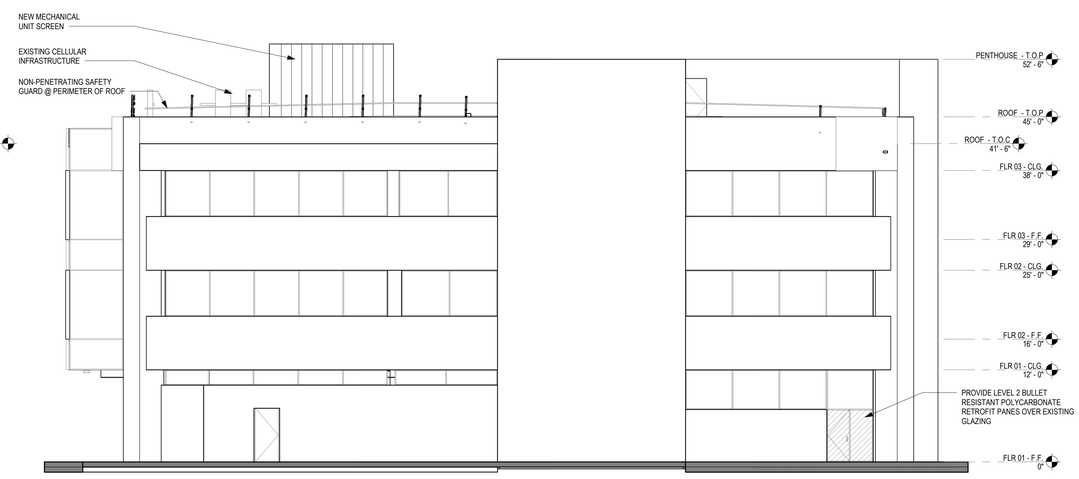
2/6/2022 2:59:18 PM



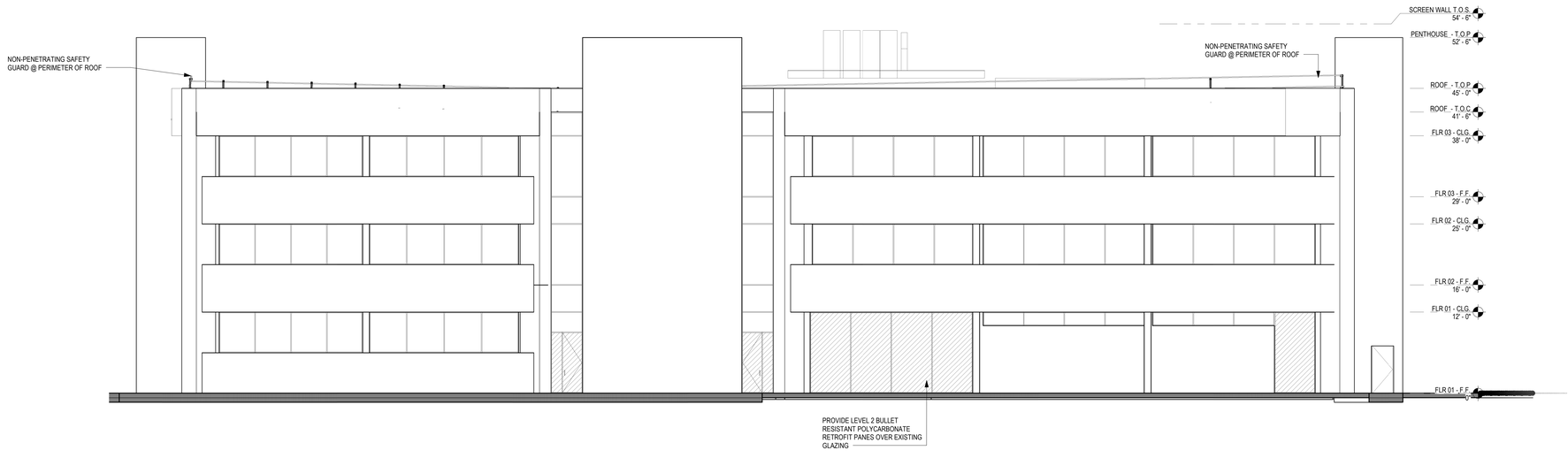
1 NORTH ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"



3 WEST ELEVATION
1/8" = 1'-0"



4 SOUTH ELEVATION
1/8" = 1'-0"

2/6/2022 2:59:26 PM

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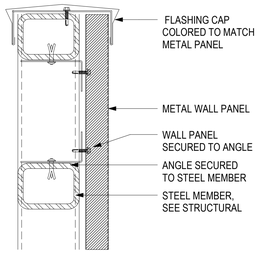
Scale	1/8" = 1'-0"

Drawing Title

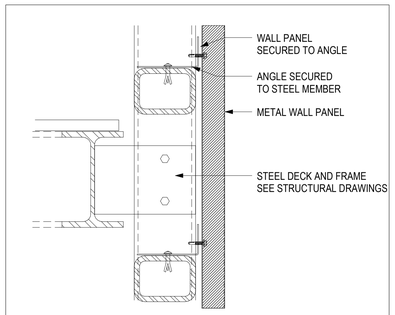
EXTERIOR ELEVATIONS

A3.01

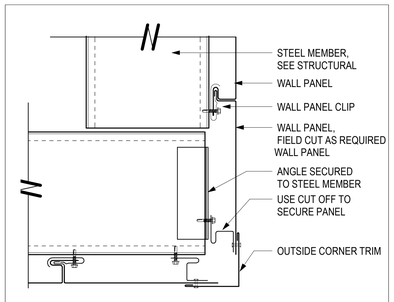
Sheet



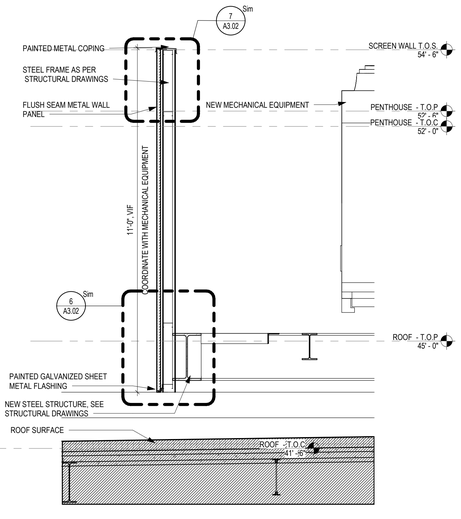
7 TOP OF SCREEN WALL DETAIL
3" = 1'-0"



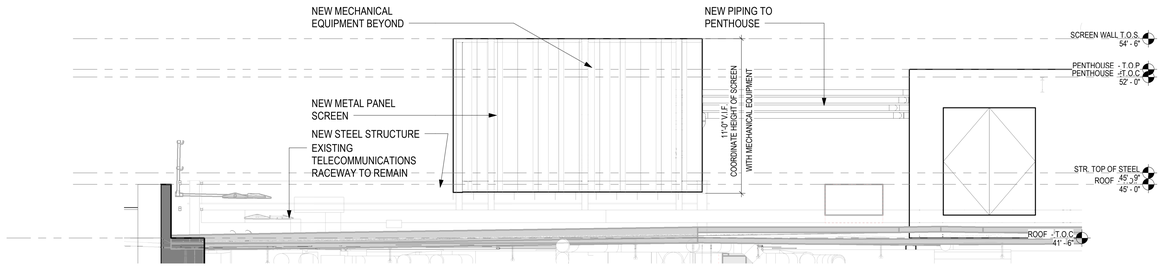
6 BASE OF SCREEN WALL
3" = 1'-0"



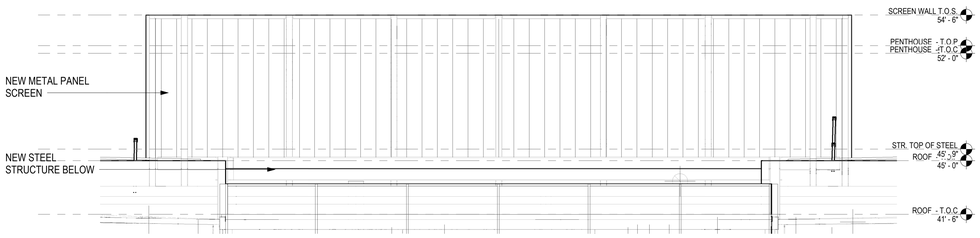
5 SCREEN WALL PLAN DETAIL
3" = 1'-0"



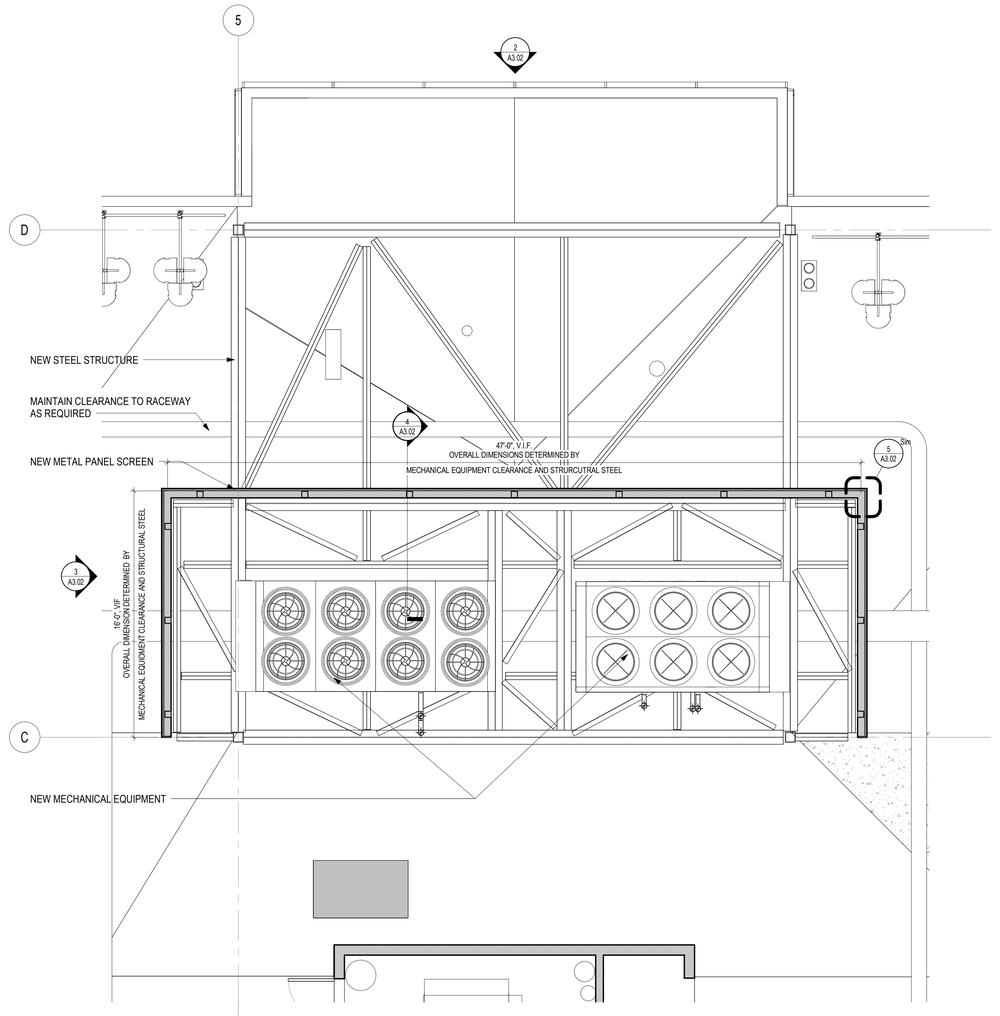
4 SECTION THROUGH MECHANICAL SCREEN
1/2" = 1'-0"



3 WEST ELEVATION AT MECHANICAL SCREEN
1/4" = 1'-0"



2 NORTH ELEVATION AT MECHANICAL SCREEN
1/4" = 1'-0"



1 SCREEN WALL - PLAN AT ROOF
1/4" = 1'-0"

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

Apr 30 2022

SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev	Date	Description
	11/05/2021	Permit Submittal
	9/06/2022	Issued for Bid

Drawn By	Author
Checked By	Checker
Job. No.	1919
Scale	As indicated

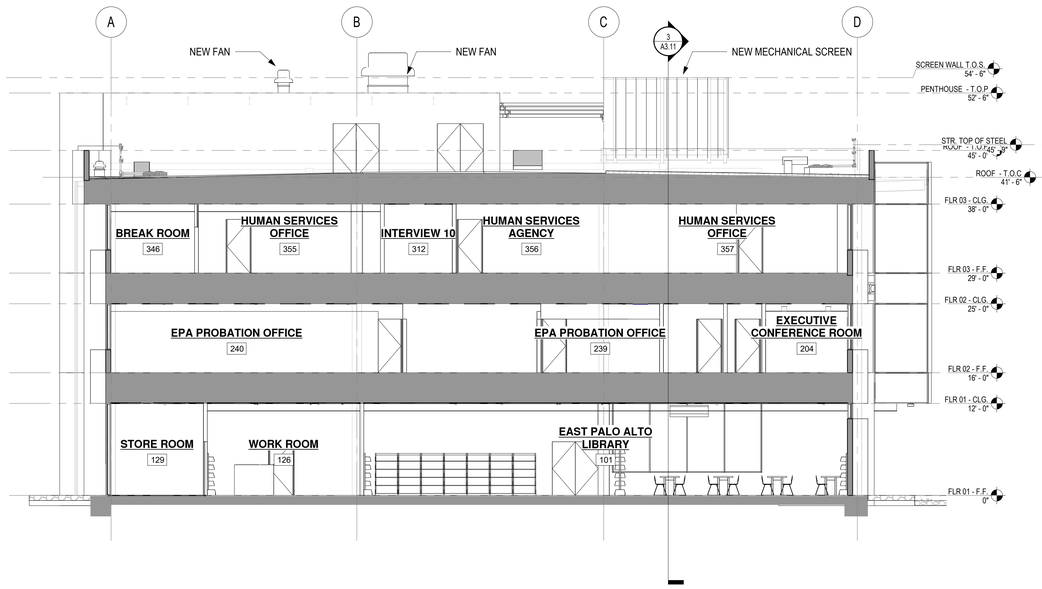
Drawing Title

PENTHOUSE SCREEN WALL PLAN, ELEVATIONS, AND DETAILS

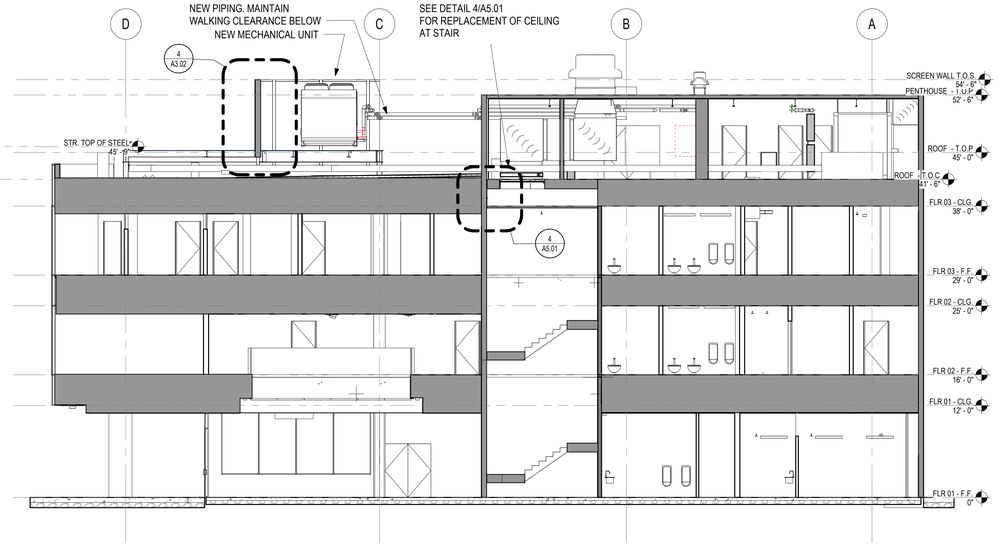
A3.02

Sheet

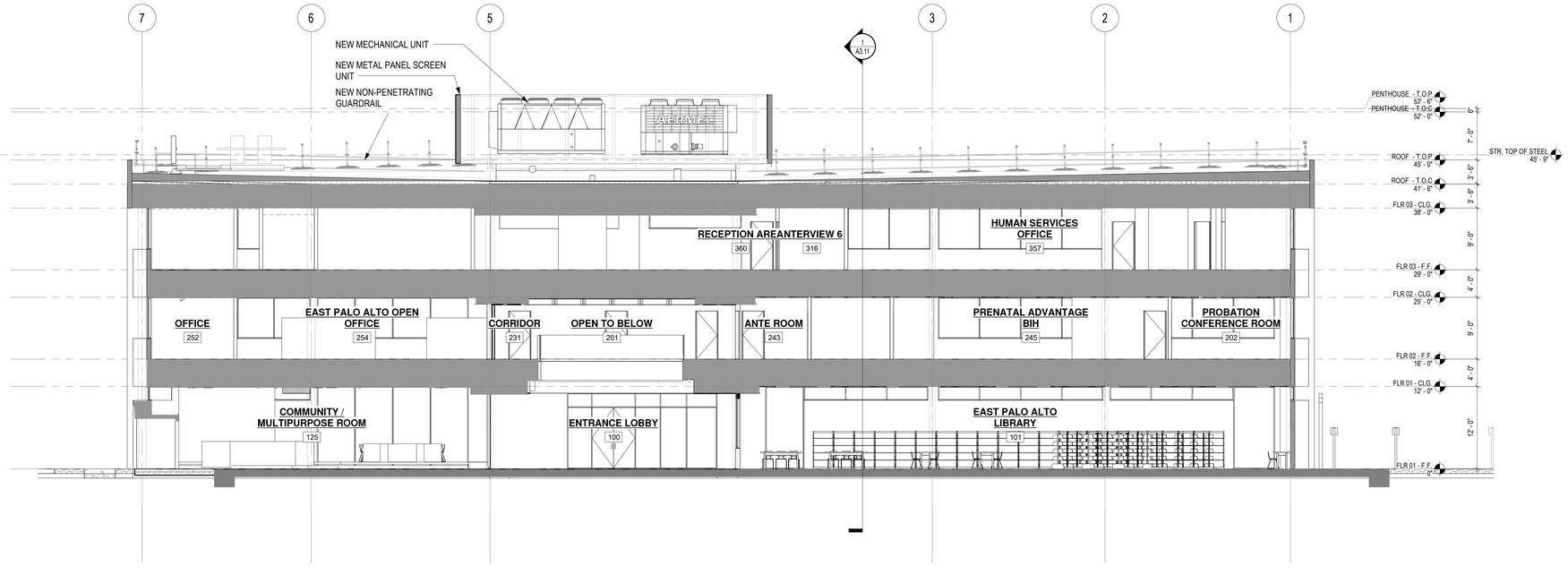
2/6/2022 2:35:32 PM



1 BUILDING SECTION AT GRID 4
1/8" = 1'-0"



2 SECTION THROUGH STAIR 3
1/8" = 1'-0"



3 BUILDING SECTION AT GRID C
1/8" = 1'-0"

2/8/2022 2:59:45 PM

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LICENSED ARCHITECT
GEORGE M. MIERS
No. C-10467
8 - 31 - 2023
STATE OF CALIFORNIA

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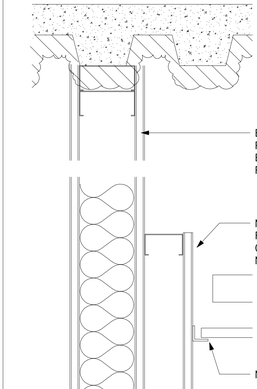
Drawn By	JH
Checked By	JH
Job. No.	1919
Scale	1/8" = 1'-0"

Drawing Title

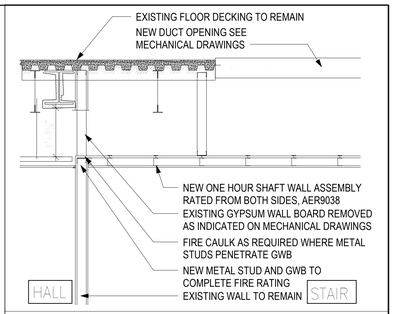
BUILDING SECTIONS

A3.11

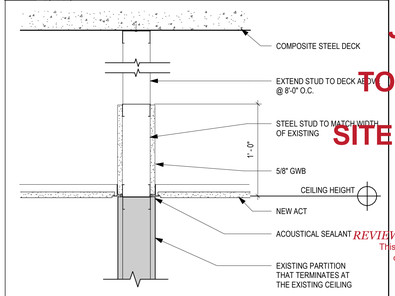
Sheet

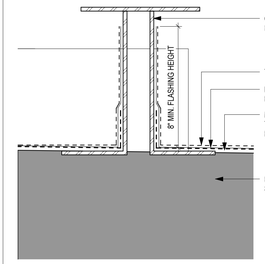


9 FURRING WALL DETAIL AT LEVEL 2
3" = 1'-0"

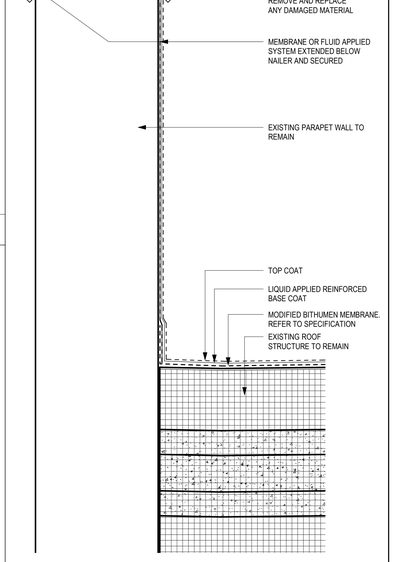


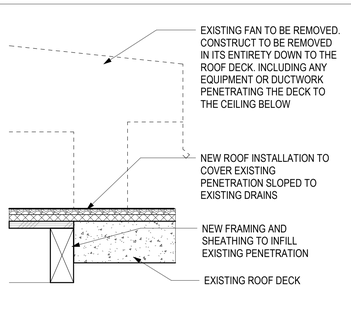
4 STAIR HALL WALL DETAIL
1/8" = 1'-0"



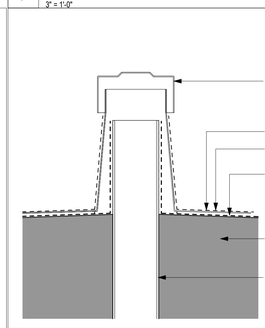


7 EQUIPMENT FRAME ATTACHMENT AT ROOF
3" = 1'-0"

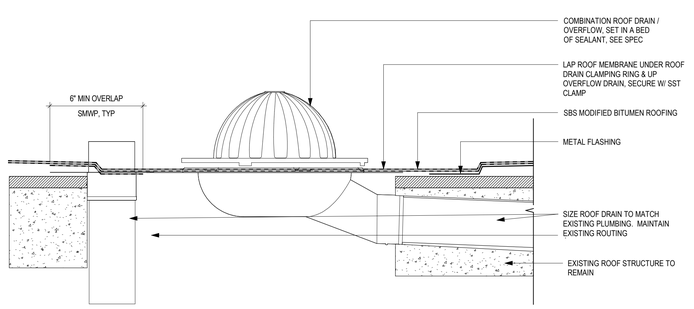




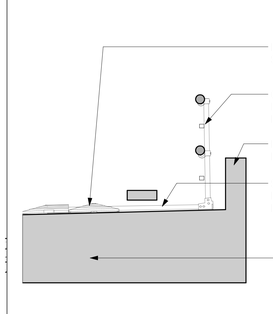
10 ROOF FILL AT STAIRS
3" = 1'-0"



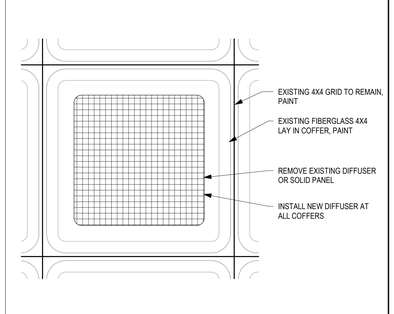
6 PIPE PENETRATION AT ROOF
3" = 1'-0"



8 ROOF DRAIN DETAIL
3" = 1'-0"



5 KEE Guard Detail
1/2" = 1'-0"



1 ATRIUM LUMINOUS CEILING PANEL
3/4" = 1'-0"

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5845 DOYLE STREET
SUITE 104
EMERYVILLE, CA 94608
TEL 510 985 9779
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LICENSED ARCHITECT GEORGE MIERS No. C-10467 STATE OF CALIFORNIA 8-31-2023

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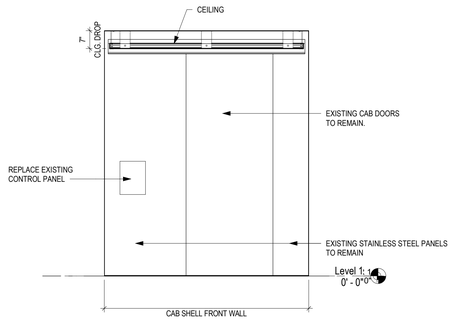
Drawing Title
EXT DETAILS

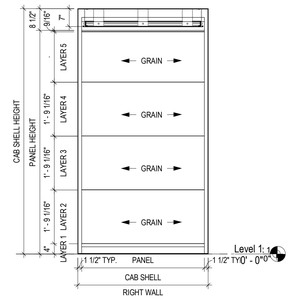
A5.01

Sheet

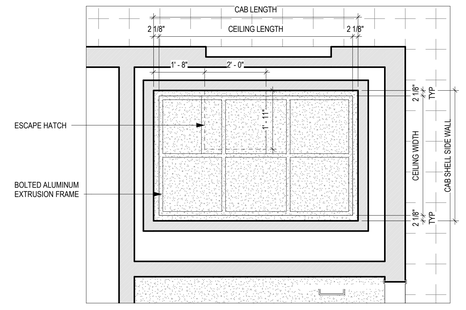
2/6/2022 2:59:48 PM



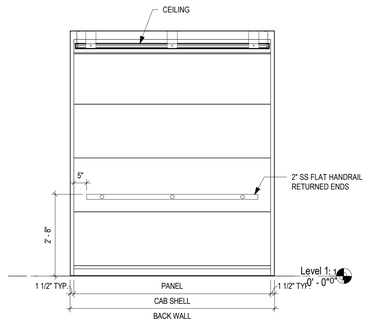
3 ELEVATOR CAB - NORTH
1/2" = 1'-0"



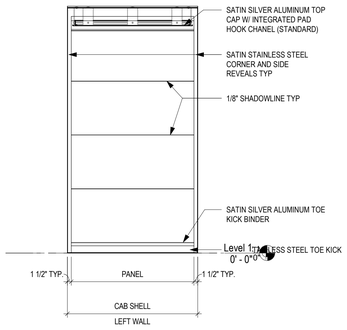
4 ELEVATOR CAB - EAST
1/2" = 1'-0"



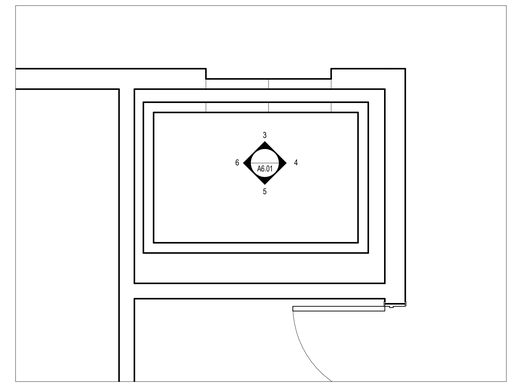
2 ELEVATOR CAB - REFLECTED CEILING PLAN
1/2" = 1'-0"



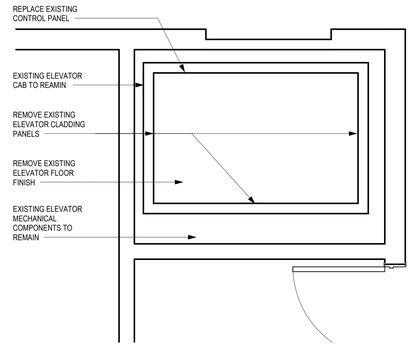
5 ELEVATOR CAB - SOUTH
1/2" = 1'-0"



6 ELEVATOR CAB - WEST
1/2" = 1'-0"



1 ELEVATOR CAB PLAN
1/2" = 1'-0"



7 ELEVATOR CAB DEMO PLAN
1/2" = 1'-0"

SWATT MIERS ARCHITECTS

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Drawing Title

ELEVATOR CAB FINISH REPLACEMENT

A6.01

Sheet

2/6/2022 2:59:50 PM

LEVEL 3

WTWT	ROOM #	LEVEL	NAME	PHASE	FLOOR	CEILING	TILE TYPE	GRID TYPE	CEILING NOTES	WALL	ACT SQ FT	REMARKS
3												
COUNTY	309	3	ELECTRICAL	ALL	EXISTING	EXISTING GYP						
COUNTY	311	3	STAIRS	ALL	EXISTING	EXISTING GYP						
COUNTY	341	3	JANITOR	ALL	EXISTING	EXISTING GYP						
COUNTY	342	3	MENS STAFF TOILET	ALL	EXISTING	EXISTING GYP						
COUNTY	343	3	SERVER	ALL	EXISTING	ACT TIER 2	1	EXISTING 2X4			69	
COUNTY	344	3	WOMENS STAFF TOILET	ALL	EXISTING	EXISTING GYP						
COUNTY	345	3	STAIRS	ALL	EXISTING	EXISTING GYP						
COUNTY	347	3	CORRIDOR	ALL	EXISTING	ACT TIER 3	2	NEW 2X2			1061	
COUNTY	354	3	BREAK AREA	ALL	EXISTING	ACT TIER 2	1	EXISTING 2X4			160	
COUNTY	362	3	MENS PUBLIC TOILET	ALL	EXISTING	EXISTING GYP						
COUNTY	363	3	WOMENS PUBLIC TOILET	ALL	EXISTING	EXISTING GYP						
COUNTY	509	3	STAIRS	ALL	EXISTING	EXISTING GYP						
HUMAN SERVICES	301	3	OFFICE 1	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		160	
HUMAN SERVICES	302	3	OFFICE 2	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		121	
HUMAN SERVICES	303	3	OFFICE 3	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		101	
HUMAN SERVICES	304	3	OFFICE 4	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		124	
HUMAN SERVICES	305	3	OFFICE 5	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		113	
HUMAN SERVICES	306	3	OFFICE 6	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		106	
HUMAN SERVICES	307	3	OFFICE 7	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		203	
HUMAN SERVICES	308	3	OFFICE 8	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		115	
HUMAN SERVICES	312	3	INTERVIEW 10	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	111	
HUMAN SERVICES	313	3	INTERVIEW 9	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	78	
HUMAN SERVICES	314	3	INTERVIEW 8	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	96	
HUMAN SERVICES	315	3	INTERVIEW 7	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	95	
HUMAN SERVICES	316	3	INTERVIEW 6	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	95	
HUMAN SERVICES	317	3	INTERVIEW 5	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	99	
HUMAN SERVICES	318	3	INTERVIEW 4	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	99	
HUMAN SERVICES	319	3	INTERVIEW 3	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	96	
HUMAN SERVICES	320	3	INTERVIEW 2	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	101	
HUMAN SERVICES	322	3	INTERVIEW 1	ALL	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	95	
HUMAN SERVICES	324	3	CONFERENCE ROOM	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		480	
HUMAN SERVICES	346	3	BREAK ROOM	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		285	
HUMAN SERVICES	355	3	HUMAN SERVICES OFFICE	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B, D		2091	
HUMAN SERVICES	356	3	HUMAN SERVICES AGENCY	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B, D		1517	
HUMAN SERVICES	357	3	HUMAN SERVICES OFFICE	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B, D		1544	
HUMAN SERVICES	358	3	HALLWAY	ALL	EXISTING	ACT TIER 3	2	NEW 2X2			105	
HUMAN SERVICES	359	3	COPIER	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B			
HUMAN SERVICES	360	3	RECEPTION AREA	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		470	
HUMAN SERVICES	360A	3	CORRIDOR	ALL	EXISTING	ACT TIER 2	2	NEW 2X2			134	
HUMAN SERVICES	361	3	CHILDRENS AREA	ALL	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B			
NORTH	321	3	STORAGE	1	CARPET	ACT TIER 3	2	NEW 2X2			113	
NORTH	323	3	PLAY THERAPY ROOM	1	CARPET	ACT TIER 3	2	NEW 2X2			91	
NORTH	325	3	PSYCHIATRIST	1	CARPET	ACT TIER 3	2	NEW 2X2		EXTEND WALL	96	
NORTH	326	3	PSYCHIATRIST	1	CARPET	ACT TIER 3	2	NEW 2X2		EXTEND WALL	102	
NORTH	327	3	OFFICE	1	CARPET	ACT TIER 3	2	NEW 2X2		EXTEND WALL	100	
NORTH	328	3	MEDICATION ROOM	1	CARPET	ACT TIER 3	2	NEW 2X2			75	
NORTH	329	3	OFFICE	1	CARPET	ACT TIER 3	2	NEW 2X2		EXTEND WALL	103	
NORTH	348	3	HALLWAY	1	CARPET	ACT TIER 3	2	NEW 2X2			130	
NORTH	349	3	BEHAVIOURAL HEALTH	1	CARPET	ACT TIER 3	2	NEW 2X2			605	
NORTH	350	3	PUBLIC HEALTH NURSING	1	CARPET	ACT TIER 3	2	NEW 2X2			221	
NORTH	364	3	TOILET	1	EXISTING	EXISTING GYP						
SOUTH	497	3	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	99	
SOUTH	498	3	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	99	
SOUTH	499	3	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	70	
SOUTH	500	3	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	63	
SOUTH	501	3	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	50	
SOUTH	502	3	STORAGE	2	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	54	
SOUTH	503	3	GROUP ROOM	2	EXISTING	ACT TIER 3	2	NEW 2X2			208	
SOUTH	504	3	BREAK ROOM	2	EXISTING	ACT TIER 3	2	NEW 2X2			144	
SOUTH	505	3	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	130	
SOUTH	506	3	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	93	
SOUTH	507	3	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X2		EXTEND WALL	87	
SOUTH	508	3	BEHAVIOURAL HEALTH	2	EXISTING	ACT TIER 3	2	NEW 2X2			830	

LEVEL 4

WTWT	ROOM #	LEVEL	NAME	PHASE	FLOOR	CEILING	TILE TYPE	GRID TYPE	CEILING NOTES	WALL	ACT SQ FT	REMARKS
4												
COUNTY	401A	4	PENTHOUSE	ALL	TRAFFIC	--						
COUNTY	401B	4	ELEVATOR MACHINE ROOM	ALL	TRAFFIC	--						
COUNTY	401C	4	BOILER ROOM	ALL	TRAFFIC	--						
COUNTY	401D	4	AIR HANDLING ROOM	ALL	TRAFFIC	--						

PORTABLE BUILDING

WTWT	ROOM #	LEVEL	NAME	PHASE	FLOOR	CEILING	TILE TYPE	GRID TYPE	CEILING NOTES	WALL	ACT SQ FT	REMARKS
PORTABLE												
PORTABLE	P-001	PORTABLE	PORTABLE UNT FLEX SPACE	ALL	CARPET	ACT						
PORTABLE	P-002	PORTABLE	MENS ROOM	ALL	VCT	ACT						
PORTABLE	P-003	PORTABLE	WOMENS ROOM	ALL	VCT	ACT						

LEVEL 1

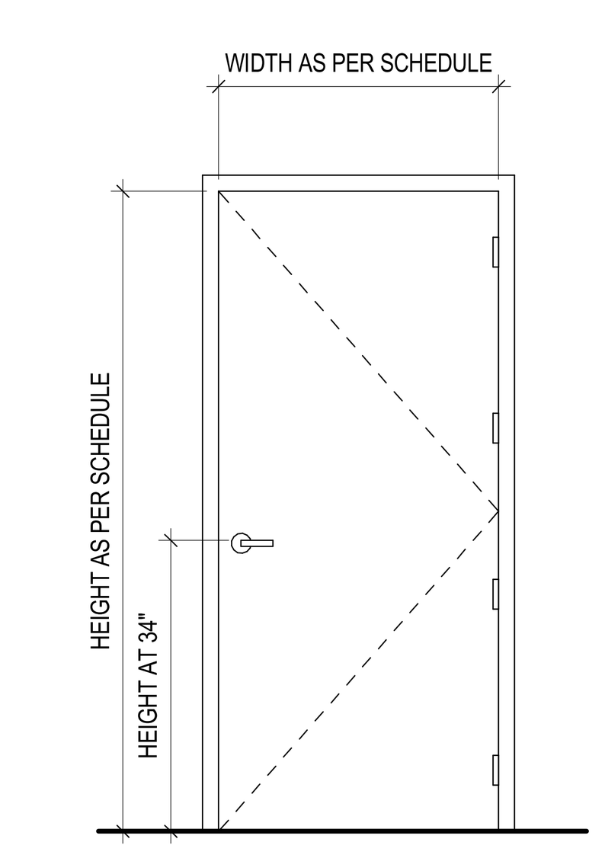
WTWT	ROOM #	LEVEL	NAME	PHASE	FLOOR	CEILING	TILE TYPE	GRID TYPE	CEILING NOTES	WALL	ACT SQ FT	REMARKS
	125A		CONTROL ROOM									
1												
CITY OF E.P.A	107	1	ALCOVE	2	EXISTING	EXISTING GYP						
CITY OF E.P.A	114	1	EPA CITY OFFICE	2	EXISTING	ACT TIER 3	1	NEW 2X4			1271	
CITY OF E.P.A	118	1	OFFICE	2	EXISTING	ACT TIER 3	1	NEW 2X4			103	
CITY OF E.P.A	119	1	OFFICE	2	EXISTING	ACT TIER 3	1	NEW 2X4			63	
CITY OF E.P.A	120	1	OFFICE	2	EXISTING	ACT TIER 3	1	NEW 2X4			92	
CITY OF E.P.A	121	1	OFFICE	2	EXISTING	ACT TIER 3	1	NEW 2X4			100	
CITY OF E.P.A	122	1	SERVER	2	EXISTING	ACT TIER 3	1	NEW 2X4			90	
CITY OF E.P.A	123	1	WAITING	2	EXISTING	ACT TIER 3	1	NEW 2X4			87	
CITY OF E.P.A	125	1	COMMUNITY / MULTIPURPOSE ROOM	2	EXISTING	ACT TIER 2	2	EXISTING 2X2	A, C		2310	
COUNTY	000	1	HALL	ALL	VCT	ACT TIER 3	1	NEW 2X4			191	
COUNTY	100	1	ENTRANCE LOBBY	ALL	TERRAZZO	ACT TIER 3	3	NEW 2X2			915	
COUNTY	102	1	STAIRS	ALL	EXISTING	--						
COUNTY	103	1	STAIRS	ALL	EXISTING	--						
COUNTY	104	1	STAIRS	ALL	EXISTING	--						
COUNTY	106	1	ELEVATOR	ALL	EXISTING	--						CAB REPLACEMENT- SEE SHEET A6.01
COUNTY	109	1	EL. MACH. ROOM	ALL	EXISTING	EXISTING GYP						
COUNTY	110	1	WOMEN TOILET	ALL	EXISTING	EXISTING GYP						
COUNTY	112	1	MEN TOILET	ALL	EXISTING	EXISTING GYP						
COUNTY	115	1	ELEC. CLOSET	ALL	EXISTING	EXISTING GYP						
COUNTY	116	1	ELECTRICAL / MENS BATH	ALL	EXISTING	EXISTING GYP						
COUNTY	117	1	WOMENS BATH	ALL	EXISTING	EXISTING GYP						
COUNTY	124	1	TOILET	ALL	EXISTING	EXISTING GYP						
LIBRARY	101	1	EAST PALO ALTO LIBRARY	1	CARPET	ACT TIER 3	2	NEW 2X2			6341	
LIBRARY	105	1	TOILET	1	EXISTING	EXISTING GYP						
LIBRARY	126	1	WORK ROOM	1	EXISTING	ACT TIER 3	1	NEW 2X4			664	
LIBRARY	127	1	CLOSET	1	CARPET	EXISTING GYP						
LIBRARY	128	1	STAFF ROOM	1	EXISTING	ACT TIER 3	1	NEW 2X4			163	
LIBRARY	129	1	STORE ROOM	1	EXISTING	ACT TIER 3	1	NEW 2X4			163	

LEVEL 2

WTWT	ROOM #	LEVEL	NAME	PHASE	FLOOR	CEILING	TILE TYPE	GRID TYPE	CEILING NOTES	WALL	ACT SQ FT	REMARKS
2												
CITY OF E.P.A	204	2	EXECUTIVE CONFERENCE ROOM	2	EXISTING	ACT TIER 2	2	EXISTING 2X4	A	EXTEND WALL	230	
CITY OF E.P.A	205	2	COUNTY SUPERVISOR	2	EXISTING	ACT TIER 2	2	EXISTING 2X4	A	EXTEND WALL	75	
CITY OF E.P.A	215	2	CORRIDOR	2	VCT	ACT TIER 2	1	EXISTING 2X4	A		230	
CITY OF E.P.A	220	2	STORAGE/FILE ROOM	ALL	EXISTING	EXISTING GYP						
CITY OF E.P.A	225	2	AMERICAN WATER	1	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		440	
CITY OF E.P.A	225A	2	PAY COUNTER	1	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		45	
CITY OF E.P.A	230	2	EAST PALO ALTO RECEPTION	1	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		96	
CITY OF E.P.A	232	2	CITY OFFICE	1	EXISTING	ACT TIER 3	3	NEW 2X2			224	
CITY OF E.P.A	233	2	CITY OFFICE	1	EXISTING	ACT TIER 3	3	NEW 2X2			223	
CITY OF E.P.A	234	2	CONFERENCE ROOM	1	EXISTING	ACT TIER 3	3	NEW 2X2			223	
CITY OF E.P.A	237	2	STORAGE	2	EXISTING	ACT TIER 3	1	NEW 2X4			68	
CITY OF E.P.A	250	2	RENT STABILIZATION	1	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		220	
CITY OF E.P.A	251	2	OFFICE	1	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		150	
CITY OF E.P.A	252	2	OFFICE	1	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		225	
CITY OF E.P.A	253	2	OFFICE	1	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		157	
CITY OF E.P.A	254	2	EAST PALO ALTO OPEN OFFICE	1	EXISTING	ACT TIER 1	EXISTING	EXISTING 2X4	A, B		1457	
COUNTY	218	2	WOMENS STAFF TOILET	ALL	EXISTING	EXISTING GYP						
COUNTY	219	2	JANITOR	ALL	EXISTING	EXISTING GYP						
COUNTY	222	2	JANITOR	ALL	EXISTING	EXISTING GYP						
COUNTY	223	2	MENS STAFF TOILET	ALL	EXISTING	EXISTING GYP						
COUNTY	224	2	IT AND ELECTRICAL	ALL	EXISTING	EXISTING GYP						
COUNTY	227	2	BREAK ROOM	3	VCT	ACT TIER 3	1	NEW 2X4			592	
COUNTY	228	2	MENS PUBLIC WC	ALL	EXISTING	EXISTING GYP						
COUNTY	229	2	CORRIDOR	ALL	VCT	ACT TIER 3	1	NEW 2X4			188	
COUNTY	231	2	CORRIDOR	ALL	VCT	ACT TIER 3	3	NEW 2X2			811	
COUNTY	235	2	STAIRS	ALL	EXISTING	--						
COUNTY	236	2	STAIRS	ALL	EXISTING	--						
COUNTY	238	2	STAIRS	ALL	EXISTING	--						
COUNTY	243	2	ANTE ROOM	2	EXISTING	ACT TIER 2	2	EXISTING 2X4	A		85	
COUNTY	246	2	WOMENS PUBLIC WC	ALL	EXISTING	EXISTING GYP						
COUNTY	255	2	CORRIDOR	ALL	VCT	ACT TIER 2	2	EXISTING 2X4	A		331	
LIBRARY	226	2	SAN MATEO COUNTY READS	3	EXISTING	ACT TIER 3	1	NEW 2X4			623	
PRENATAL ADVANTAGE	203	2	OFFICE	2	EXISTING	ACT TIER 2	1	EXISTING 2X4	A		124	
PRENATAL ADVANTAGE	244	2	HALLWAY	2	EXISTING	ACT TIER 2	1	EXISTING 2X4	A		52	
PRENATAL ADVANTAGE	245	2	PRENATAL ADVANTAGE BIH	2	EXISTING	ACT TIER 2	1	EXISTING 2X4	A, D	EXTEND WALL	754	
PROBATION	202	2	PROBATION CONFERENCE ROOM	2	EXISTING	ACT TIER 3	2	NEW 2X4		EXTEND WALL	420	
PROBATION	205	2	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X4		EXTEND WALL	120	
PROBATION	206	2	EQUIPMENT ROOM	2	EXISTING	ACT TIER 3	2	NEW 2X4		EXTEND WALL	75	
PROBATION	207	2	LUNCH ROOM	2	EXISTING	ACT TIER 3	1	NEW 2X4			129	
PROBATION	208	2	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X4		EXTEND WALL	100	
PROBATION	209	2	OFFICE	2	EXISTING	ACT TIER 3	2	NEW 2X4		EXTEND WALL	113	
PROBATION	210	2	SERVER ROOM	2	EXISTING	ACT TIER 3	2	NEW 2X4			50	
PROBATION	211	2	ROOM	2	EXISTING	ACT TIER 3	2	NEW 2X4		EXTEND WALL	50	
PROBATION	212	2	INTERVIEW	2	EXISTING	ACT TIER 3	1	NEW 2X4			50	
PROBATION	213	2	INTERVIEW	2	EXISTING	ACT TIER 3	1	NEW 2X4			50	
PROBATION	214	2	INTERVIEW	2	EXISTING	ACT TIER 3	1	NEW 2X4			50	
PROBATION	216	2	EXERCISE	2	EXISTING	ACT TIER 3	2	NEW 2X4		EXTEND WALL	94	
PROBATION	221	2	RECEPTION - PROBATION DEPARTMENT	2	EXISTING	ACT TIER 3	1	NEW 2X4			163	
PROBATION	239	2	EPA PROBATION OFFICE	2	EXISTING	ACT TIER 3	1	NEW 2X4			2173	
PROBATION	240	2	EPA PROBATION OFFICE	2	EXISTING	ACT TIER 3	1	NEW 2X4			1901	
PROBATION	241	2	HALLWAY	2	EXISTING	ACT TIER 3	1	NEW 2X4			195	
PROBATION	242	2	HALLWAY	2	EXISTING	ACT TIER 3	2	NEW 2X4		EXTEND WALL	79	

DOOR SCHEDULE PENTHOUSE

	DOOR											
DR #	WIDTH	HEIGHT	THICKNESS	CONST	FINISH	GLAZING TYPLE	FIRE RATING	FRAME CONST	FRAME FINISH	HW GROUP	HW - INT / EXT	Phase Created
N001	3' - 0"	7' - 0"	1 7/8"	HM	PTD	-	-	HM	PTD	1	EXT	New Construction
N002	3' - 0"	7' - 0"	1 7/8"	HM	PTD	-	-	HM	PTD	1	EXT	New Construction
N003	3' - 0"	7' - 0"	1 7/8"	HM	PTD	-	-	HM	PTD	1	EXT	New Construction
N004	3' - 0"	7' - 0"	1 7/8"	HM	PTD	-	-	HM	PTD	1	EXT	New Construction



1 DOOR ELEVATION
1/2" = 1'-0"

FINISH SCHEDULE GENERAL NOTES

1. ALL LIGHTS REPLACED WITH LED UNLESS OTHERWISE NOTED.
2. THE FINISHES NOTED ON THE PLANS INDICATES THE TYPES AND EXTENT OF FINISHES. REFER TO OTHER CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.
3. SUBMIT SAMPLES IN ACCORDANCE WITH SPECIFICATIONS OF EACH FINISH AND FLOOR COVERING TO THE ARCHITECT FOR REVIEW AND APPROVAL BEFORE BEGINNING WORK. THE ARCHITECT HAS TEN (10) WORKING DAYS TO PROCESS SHOP DRAWINGS.
4. SUBSTITUTIONS, REVISIONS OR CHANGES MUST HAVE APPROVAL OF THE ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
5. VERIFY WITH ARCHITECT AT BEGINNING OF PROJECT WHAT ELEMENTS ARE TO BE PAINTED.
6. PAINT AT ALL INTERIOR WALLS PATCHING SHALL MATCH EXISTING COLOR
7. NO GYP. BD. SURFACES EXPOSED TO VIEW SHALL BE LEFT UNFINISHED OR UNPAINTED.
8. "WATER RESISTANT" GYP. BD. AND/OR CEMENTITIOUS BOARD AT ALL BATHROOMS, POWDER ROOM, AND UTILITY ROOM.
9. PROVIDE METAL TRIM OR CASING AT ALL EDGES OF PLASTER OR GYPSUM BOARD WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, EXCEPT FLOORS.
10. IN ALL CASES, PROVIDE ISOLATION OF ALUMINUM FROM ADJACENT STEEL OR COAT SURFACES IN CONTACT WITH BITUMINOUS PAINTS.

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
ALUM	ALUMINUM
CONC	CONCRETE
CRPT	CARPET
GLAZ	GLASS/GLAZING
GYP BD	GYPSUM BOARD
MTL	METAL
PTD	PAINT/PAINTED
SEALED	CLR SEALED
SST	STAINLESS STEEL
STAIN	STAIN/VARNISH
TILE	CERAMIC TILE
RESIL	RESILIENT
VCT	VINYL COMPOSITE TILE

ACOUSTIC TILE CEILING WORK TIERS

1. EXISTING CEILING SYSTEM TO REMAIN. SELECTIVE DISSASEMBLY REQUIRED AT AREAS OF NEW HVAC WORK. PROTECT ALL ITEMS FROM DAMAGE, REINSTALL AND AND REPLACE DAMAGED ITEMS WITH MATCHING MATERIALS AS NECESSARY.
2. EXISTING GRID TO REMAIN, DISPOSE OF ALL EXISTING TILES AND REPLACE WITH NEW AS SPECIFIED. CLEAN GRID THOROUGHLY AND REPAIR/REPLACE DAMAGED AREAS WITH MATCHING MATERIALS AS NECESSARY. REFER TO SCHEDULE FOR GRID TO BE PAINTED.
3. DEMOLISH ENTIRE CEILING SYSTEM AND REPLACE WITH NEW AS SPECIFIED.

DOOR SCHEDULE GENERAL NOTES

1. DOOR DIMENSIONS SHOWN ARE NOMINAL (APPROXIMATE) FRAME SIZES. FIELD VERIFY ROUGH OPENING SIZES AND COORDINATE WITH WINDOW MANUFACTURER'S CLEARANCE REQUIREMENTS AND ADJACENT FINISHES.
2. COORDINATE ALL STRUCTURAL FRAMING REQUIREMENTS WITH DOOR MANUFACTURER AND ARCHITECT.

DOOR HARDWARE

HARDWARE GROUP #1 ITEMS - DESCRIPTION, CATALOG NUMBER, FINISH, MANUFACTURER,

1. (3) HINGE, 5BB1 4.5x4.5, 652, IVE
2. (1) VANDL STOREROOM LOCK, ND96TD RHO, 626, SCH, CONFIRM WITH CLIENT FACILITIES' DEPT
3. (1) PRIMUS CORE, 20-74-, 626, SCH, CONFIRM WITH CLIENT FACILITIES' DEPT
4. (1) SURFACE CLOSER), 4040XP, 689 ,LCN
5. (2) KICK PLATE, 8400 10" x 2" LDW B4E, 630, IVE
6. (1) WALL STOP (WHERE APPLICABLE), WS407CCV, 630, IVE
7. (1) SET OF SEALS, S88D, DKB, PEM

SWATT MIERS ARCHITECTS

5845 DOYLE STREET
SUITE 104
EMERYVILLE, CA 94608
TEL. 510 985 9779
FAX. 510 985 0116
WWW.SWATTMIERS.COM

LICENSED ARCHITECT GEORGE MIERS No. C10467 REN. 8 - 31 - 2023 STATE OF CALIFORNIA

JOB COPY
TO REMAIN ON
SITE AT ALL TIMES

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.
Apr 30 2022
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev	Date	Description
	11/05/2021	Permit Submittal
	9/06/2022	Issued for Bid

Drawn By	HE
Checked By	JH
Job. No.	1919
Scale	As indicated

Drawing Title
SCHEDULES

A9.01
Sheet

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ABBREVIATIONS

AB	ANCHOR BOLT	GALV	GALVANIZED	PTDF	PRESSURE TREATED
ABV	ABOVE	GB	GRADE BEAM		DOUGLAS FIR
AC	AIR CONDITIONING	GLB	GLUE LAMINATED BEAM	PT	POINT
ADJ	ADJACENT	GR	GRADE	R	RADIUS
ADDL	ADDITIONAL	HD	HOLD DOWN	RBS	REDUCED BEAM SECTION
ALT	ALTERNATE	HDG	HOT-DIP GALVANIZED	RFTR	RAFTER
ALUM	ALUMINUM	HDR	HEADER	REF	REFERENCE
ARCH	ARCHITECT	HGR	HANGER	REINF	REINFORCING
@	AT	HORIZ	HORIZONTAL	REQ'D	REQUIRED
BLDG	BUILDING	HORIZ	HORIZONTAL	RET	RETAINING
BLK/BLKG	BLOCK/BLOCKING	HS	HIGH STRENGTH	REV	REVISION
BLW	BELOW	HSB	HIGH STRENGTH BOLT	RF	ROOF
BM	BEAM	HSFB	HIGH STRENGTH FRICTION BOLT	RWD	REDWOOD
BN	BOUNDARY NAIL	HSG	HIGH STRENGTH GROUT	S	AMERICAN STANDARD BEAM
BOT	BOTTOM	HSH	HORIZONTAL SLOTTED HOLE	SAD	SEE ARCHITECTURAL DRAWINGS
BRG	BEARING	HSS	HOLLOW STRUCTURAL SECTION	SB	SOLID BLOCK
BTWN	BETWEEN	HT	HEIGHT	SC	SLIP CRITICAL
BU	BUILT-UP	ID	INSIDE DIAMETER	SCBF	SPECIAL CONCENTRIC BRACED FRAME
C	AMERICAN STANDARD CHANNEL	IJ	I SHAPED WOOD BUILT UP TRUSS	SCD	SEE CIVIL DRAWINGS
CANT	CANTILEVER	INTR	INTERIOR	SCHED	SCHEDULE
CB	CARRIAGE BOLT	JST	JOIST	SED	SEE ELECTRICAL DRAWINGS
CFS	COLD FORMED STEEL	JT	JOINT	SEOR	STRUCTURAL ENGINEER OF RECORD
CIP	CAST IN PLACE	KP	KING POST	SFRS	SEISMIC FORCE RESISTING SYSTEM
COL	CERTIFIED GLUED LUMBER	L	STEEL ANGLE	SHTG	SHEATHING
CJ	CONTROL JOINT	L to or #	POUND(s)	SIM	SIMILAR
CJP	CENTER OF COMPLETE JOINT PENETRATION	LGMF	LIGHT GAGE METAL FRAMING	SKYLT	SKYLIGHT
CLG	CEILING	LGMFC	LIGHT GAGE METAL FRAMING CONTRACTOR	SLD	SEE LANDSCAPE DRAWINGS
CLR	CLEAR	LL	LIVE LOAD	SMF	SPECIAL MOMENT FRAME
COL	COLUMN	LLH	LONG LEG HORIZONTAL	SMS	SHEET METAL SCREW
COLL	COLLECTOR	LLV	LONG LEG VERTICAL	SMD	SEE MECHANICAL DRAWINGS
CONC	CONCRETE	LOC	LOCATION	SOG	SLAB ON GRADE
CONN	CONNECTION	LS	LAG SCREW	SPCG	SPACING
CONT	CONTINUOUS	LSL	LAMINATED STRAND LUMBER	SPD	SEE PLUMBING DRAWINGS
COORD	COORDINATE/ COORDINATION	LVL	LAMINATED VENEER LUMBER	SPEC	SPECIFICATION
CMU	CONCRETE MASONRY UNIT	MAX	MAXIMUM	SQ	SQUARE
CSK	COUNTERSINK	MB	MACHINE BOLT	SS	SELECT STRUCTURAL or STAINLESS STEEL
CW	CUT WASHER	MBM	METAL BUILDING MANUFACTURER	STGR	STAGGERED
DBA	DEFORMED BAR ANCHOR	MC	MISCELLANEOUS CHANNEL	STD	STANDARD
DBL	DOUBLE	MECH	MECHANICAL	STIFF	STIFFENER
DCW	DEMAND CRITICAL WELD	MEZZ	MEZZANINE	STL	STEEL
DF	DOUGLAS FIR	MF	MOMENT FRAME	STRUCT	STRUCTURAL
DIA or ø	DIAMETER	MFR	MANUFACTURER	SW	SHEAR WALL
DIAG	DIAGONAL	MIN	MINIMUM	SYM	SYMMETRICAL
DIM	DIMENSION	MISC	MISCELLANEOUS	T&B	TOP AND BOTTOM
DJ	DOWEL JOINT	MW	MALLEABLE IRON WASHER	T&G	TONGUE AND GROOVE
DL	DEAD LOAD	MTL	METAL	THK	THICK
DN	DOWN	(N)	NEW	THRD	THREADED
DO	DITTO	NIC	NOT IN CONTRACT	THRU	THROUGH
DWG	DRAWING	NO or #	NUMBER	TL	TOTAL LOAD
DWL	DOWEL	NS	NEAR SIDE	TOC	TOP OF CONCRETE
EA	EACH	NSG	NON-SHRINK GROUT	TOF	TOP OF FRAMING
EE	EACH END	NTS	NOT TO SCALE	TOM	TOP OF MASONRY
EF	EACH FACE	OC	ON CENTER	TOP	TOP OF PLYWOOD
ELEC	ELECTRICAL	OD	OUTSIDE DIAMETER	TOS	TOP OF STEEL
ELEV	ELEVATOR/ELEVATION	OH	OPPOSITE HAND	TOT	TOTAL
EMBED	EMBEDMENT	OPNG	OPENING	TU	TILT UP
EQ	EQUAL	OPP	OPPOSITE	TYP	TYPICAL
EQUIP	EQUIPMENT	OVER	OVERSIZED	UNO	UNLESS NOTED OTHERWISE
EW	EACH WAY	OW	OTHERWISE	VERT	VERTICAL
EXIST or (E)	EXISTING	OWT	OPEN WEB TRUSS	VIF	VERIFY IN FIELD
EXP	EXPANSION	P	PLATE or PROPERTY LINE	VSH	VERTICAL SLOTTED HOLE
EXT	EXTERIOR	PA	POST ABOVE	W	WIDE FLANGE STEEL BEAM
FDN	FOUNDATION	PDP	POWDER DRIVEN PINS	W/	WITH
FIN	FINISH	PEN	PANEL EDGE NAIL	W/O	WITHOUT
FG	FINISH GRADE	PERP	PERPENDICULAR	WD	WOOD
FL	FERRULE LOOP INSERT	PES	PANEL EDGE SCREWS	WHS	WELDED HEADED STUD
FLR	FLOOR	PJP	PARTIAL JOINT PENETRATION	WP	WORK POINT/WATERPROOF
FN	FACE NAIL	PLF	POUNDS PER LINEAR FOOT	WS	WOOD SCREW
FOC	FACE OF CONCRETE	PNL	PANEL	WT	WEIGHT
FOM	FACE OF MASONRY	PSF	POUNDS PER SQUARE FOOT	WTS	WELDED THREADED STUD
FOS	FACE OF STUD	PSI	POUNDS PER SQUARE INCH	WWR	WELDED WIRE REINFORCEMENT
FRMG	FRAMING	PSL	PARALLEL STRAND LUMBER		
FS	FAR SIDE	PTB	PANEL TIE BAR		
FTG	FOOTING				
GA	GAGE or GAUGE				

D EXISTING CONSTRUCTION NOTES

1. IN PREPARING THE PROJECT PLANS, THE SOURCE OF INFORMATION WAS BASED ON THE EXISTING BUILDING PLANS PREPARED BY, JAMES W. FOUG & ASSOCIATES, DATED JANUARY 16, 1974. THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW THE PLANS AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH ANY WORK. DRAWINGS FOR THE EXISTING CONSTRUCTION ARE AVAILABLE FOR REVIEW.
2. ALL WORK NOT INDICATED AS EXISTING (E) SHALL BE ASSUMED TO BE NEW (N).
3. ANY REMOVAL, CUTTING, DRILLING, ETC OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE. SMALL TOOLS SHALL BE USED IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL ELEMENTS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT/ENGINEER SHALL BE IMMEDIATELY NOTIFIED AND PRIOR APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OF THE MEMBERS.
4. DO NOT OVER CUT EXISTING WORK TO REMAIN. CUTS SHALL BE MADE NEATLY TO A CORNER, THEN ALTERNATE MEANS SHALL BE USED TO REMOVE REMAINING MATERIAL. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF OVER CUT MATERIAL AS DIRECTED BY THE ARCHITECT AND/OR ENGINEER.
5. EXISTING DAMAGED STRUCTURAL MEMBERS WHICH ARE UNCOVERED SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND REPAIR.
6. REMODELING REQUIRES ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS WHICH MAY NOT BE VERIFIABLE WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE STRUCTURE. THIS ANALYSIS DOES NOT, AND MAY NOT MAKE ANY GUARANTEE TO THE ADEQUACY OF THE STRUCTURAL DESIGN OF THE EXISTING BUILDING NOT SPECIFICALLY ADDRESSED IN THE STRUCTURAL CALCULATIONS. ZFA SHALL NOT BE RESPONSIBLE FOR UNSATISFACTORY PERFORMANCE OF EXISTING PORTIONS OF THE STRUCTURE NOT SPECIFICALLY ADDRESSED IN THE CONSTRUCTION DOCUMENTS.

E COLD-FORMED STEEL FRAMING NOTES

1. SEE PLANS, DETAILS, AND ARCHITECTURAL DRAWINGS FOR METAL FRAMING LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR WALL WIDTHS AND CONFIGURATIONS.
2. EACH FRAMING MEMBER IS DESIGNATED BY A FOUR PART CODE INDICATING THE SIZE (BOTH DEPTH AND FLANGE WIDTH), STYLE, AND MATERIAL THICKNESS. FOR EXAMPLE, 600S162-54:

   600 - MEMBER DEPTH IN 1/100" (6")
   S - MEMBER STYLE - S=STUD, T=TRACK
   162 - FLANGE WIDTH IN 1/100" (1⅝")
   54 - MATERIAL THICKNESS IN MILS (0.054")

3. TYPICAL METAL STUDS AND FRAMING ARE PER SCHEDULE 1/S1.2 UNO. SUBMIT SHOP AND ERECTION DRAWINGS AND MANUFACTURER'S INFORMATION SHOWING CONFORMANCE TO CRITERIA SHOWN ON DRAWINGS AND SPECIFICATIONS. MINIMUM METAL THICKNESS = 33MILS (20GA).
4. TYPICAL TRACKS ARE SAME GAUGE (MILS) AS STUD, 43 MILS MINIMUM UNO. FLANGE TO BE 1½" MIN.
5. ALL STUDS TO BE CONTINUOUS. ALL TRACKS IN HEADERS AND SILLS TO BE CONTINUOUS SINGLE-PIECE BETWEEN JAMB STUDS OR PARAPET POSTS.
6. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS OR WELDS NOT SHOWN SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED-UP WITH A ZINC-RICH PAINT. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED.
7. EXPANSION ANCHOR OR SCREW ANCHOR SIZE AND EMBEDMENT ARE AS REQUIRED PER DRAWINGS. MINIMUM STEEL EDGE DISTANCE IN TRACK IS 2x ANCHOR DIAMETER AND MINIMUM SPACING IS 3x ANCHOR DIAMETER UNO. SEE EXPANSION OR SCREW ANCHOR SCHEDULE FOR CONCRETE REQUIREMENTS. FOR EXPANSION ANCHOR THROUGH METAL TRACK, USE 3" SQUARE x ¼" PLATE WASHER (OR EQUIVALENT ROUND WASHER) AT TRACK. DRILL HOLE IN PLATE WASHER FOR EXPANSION ANCHOR AS NEEDED TO ACHIEVE MINIMUM EDGE DISTANCES.
8. METAL STUDS TO BE LATERALLY BRACED WITH GYPSUM BOARD BOTH SIDES PER CBC OR BRACED AT 4'-0"oc MAXIMUM PER 13/S1.2.
9. TYPICAL STUD-TO-TRACK CONNECTIONS PER 4/S1.2 UNO. MAXIMUM GAP OF ⅛" IS ALLOWED BETWEEN STUDS AND TRACK AT STANDARD WALLS. TRIM STUDS TO FULLY BEAR.
10. TYPICAL WALL INTERSECTIONS PER 15/S1.2,UNO.
11. PROVIDE LIGHT GAUGE METAL BACKING FOR ARCHITECTURAL FINISHES AND FURNISHINGS, SAD.
12. CEILING FRAMING PER 3/S1.3 .
13. TYPICAL PUNCHOUTS PER 14/S1.2
14. FOR POWDER FRIVEN PINS (PDP) UNO:

BASE MATERIAL	FASTENER TYPE	SIZE	MINIMUM SPACING	MINIMUM DISTANCE	NOTES
CONCRETE	HILTI X-U (ICC ESR-2269)	0.157"ø MIN 1¼" LONG	4"	3"	DO NOT USE PDP AT CONCRETE CURB
STRUCTURAL STEEL	HILTI X-U (ICC ESR-2269)	0.157"ø x ⅝" LONG	1"	½"	

F MATERIAL DATA

(INFORMATION SHOWN IS FOR STRUCTURAL DESIGN REFERENCE ONLY. SEE THE PROJECT SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS.)MNS

STRUCTURAL STEEL (UNO):
W SHAPES - ASTM A992 (Fy = 50,000 PSI)
ANGLES, CHANNELS, AND PLATES - ASTM A36 (Fy = 36,000 PSI)
RECTANGULAR HSS - ASTM A500 GRADE C (Fy = 50,000 PSI)

FASTENERS:
HIGH STRENGTH BOLTS SHALL BE ASTM F3125 GRADE A325 OR F1852 UNO
ARC-WELDING ELECTRODES SHALL BE E70

COLD FORMED METAL FRAMING YIELD STRENGTH:
F_y = 33,000 PSI 33 & 43 MILS (20 & 18 GAUGE)
F_y = 50,000 PSI 54, 68, & 97 MILS (16, 14, & 12 GAUGE)

GRATING:
METAL GRATING TO BE ITEM NO. GW-150 BY McNICHOLS CO. MATERIAL TO BE CARBON STEEL. FINISH TO BE GALVANIZED. HEIGHT = 1½". SURFACE TO BE SERRATED. BEARING BAR CENTERS = 1 ⅜", CROSS BAR CENTERS = 4". DIRECTION OF BEARING BAR SPAN TO BE PER PLAN. FASTEN EACH GRATING PANEL TO STEEL FRAMING W/ SADDLE CLIP EACH CORNER (4 CLIPS MINIMUM PER PANEL). MAX SPAN = 4'-6" FOR 60 PSF LOAD RATING.

A DESIGN CRITERIA

DESIGN CRITERIA: 2019 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC)
LIVE LOAD: 60 PSF (REDUCIBLE)
ROOF LIVE LOAD: 20 PSF (REDUCIBLE)
RISK CATEGORY: II
WIND DATA: ULTIMATE WIND SPEED (3 SEC GUST) IN MPH: 91
WIND EXPOSURE: C
INTERNAL WIND PRESSURE COEFFICIENT (GCPI) = ±0.18
COMPONENTS AND CLADDING DESIGN PRESSURES FOR SYSTEMS DESIGNED BY OTHERS SHALL COMPLY WITH THE "ASCE 7" DESIGN STANDARD

EARTHQUAKE DATA: SEISMIC IMPORTANCE FACTOR, I_e: 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_S = 1.50; S_1 = 0.60
SITE CLASS: D (BY DEFAULT)
SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 1.20; S_{D1} = 0.68
SEISMIC DESIGN CATEGORY: D

CH. 15 - NON-BUILDING STRUCTURES DESIGN CRITERIA (ASCE 7):
SUPPORT PLATFORM - STEEL ORDINARY MOMENT FRAME:
R = 2½ : Ω_o = 2 : C_d = 2½ : V = 1.44W

*PLATFORM DESIGNED ACCORDING TO CH.13 (ASCE 7-16), WITH R-FACTOR PER CH.15 PER SECTION 13.1.6

CH. 13 - NONSTRUCTURAL COMPONENT DESIGN CRITERIA (ASCE 7):
MECHANICAL UNIT & SPRING ISOLATOR ANCHORAGE:
a_p = 2½ : R_p = 2 : Ω_o = 2 : F_p = 1.80W

SCOPE: INTERIOR TENANT IMPROVEMENTS OF AN EXISTING BUILDING AND DESIGN OF A STEEL FRAME-PLATFORM AT THE ROOF LEVEL TO SUPPORT NEW HEAT PUMP UNITS AND SCREEN WALL.

B GENERAL NOTES

1. REFER TO SHEETS S1.1, S1.2, AND S1.3 FOR STANDARD DETAILS OF CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR MATERIALS AND METHODS.
2. BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS (SAD) FOR ALL ACTUAL BUILDING DIMENSIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE PRIOR TO COMMENCING WORK.
3. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK.
4. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
5. COORDINATION OF MECHANICAL, ELECTRICAL, PLUMBING, AND SITE UTILITY SYSTEMS WITH THE STRUCTURAL SYSTEM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. AT CONDITIONS WHERE FIELD MODIFICATIONS OF MECHANICAL, ELECTRICAL, PLUMBING, OR SITE UTILITIES AFFECT STRUCTURAL SYSTEMS, NOTIFY STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
6. VERIFY WEIGHTS AND LOCATIONS OF MECHANICAL UNITS WITH MECHANICAL ENGINEER PRIOR TO PLACEMENT. UNITS VARYING OVER 10% IN WEIGHT SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION (MECHANICAL WEIGHTS SHOWN ARE MAXIMUM). CONTRACTOR TO VERIFY MECHANICAL UNIT SIZES AND WEIGHTS AS INSTALLED PRIOR TO INSTALLATION OF SPECIAL FRAMING .
7. SHORING AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, AND SHALL BE ADEQUATE FOR ALL LOADS. LEAVE IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL FINAL STRUCTURAL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL ENGAGE A LICENSED CIVIL OR STRUCTURAL ENGINEER TO PROVIDE SHORING.
8. SPECIAL INSPECTIONS ARE REQUIRED PER C/S0.1AND THE TESTING AND INSPECTION FORM.
9. STRUCTURAL OBSERVATION PER CBC SECTION 1704.6 IS NOT REQUIRED. NOTIFY ZFA FOR GENERAL REVIEW OF:
   - STEEL FRAMING.

   NOTIFY ZFA FOR REVIEW PRIOR TO COVERING ABOVE LISTED WORK, PROVIDE 2 WORKING DAYS MINIMUM SCHEDULING NOTICE PRIOR TO REVIEW DATE.
10. SUBMIT ENGINEERING FOR DEFERRED APPROVAL ITEMS TO ARCHITECT/ENGINEER FOR REVIEW AND SUBMITTAL TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION. DEFERRED APPROVAL ITEMS SHALL BE DESIGNED AND DETAILED BY MANUFACTURER TO ACCOMMODATE HORIZONTAL AND VERTICAL MOVEMENTS AS NOTED IN STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL REVIEW AND APPROVE DIMENSIONS AND DETAILS SHOWN ON THE SHOP DRAWINGS PRIOR TO SUBMITTAL. MANUFACTURER TO PROVIDE DRAWINGS AND CALCULATIONS DESIGNED IN ACCORDANCE WITH THE CBC AND SPECIFICATIONS, PREPARED AND SIGNED BY A CALIFORNIA LICENSED CIVIL OR STRUCTURAL ENGINEER FOR THE FOLLOWING ITEMS, UNLESS NOTED OTHERWISE:
    A. MECHANICAL SCREEN WALL SYSTEM.
    B. ROOF GUARDRAIL SYSTEM.

C SPECIAL INSPECTION BY OWNERS TESTING AGENCY

SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY AN APPROVED AGENCY IN ACCORDANCE WITH CBC CHAPTER 17 AND THE STATEMENT OF SPECIAL INSPECTIONS AS REQUIRED BY CBC SECTIONS 1704.2.3 AND 1704.3 FOR BUILDING STRUCTURAL ELEMENTS SUMMARIZED AS FOLLOWS:

1. **SHOP FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES** PER CBC SECTION 1704.2.5 OR ALTERNATIVELY, APPROVED FABRICATORS SHALL SUBMIT A CERTIFICATE OF COMPLIANCE PER CBC SECTION 1704.2.5.1 INCLUDING GLULAM BEAM INSPECTION CERTIFICATES.
2. **STRUCTURAL STEEL CONSTRUCTION** PER CBC SECTIONS 1705.2, 1705.12.1, 1705.13.1, AND TABLE 1705.2.3 INCLUDING MATERIAL IDENTIFICATION, SHOP AND FIELD WELDING, AND INSTALLATION OF HIGH-STRENGTH BOLTS.
3. **SPECIAL CASES** PER CBC SECTION 1705.1.1 AND PRODUCT ICC REPORTS FOR ALL STRUCTURAL MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN THE CBC OR REFERENCED STANDARDS INCLUDING POST-INSTALLED ANCHOR BOLTS IN CONCRETE AND CMU, AND PRE-MANUFACTURED SHEAR PANELS AND BRACED FRAMES.

SHEET INDEX

S0.1	GENERAL NOTES AND SPECIFICATIONS
S1.1	STEEL FRAMING DETAILS
S1.2	TYPICAL METAL STUD ELEVATION AND CONNECTION DETAILS
S1.3	TYPICAL METAL STUD ELEVATION AND CONNECTION DETAILS
S2.1	EXISTING ROOF FRAMING PLAN
S2.2	MECHANICAL PLATFORM FRAMING PLAN
S2.3	PENTHOUSE ROOF FRAMING PLAN
S3.1	PLATFORM FRAME ELEVATIONS
S4.1	STEEL DETAILS

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Issue

Rev	Date	Description
	11/05/2021	PERMIT SUBMITTAL
	9/06/2022	Issued for Bid

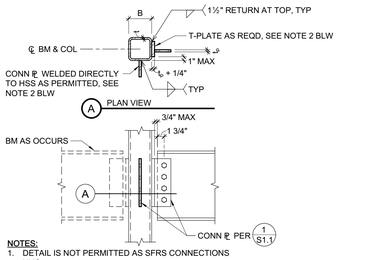
Drawn By	LS
Checked By	DM
Job. No.	19525
Scale	As indicated

Drawing Title

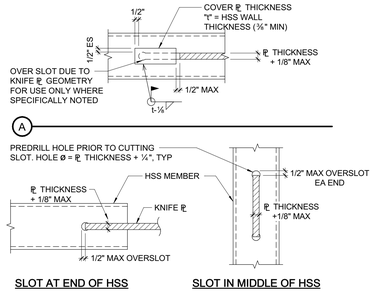
GENERAL NOTES AND SPECIFICATIONS

S0.1

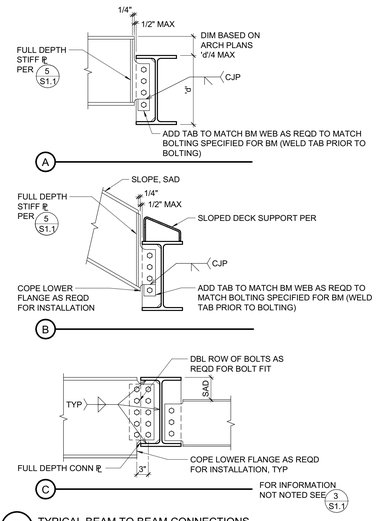
Sheet



14 BEAM TO HSS COLUMN ("T" PLATE)
3/4" = 1'-0"



10 TYPICAL SLOTTED HSS FOR GUSSET CONNECTION
1 1/2" = 1'-0"

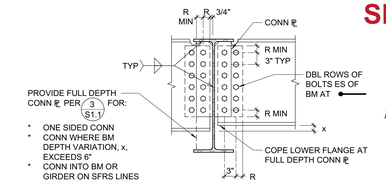


6 TYPICAL BEAM TO BEAM CONNECTIONS
3/4" = 1'-0"

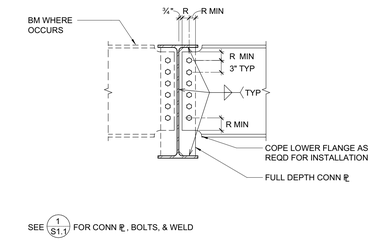
BEAM DEPTH	NO. BOLTS PER ROW	CONN. PLATE	WELD SIZE
W8, W10	2	ℙ ¾	5⁄16"
W12, W14	3	ℙ ¾	5⁄16"
W16	4	ℙ ⅜	5⁄16"
W18	5	ℙ ⅜	5⁄16"
W21	5	ℙ ½	⅜"
W24	6	ℙ ½	⅜"
W27	7	ℙ ½	⅜"
W30	8	ℙ ½	⅜"
W33	9	ℙ ½	⅜"
W36	10	ℙ ½	⅜"

NOTES:
1. R = 1¾" SEE TYP CONNECTION DETAILS. BOLT SPACING AND EDGE DISTANCE SHALL CONFORM TO AISC SPECIFICATIONS.
2. HIGH STRENGTH BOLTS (HSB) ARE GRADE A325-N UNO. PREPARE MATING SURFACES & TIGHTEN "SNUG TIGHT" AS DEFINED IN THE SPECIFICATIONS. AT LINES MARKED "SFRS" (SEISMIC FORCE RESISTING SYSTEM) HSB AND MATING SURFACES ARE SLIP CRITICAL CLASS A, UNO.
3. USE ASTM A36 CONNECTION PLATES, UNO.
4. A COMPLETE PENETRATION BEVEL WELD MAY BE SUBSTITUTED FOR THE FILLET WELDS SPECIFIED.
5. HOLE SIZE = BOLT SIZE + 1⁄16" (BOLT SIZE + ⅛" FOR 1"ø AND LARGER BOLTS). SHORT SLOTTED HOLES (+1⁄16" VERT, + ¼" HORIZ) MAY BE SUBSTITUTED (EXCEPT AS NOTED) ROUND HOLES ARE REQUIRED AT SFRS CONNECTIONS.
6. USE SAME CONNECTIONS AT CHANNELS. FOR W6, C6 & ANGLES USE PLATE, WELD & BOLT SIZE PER W8 & SEE 4/S1.1 .

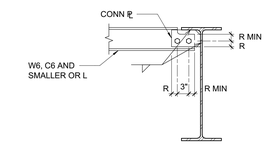
1 ¾"ø HIGH STRENGTH BOLT (HSB) CONNECTION SCHEDULE
3/4" = 1'-0"



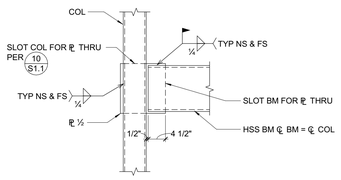
2 TYPICAL BEAM TO BEAM CONNECTION
3/4" = 1'-0"



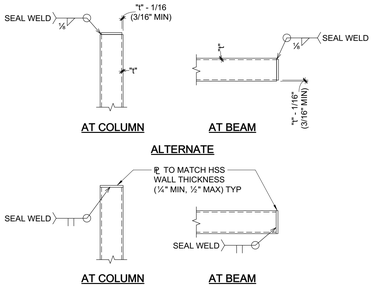
3 TYPICAL FULL DEPTH BEAM TO BEAM CONNECTION
3/4" = 1'-0"



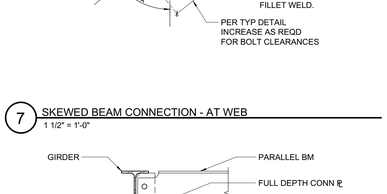
4 TYPICAL SHALLOW BEAM DETAIL
3/4" = 1'-0"



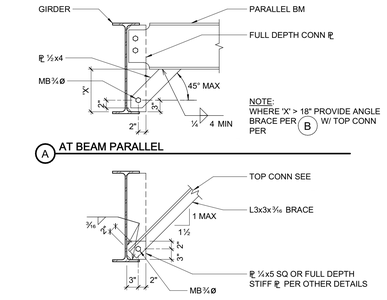
15 HSS BEAM TO HSS COLUMN
3/4" = 1'-0"



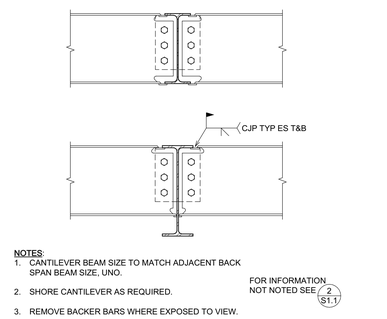
11 TYPICAL CAP PLATE
3/4" = 1'-0"



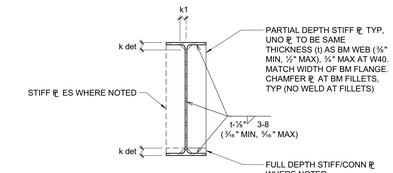
7 SKEWED BEAM CONNECTION - AT WEB
1 1/2" = 1'-0"



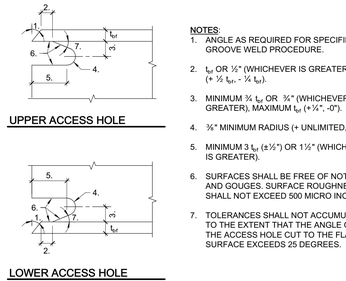
8 TYPICAL BEAM BOTTOM FLANGE BRACE
3/4" = 1'-0"



9 BEAM TO BEAM MOMENT CONNECTION
1" = 1'-0"

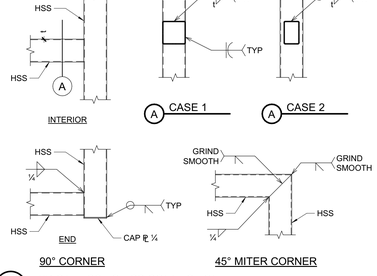


5 TYPICAL BEAM WEB STIFFENER PLATE DETAIL
3/4" = 1'-0"

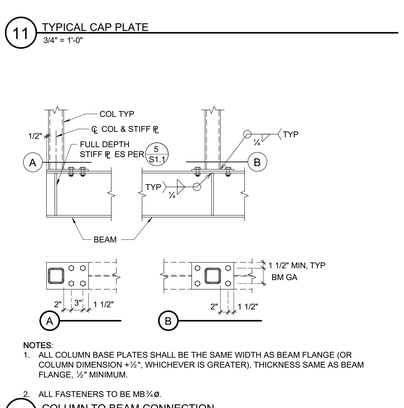


NOTES:
1. ANGLE AS REQUIRED FOR SPECIFIED GROOVE WELD PROCEDURE.
2. t_{ef} OR 1⁄4" (WHICHEVER IS GREATER) (+ ½ t_{ef}, - ¼ t_{ef}).
3. MINIMUM ¾ t_{ef} OR ⅜" (WHICHEVER IS GREATER), MAXIMUM t_{ef} (+½", -0").
4. ⅜" MINIMUM RADIUS (+ UNLIMITED, - 0").
5. MINIMUM 3 t_{ef} (±½") OR 1½" (WHICHEVER IS GREATER).
6. SURFACES SHALL BE FREE OF NOTCHES AND GOUGES. SURFACE ROUGHNESS SHALL NOT EXCEED 500 MICRO INCHES.
7. TOLERANCES SHALL NOT ACCUMULATE TO THE EXTENT THAT THE ANGLE OF THE ACCESS HOLE CUT TO THE FLANGE SURFACE EXCEEDS 25 DEGREES.

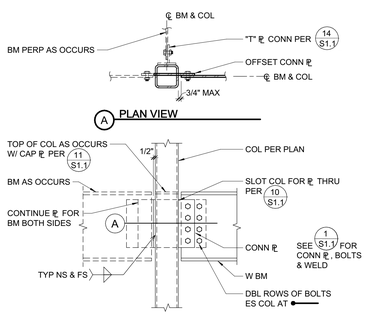
17 WELD ACCESS HOLE DETAIL
3/4" = 1'-0"



16 TYPICAL HSS TO HSS CONNECTION
3/4" = 1'-0"



12 COLUMN TO BEAM CONNECTION
3/4" = 1'-0"



13 BEAM EACH SIDE TO HSS COLUMN
3/4" = 1'-0"

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Scale	As indicated

Drawing Title
STEEL FRAMING DETAILS

S1.1

Sheet

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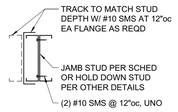
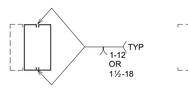
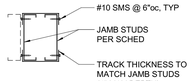


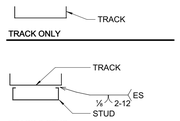
BACK-TO-BACK CONNECTION



WELDED CONNECTION



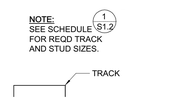
BOXED CONNECTION



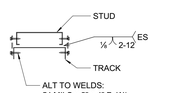
TRACK & STUD

MULTIPLE TRACKS & STUDS

A JAMB STUD CONFIGURATIONS



TRACK ONLY

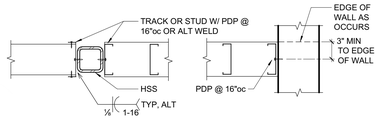


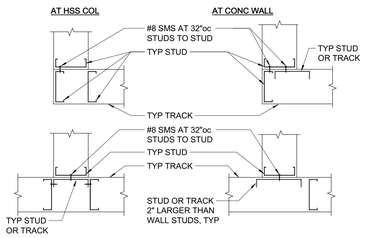
TRACK & STUD

B HEADER CONFIGURATIONS

C SILL CONFIGURATIONS

12 TYPICAL NON-BEARING HEADERS AND SILLS
1 1/2" = 1'-0"



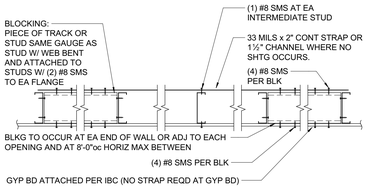


15 TYPICAL CORNERS AND INTERSECTIONS
1" = 1'-0"

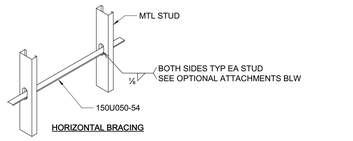
TYPE 1
(MAX LOAD 50 PLF)

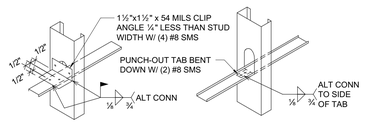
TYPE 2
(MAX LOAD 200 PLF)

16 WALL BACKING PLATE
1" = 1'-0"



OPTION 2



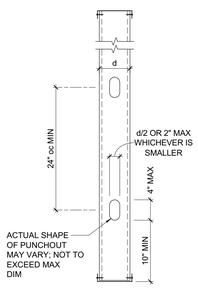


OPTIONAL ATTACHMENT A OPTIONAL ATTACHMENT B

OPTION 1

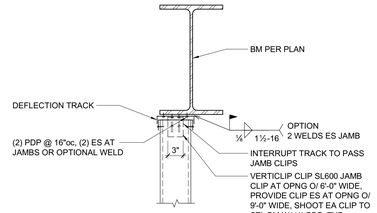
NOTES:
1. BRIDGING MAY BE PER OPTION 1 OR 2.
2. PROVIDE BRIDGING @ 4'-0"oc.
3. BRIDGING IS NOT REQUIRED WHERE PROPERLY ATTACHED SHEATHING (NOT GYP) OCCURS ON BOTH SIDES OF STUDS.
4. 8" MAX STUD DEPTH.
5. PROVIDE BLOCKING PER OPTION 2 AT LOCATIONS INDICATED ON DRAWINGS OR OTHER DETAILS

13 WALL BRIDGING/BLOCKING
1" = 1'-0"



TYP STUD/TRACK PUNCHOUT

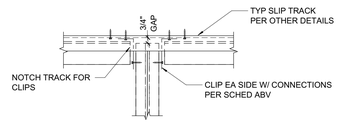
14 TYPICAL STUD PUNCHOUT
1" = 1'-0"



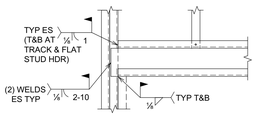
8 ATTACHMENT OF JAMB STUDS TO STEEL BEAM
1" = 1'-0"

CLIP	CONN TO STUD	CONN TO ABV	MIN JAMB STUD THICKNESS	NOTES
SIMPSON SCW	(2) #14	(2) #12	43 MILS	
STL NETWORK SL CLIP	(3) #12	(3) #12	43 MILS	
4"x2"x97MILSx4" CLIP W/ ¼"x2" VSH	(2) #12	(2) #12	43 MILS	

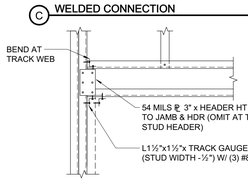
NOTE: PROVIDE CLIP ES JAMB STUD AT ALL OPENING GREATER THAN 4'-0"



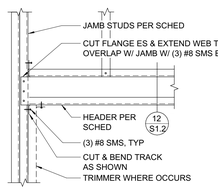
9 JAMB STUD DEFLECTION TRACK
1 1/2" = 1'-0"



C WELDED CONNECTION

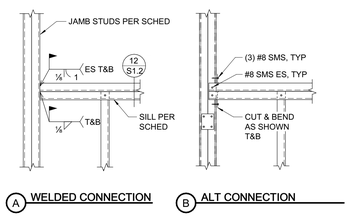


B ALT SCREWED CONNECTION



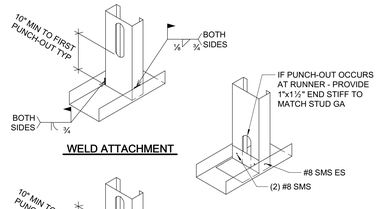
A SCREWED CONNECTION

10 TYPICAL HEADER CONNECTION - NON BEARING WALL
1" = 1'-0"

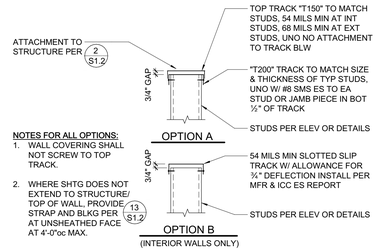


A WELDED CONNECTION B ALT CONNECTION

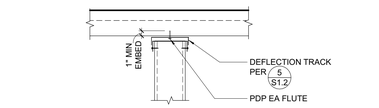
11 TYPICAL SILL CONNECTION
1" = 1'-0"



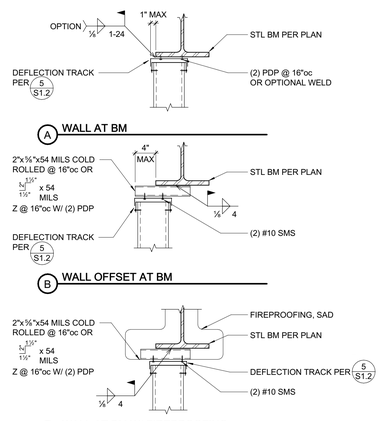
4 STUD OR JOIST TO TRACK
1" = 1'-0"



5 NON-BEARING WALL DEFLECTION TRACK AT TOP
1" = 1'-0"



6 ATTACHMENT OF NON-BEARING STUDS TO METAL DECK WITH CONCRETE FILL
1" = 1'-0"

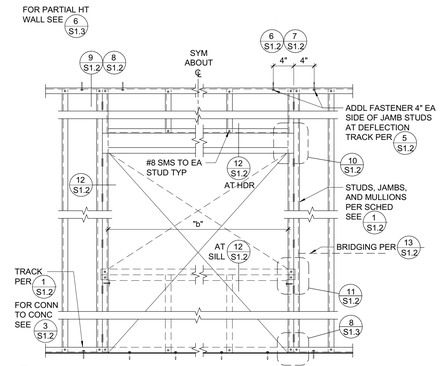


7 ATTACHMENT OF NON-BEARING STUDS TO STEEL BEAM
1" = 1'-0"

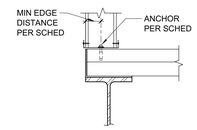
1 SCHEDULE - COLD FORMED METAL FRAMING, UNO
3/4" = 1'-0"

COLD FORMED FRAMING SCHEDULE				
LOCATION	MINIMUM MEMBER SIZE	MAX SPAN/LENGTH	MAX SPACING UNO	REFERENCE DETAIL
INTERIOR STUDS	362S162-43	18'-0"	16"oc	
	600S162-33	30'-0"	16"oc	
INTERIOR STUDS W/ SHELVING OR EQUIPMENT ANCHORAGE	362S162-54	15'-0"	16"oc	
	600S162-43	15'-0"	16"oc	
INTERIOR HEADERS	(2) 600S162-33 STUDS AND (2) 362T150-43 TRACKS	b ≤ 12'-0"		
	(2) 800S162-54 STUDS AND (2) 600T150-33 TRACKS			
	(2) 362S162-33 STUDS AND (2) 362T150-43 TRACKS	b ≤ 8'-0"		SEE 12 S1.2
	362T200-43 (OR 600T200-43)	b ≤ 4'-0"		
INTERIOR SILLS	362S162-43 STUD AND 362T150-43 TRACK (OR 600S162-33 AND 600T150-33)	b ≤ 14'-0"		SEE 12 S1.2
	362T150-43 (OR 600T150-43)	b ≤ 8'-0"		
INTERIOR JAMBS	(2) 362S162-43 (OR (2) 600S162-33)	15'-0"	b ≤ 12'-0"	SEE 12 S1.2
	362S162-43 (OR 600S162-33)	15'-0"	b ≤ 4'-0"	
CEILING JOISTS	362S162-33	10'-0"	16"oc	SEE 3 S1.3
	600S162-43	17'-0"	16"oc	
CEILING HANGERS	362S162-43	h ≤ 6'-0"		SEE 3 S1.3
	362S162-43 & 362T150-43	h ≤ 8'-0"		

1. TYPICAL TRACKS TO BE SAME GAUGE AS STUD, 43 MIL MIN (UNO). FLANGE TO BE 1½" MIN.
2. TYP WALL BRIDGING/BLKG PER 13/S1.2 .
3. TYP STUD/JOIST TO TRACK PER 4/S1.2 .
4. COORDINATE STUD DEPTH W/ ARCH DRAWINGS. INCREASE MIN HDR, SILL OR JAMB MEMBER DEPTHS AS REQD TO MATCH ACTUAL WALL STUD DEPTH.
5. "b" INDICATES OPENING WIDTH PER 2/S1.2
6. JAMBS TO CONTINUE TO FOUNDATION AT MULTI-STORY CONDITIONS.
7. METAL STUD SECTIONS THAT ARE PART OF BUILT-UP HEADERS SHALL BE UNPUNCHED.



2 INTERIOR NON-BEARING WALL (OPENING AS OCCURS)
1" = 1'-0"



CONC OVER METAL DECK

	ANCHOR TYPE, DIAMETER AND SPACING			
LOCATION	SCREW ANCHOR	POWDER DRIVEN PINS	EXPANSION ANCHOR	CAST-IN-PLACE
INTERIOR WALL SLAB ON MTL DECK	¼"ø @ 48"oc	0.157"ø @ 16"oc	¼"ø @ 48"oc	N/A
MIN CONC EDGE DISTANCE	1¼"	3"	3"	3"
REF DETAIL & NOTES	9 S1.3	STAGGER PINS	10 S1.3	NOTE #4

NOTES:
1. PROVIDE (2) ANCHORS MIN PER TRACK SEGMENT.
2. FOUNDATION AND SLAB REINFORCING PER OTHER DETAILS.
3. CENTER FASTENERS W/ TRACK, UNO.
4. SEE PLAN AND SCHEDULE FOR ADDITIONAL ANCHORAGE REQUIREMENTS, AS OCCURS.

3 TYPICAL BOTTOM TRACK ANCHORS AT CONCRETE
1" = 1'-0"

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REVIEWED FOR CODE COMPLIANCE
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Approved
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303

Issue

Rev	Date	Description
	11/05/2021	PERMIT SUBMITTAL
	9/06/2022	Issued for Bid

Drawn By	ZFA
Checked By	Checker
Job. No.	19525
Scale	As indicated

Drawing Title

TYPICAL METAL STUD ELEVATION AND CONNECTION DETAILS

S1.2

Sheet

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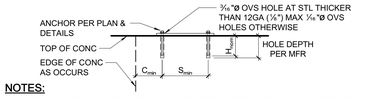
SCREW ANCHOR IN 2500 PSI MIN CONCRETE							
ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT H_{nom}	MINIMUM EDGE DIST C_{min}	MINIMUM SPCG S_{min}	MINIMUM CONCRETE THICKNESS H_{min}	MIMIMUM INSTALL TORQUE (FT-LB)	MAXIMUM INSTALL TORQUE (FT-LB)
SIMPSON TITEN HD (ICC-ESR 2713)	¼"	1¾"	1½"	1½"	3¼"	10	24
	⅜"	2½"	1¾"	3"	4"	10	50
	½"	3¼"	1¾"	3"	5"	10	65
	⅝"	4"	1¾"	3"	6"	10	100
	¾"	5½"	1¾"	3"	8¾"	20	150
HILTI KH-EZ (ICC-ESR 3027)	¼"	1¾"	1½"	1½"	3¼"	10	18
	⅜"	2½"	1½"	3"	4"	10	40
	½"	3"	1¾"	3"	4¾"	10	45
	⅝"	3¼"	1¾"	4"	5"	10	85
	¾"	4"	1¾"	4"	6"	20	95

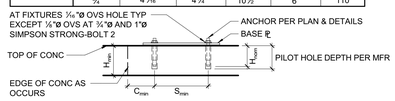


NOTES:

1. INSTALL SCREW ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705 OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL TORQUE BUT NOT EXCEEDING THE MAXIMUM INSTALL TORQUE.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE

9 SCREW ANCHOR IN CONCRETE
3/4" = 1'-0"

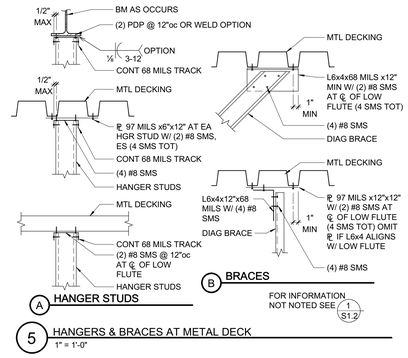
CARBON STL EXPANSION ANCHORS IN 2500 PSI MIN CONC						
ANCHOR TYPE	ANCHOR & PILOT HOLE DIA	MIN NOMINAL EMBED H_{nom}	MIN EDGE DISTANCE C_{min}	MIN SPCG S_{min}	MIN CONC THICKNESS H_{min}	INSTALL TORQUE (FT-LB)
SIMPSON STRONG-BOLT 2 (ICC-ESR 3037)	⅜"	1⅛"	6"	3"	3¼"	30
	½"	2¼"	6"	6"	4"	60
	⅝"	3⅜"	6½"	5"	5½"	90
	¾"	4⅛"	6½"	8"	6¾"	150
	1"	5¼"	8"	8"	9"	230
HILTI KWIK BOLT TZ (ICC-ESR 1917)	⅜"	2⅜"	2½"	5"	4"	25
	½"	2⅜"	2¾"	5¾"	4"	40
	⅝"	3⅜"	3⅜"	6⅛"	5"	60
	¾"	4⅜"	4¾"	10½"	6"	110



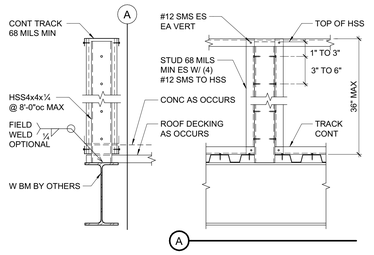
NOTES:

1. INSTALL EXPANSION ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705 AND THE REQUIREMENTS OF THE ICC REPORTS.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.

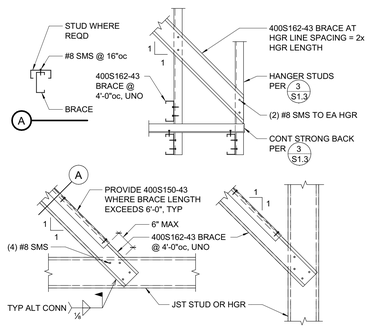
10 EXPANSION ANCHOR IN CONCRETE
3/4" = 1'-0"



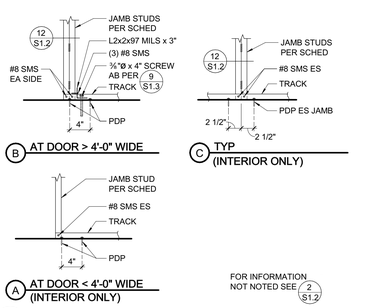
5 HANGERS & BRACES AT METAL DECK
1" = 1'-0"



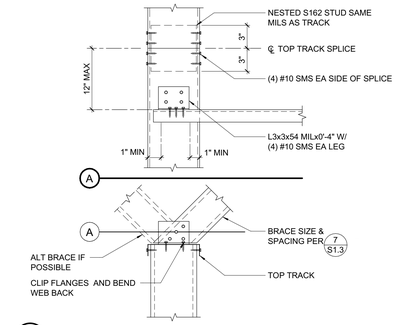
6 TYPICAL SECTION AT PARTIAL HEIGHT WALL
1" = 1'-0"



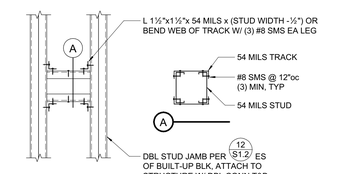
7 TYPICAL BRACE CONNECTIONS
1" = 1'-0"



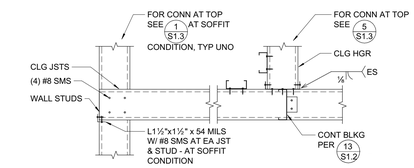
8 JAMB STUD BASE
1" = 1'-0"



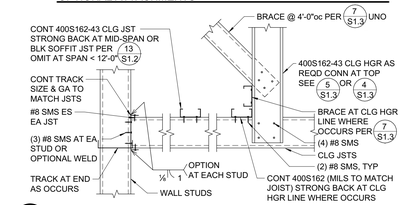
1 TYPICAL BRACE AT TOP OF PARTIAL HT WALL
1 1/2" = 1'-0"



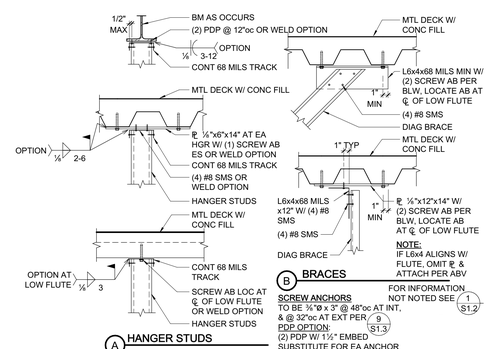
2 HEAVY DUTY WALL BACKING PLATE
1" = 1'-0"



OPTIONAL ATTACHMENTS



3 TYPICAL CEILING JOIST FRMG AT FULL HEIGHT METAL STUDS
1" = 1'-0"



4 HANGERS & BRACES AT METAL DECK WITH CONC FILL
1" = 1'-0"

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Apr 14, 2022
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303

Issue

Rev	Date	Description
	11/05/2021	PERMIT SUBMITTAL
	9/06/2022	Issued for Bid

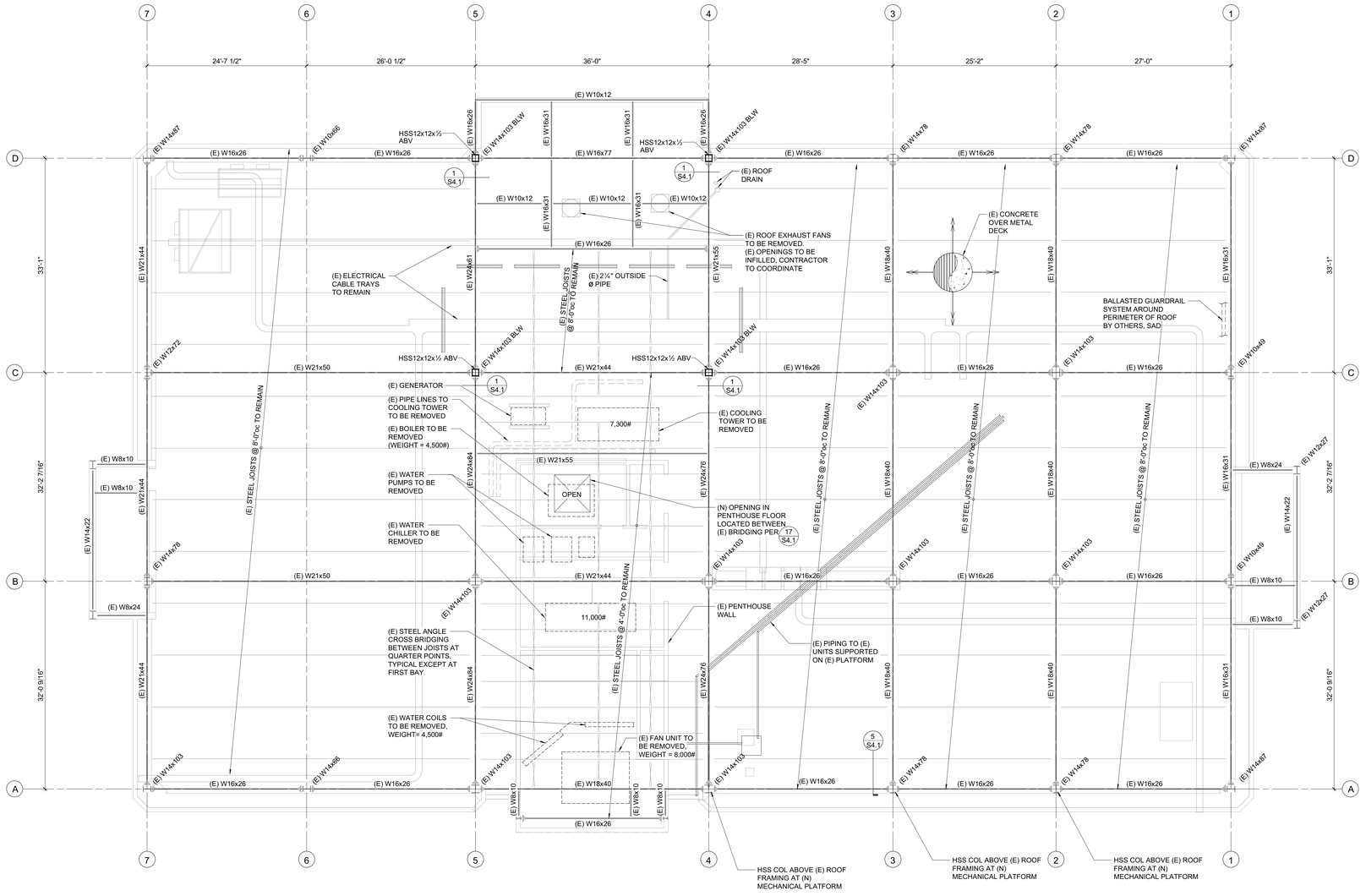
Drawn By ZFA
Checked By Checker
Job. No. 19525
Scale As indicated

Drawing Title

TYPICAL METAL STUD ELEVATION AND CONNECTION DETAILS

S1.3

Sheet



NORTH

EXISTING ROOF FRAMING PLAN

1/8" = 1'-0"

FRAMING PLAN NOTES:

1. REFER TO SHEETS S0.1, S1.1, S1.2 AND S1.3 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
3. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMING, COLUMNS, OR BASE PLATES. CONDUIT OR PLUMBING NOT ALLOWED WITHIN CONCRETE FILL ON METAL DECK. PROVIDE FURRING WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY ARCHITECT/ENGINEER PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE RESTRICTIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR TOP OF STEEL ELEVATION.
5. BEAM CENTERLINES TO ALIGN WITH COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
6. BEAMS TO BE EQUALLY SPACED IN EACH BAY, UNLESS NOTED OTHERWISE.

PLAN LEGEND		
SYMBOL	REFERENCE DETAIL	DESCRIPTION
88		INDICATES GRIDLINE AT CENTERLINE OF COLUMN.
O.□.I		INDICATES STEEL COLUMN.
W16x26		INDICATES EXISTING JOIST AND BEAM SIZE.
		INDICATES FRAME MOMENT RESISTING CONNECTION.
MU 1,000#		INDICATES APPROXIMATE LOCATION, SIZE AND MAXIMUM WEIGHT OF MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ANCHORAGE AND ADDITIONAL INFORMATION.
S3.1		INDICATES ELEVATION.
		INDICATES EXISTING FRAMING.

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April 20, 2022
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EAST PALO ALTO GOVERNMENT CENTER

2415 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303

Issue

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	11/05/2021	PERMIT SUBMITTAL
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Drawn By	LS
Checked By	DM
Job. No.	19525
Scale	As indicated

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EXISTING ROOF FRAMING PLAN

S2.1

Sheet

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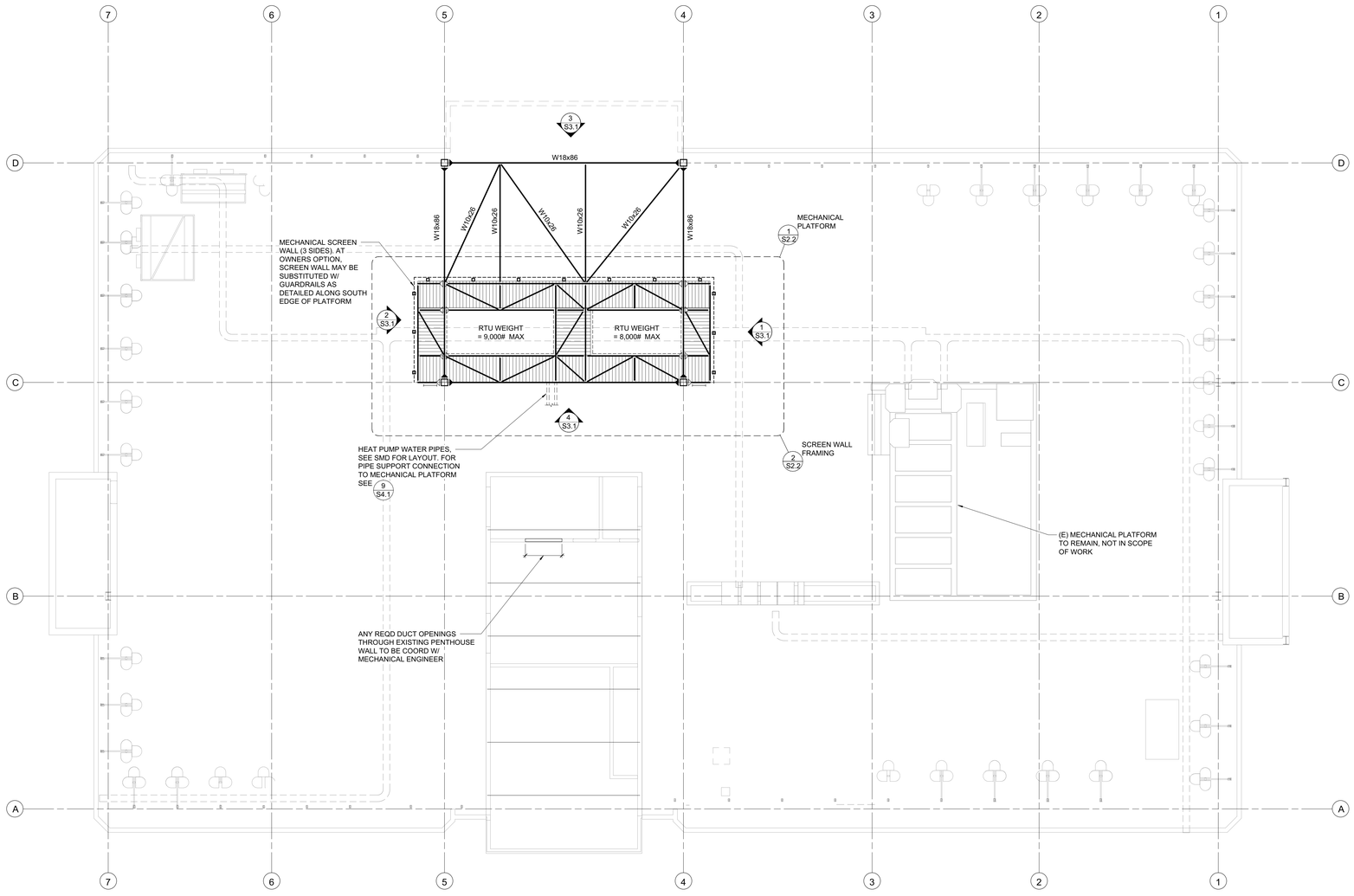
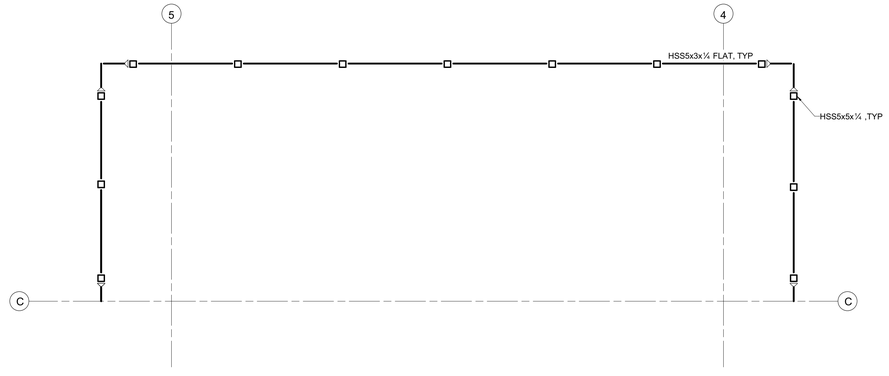


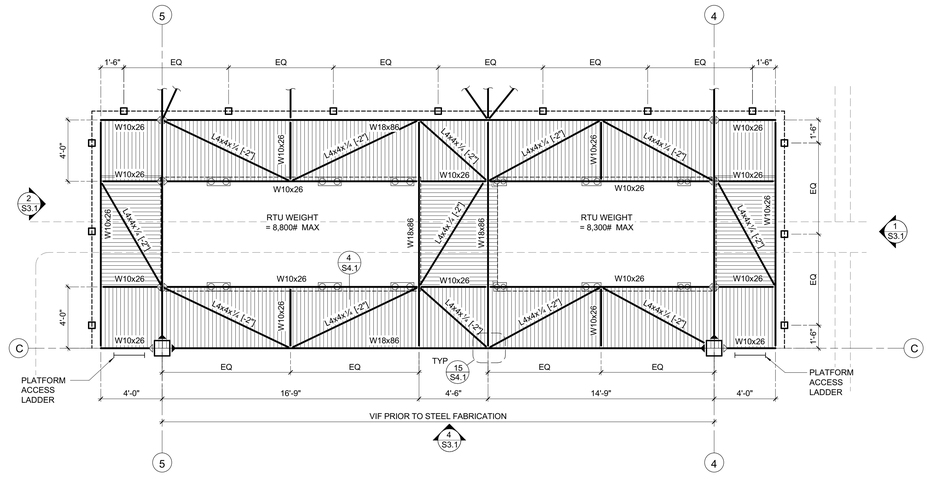
MECHANICAL PLATFORM FRAMING PLAN

1/8" = 1'-0"



2 PARTIAL FRAMING PLAN - SCREEN WALL FRAMING

1/4" = 1'-0"



1 MECHANICAL PLATFORM FRAMING PLAN

1/4" = 1'-0"

FRAMING PLAN NOTES:

1. REFER TO SHEETS S0.1, S1.1, S1.2 AND S1.3 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
3. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMING, COLUMNS, OR BASE PLATES. CONDUIT OR PLUMBING NOT ALLOWED WITHIN CONCRETE FILL ON METAL DECK. PROVIDE FURRING WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY ARCHITECT/ENGINEER PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE RESTRICTIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR TOP OF STEEL ELEVATION.
5. BEAM CENTERLINES TO ALIGN WITH COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
6. BEAMS TO BE EQUALLY SPACED IN EACH BAY, UNLESS NOTED OTHERWISE.
7. ALL BOLTS TO BE SLIP CRITICAL WITH CLASS A FAYING SURFACE PREPARATION, UNO.

PLAN LEGEND

SYMBOL	REFERENCE DETAIL	DESCRIPTION
88		INDICATES GRIDLINE AT CENTERLINE OF COLUMN.
		INDICATES STEEL COLUMN.
W16x26 [-2"]		INDICATES BEAM SIZE, AND ELEVATION RELATIVE TO TOP OF MECHANICAL PLATFORM STEEL FRAMING.
	9/S1.1	INDICATES NON-FRAME MOMENT RESISTING CONNECTION.
	2/S4.1	INDICATES FRAME MOMENT RESISTING CONNECTION.
MU 1,000#		INDICATES APPROXIMATE LOCATION, SIZE AND MAXIMUM WEIGHT OF MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ANCHORAGE AND ADDITIONAL INFORMATION.
1 S3.1		INDICATES ELEVATION.
		INDICATES EXISTING FRAMING.
BEARING BARS		INDICATES STEEL GRATING AT PLATFORM WALKWAYS.
		INDICATES SEISMIC SPRING ISOLATOR. LOCATION TO BE COORDINATED BETWEEN MECHANICAL AND SPRING ISOLATOR MANUFACTURER.

SWATT MIERS ARCHITECTS
5845 DOYLE STREET
SUITE 104
EMERYVILLE, CA 94608
TEL 510 985 9779
FAX. 510 985 0116
WWW.SWATTMIERS.COM

REGISTERED PROFESSIONAL ENGINEER MATT P. FRANTZ STRUCTURAL No. 5918 STATE OF CALIFORNIA

ZFA STRUCTURAL ENGINEERS
1390 el camino real, suite 100
san carlos ca 94070
zfa job no 19525
650.394.8809
zfa.com

EAST PALO ALTO GOVERNMENT CENTER

2415 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303

Issue

Rev	Date	Description
	11/05/2021	PERMIT SUBMITTAL
	9/06/2022	Issued for Bid

Drawn By	LS
Checked By	DM
Job. No.	19525
Scale	As indicated

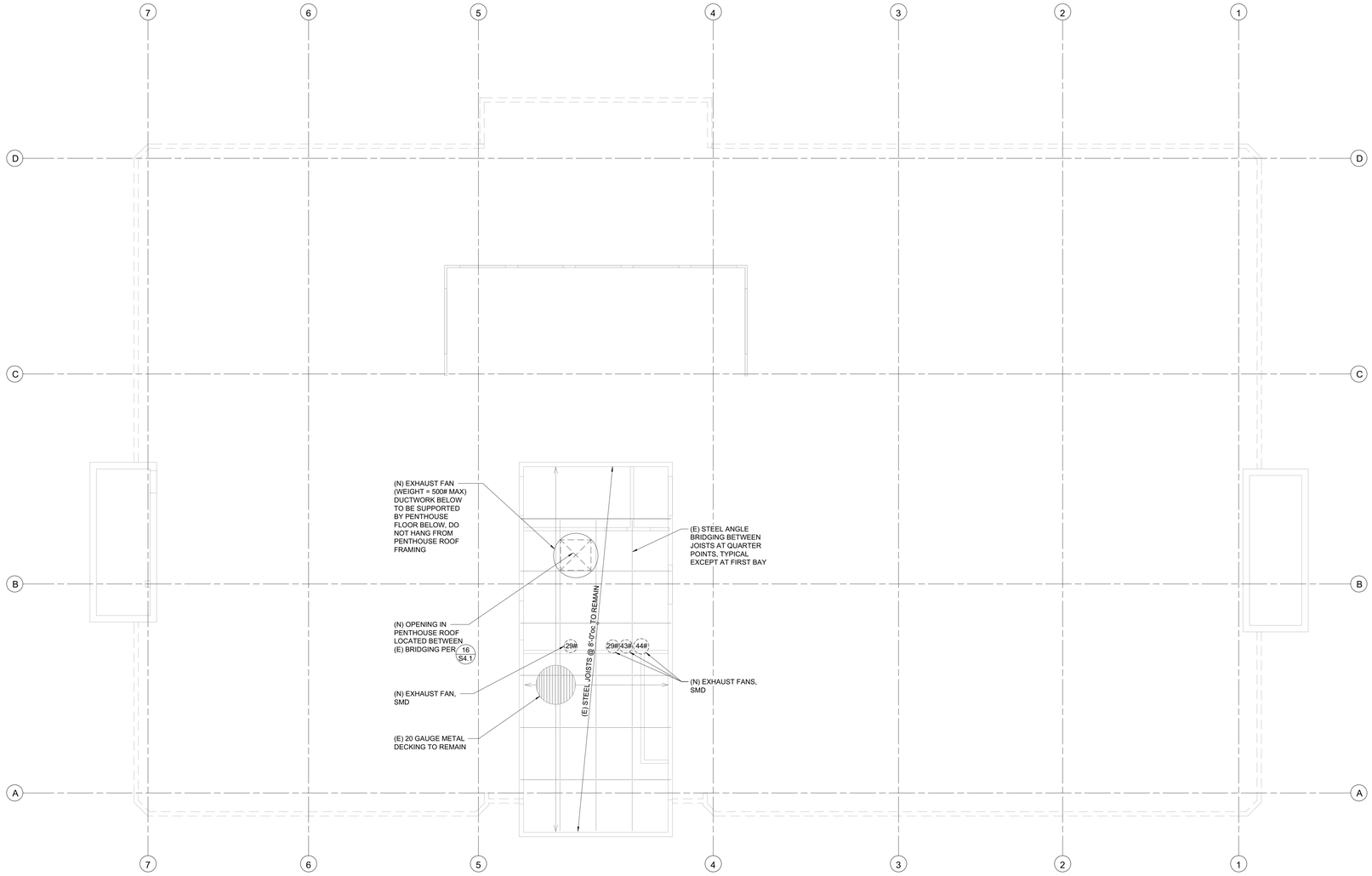
Drawing Title

MECHANICAL PLATFORM FRAMING PLAN

S2.2

Sheet

11/3/2021 5:15:53 PM



NORTH

PENTHOUSE ROOF FRAMING PLAN

1/8" = 1'-0"

FRAMING PLAN NOTES:

1. REFER TO SHEETS S0.1, S1.1, S1.2 AND S1.3 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
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PLAN LEGEND

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MU 1,000#		INDICATES APPROXIMATE LOCATION, SIZE AND MAXIMUM WEIGHT OF MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ANCHORAGE AND ADDITIONAL INFORMATION.
1 / S3.1		INDICATES ELEVATION.
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STATE OF CALIFORNIA

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650.394.6039

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.
Approved
SAN MATEO COUNTY BUILDING DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303

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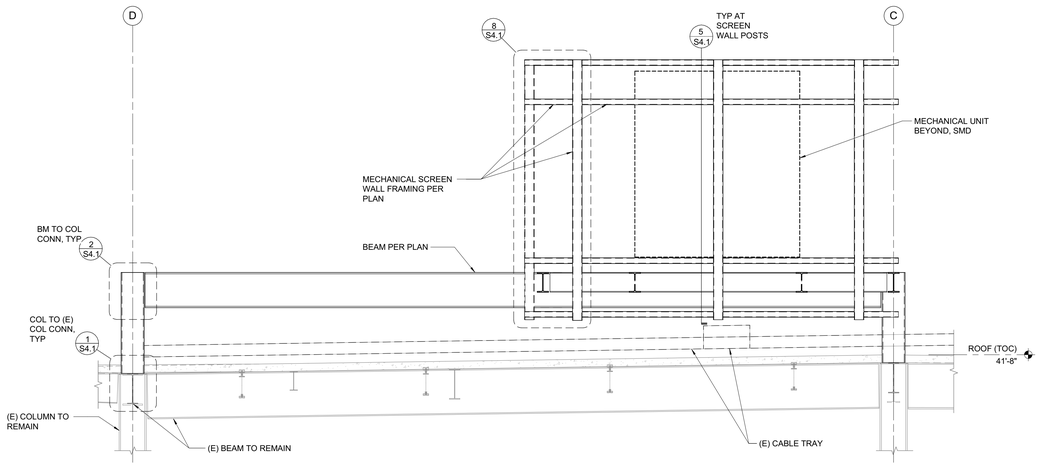
Drawing Title

PENTHOUSE ROOF FRAMING PLAN

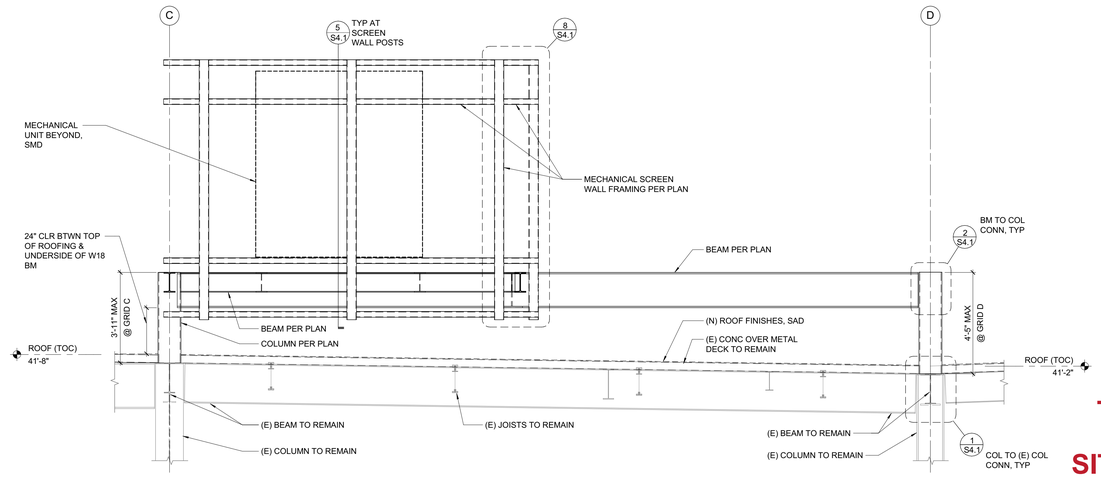
S2.3

Sheet

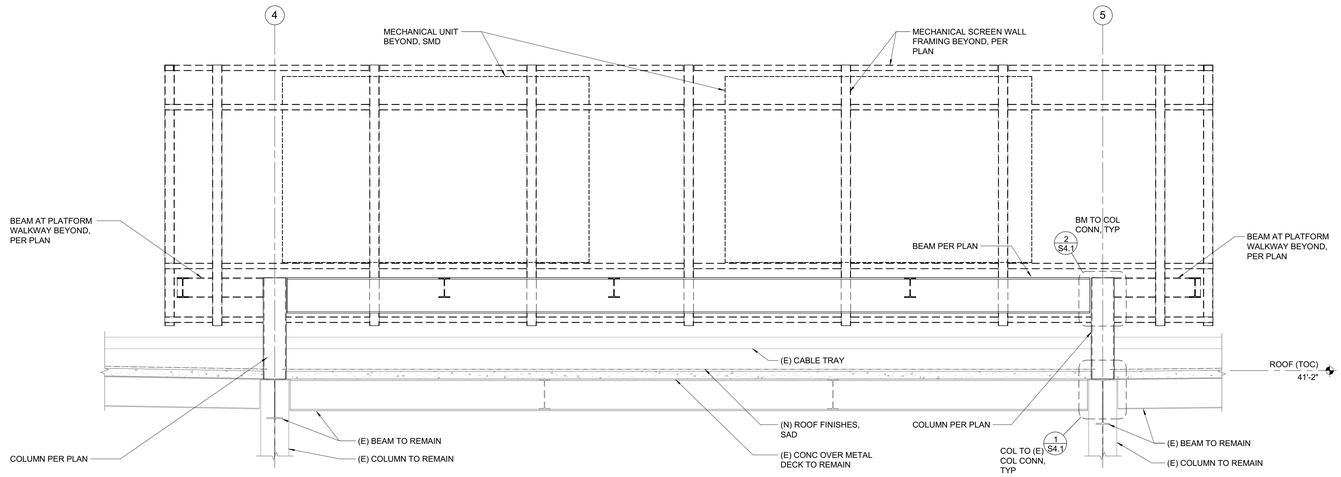
11/3/2021 5:15:54 PM



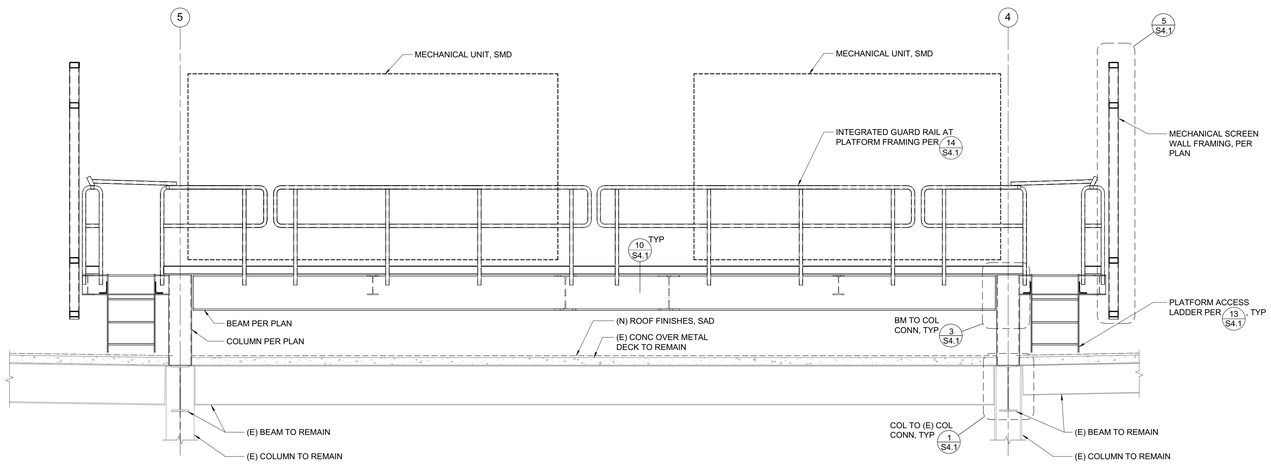
2 MECHANICAL PLATFORM FRAME ELEVATION - GRIDLINE 5
3/8" = 1'-0"



1 MECHANICAL PLATFORM FRAME ELEVATION - GRIDLINE 4
3/8" = 1'-0"



3 MECHANICAL PLATFORM FRAME ELEVATION - GRIDLINE D
3/8" = 1'-0"



4 MECHANICAL PLATFORM FRAME ELEVATION - GRID C
3/8" = 1'-0"

FRAME ELEVATION NOTES:

1. ELEVATIONS ARE SCHEMATIC. SEE PLANS FOR ADDITIONAL INFORMATION.
2. SEE PLANS FOR ALL COLUMN AND BEAM SIZES.
3. SAD FOR FRAMING HEIGHTS, BEAM SLOPES AND ALL DIMENSIONS.
4. ALL CONNECTIONS INDICATED ON ELEVATIONS ARE PART OF THE SFRS, ALL WELDS ARE DEMAND CRITICAL.

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zfa job no 19525 zfa.com

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April 20, 2022
SAN MATEO CO. BLDG. INSP. DIV.

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PLATFORM FRAME ELEVATIONS

S3.1

Sheet

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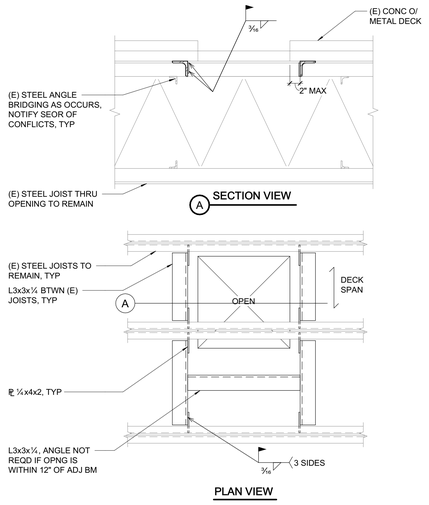
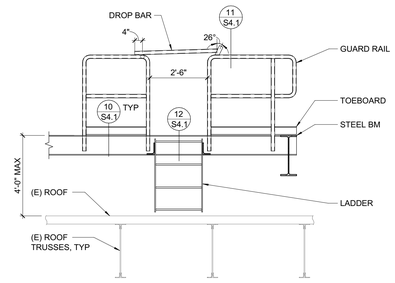
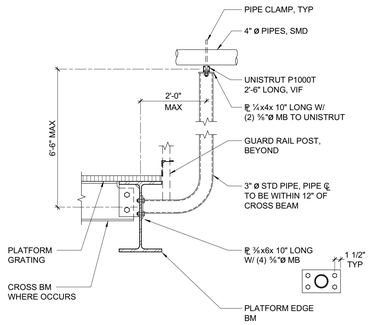


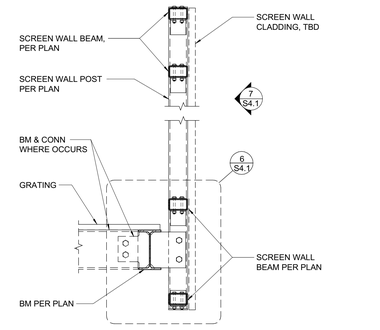
17 OPENING IN EXISTING CONCRETE OVER METAL DECK
1" = 1'-0"



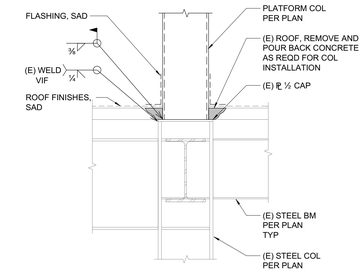
13 TYPICAL ELEVATION AT PLATFORM ACCESS LADDER
3/8" = 1'-0"



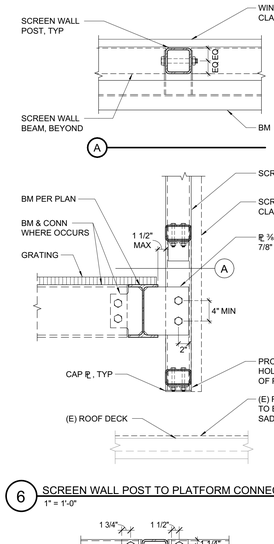
9 PIPE SUPPORT AT MECHANICAL PLATFORM
3/4" = 1'-0"



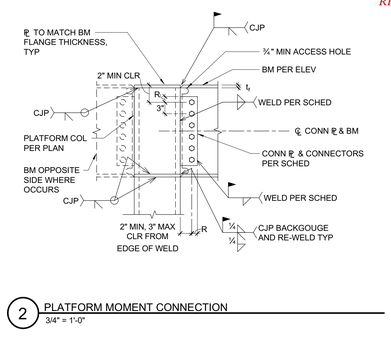
5 TYPICAL SECTION AT MECHANICAL SCREEN WALL
3/4" = 1'-0"



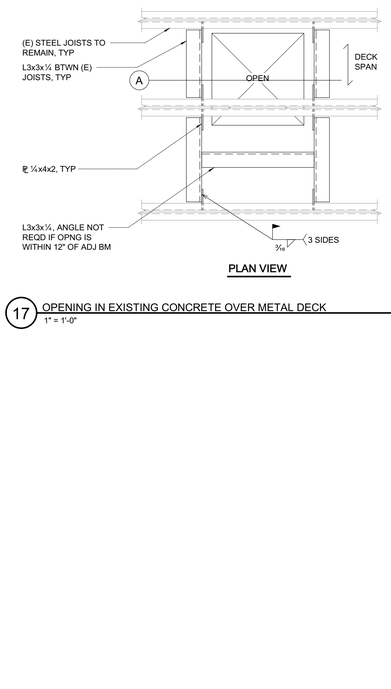
1 PLATFORM COLUMN TO EXISTING COLUMN CONNECTION
3/4" = 1'-0"



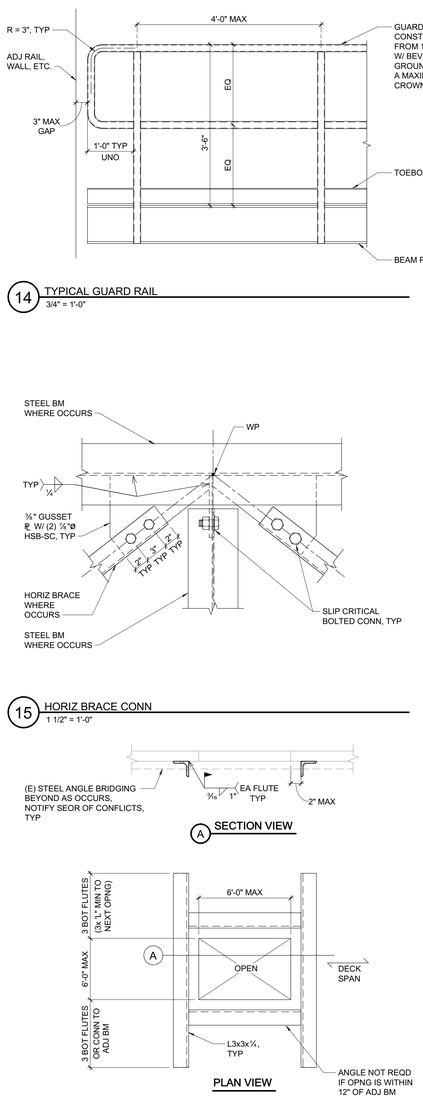
6 SCREEN WALL POST TO PLATFORM CONNECTION
1" = 1'-0"



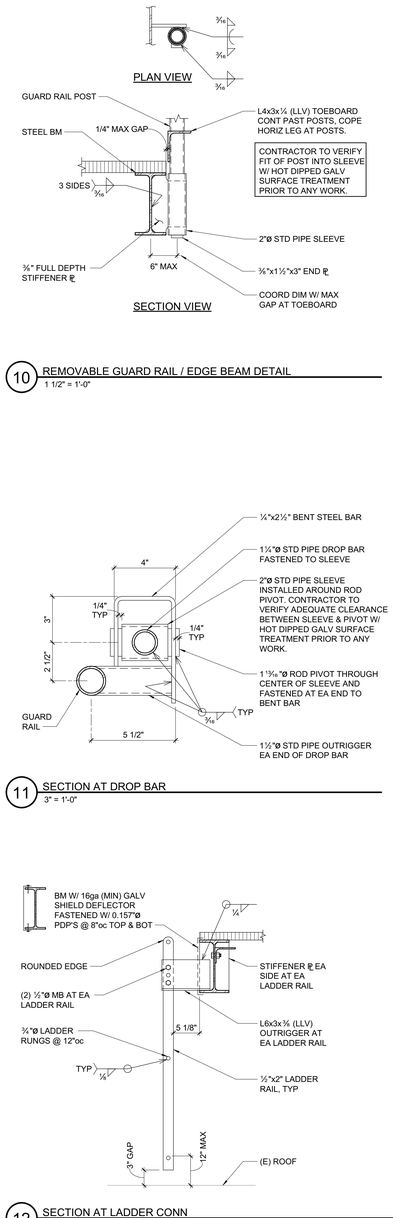
2 PLATFORM MOMENT CONNECTION
3/4" = 1'-0"



15 HORIZ BRACE CONN
1 1/2" = 1'-0"



14 TYPICAL GUARD RAIL
3/4" = 1'-0"



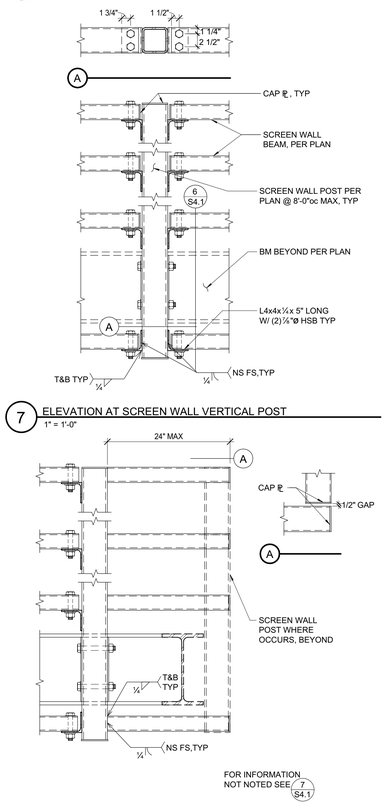
10 REMOVABLE GUARD RAIL / EDGE BEAM DETAIL
1 1/2" = 1'-0"

15 HORIZ BRACE CONN
1 1/2" = 1'-0"

11 SECTION AT DROP BAR
3" = 1'-0"

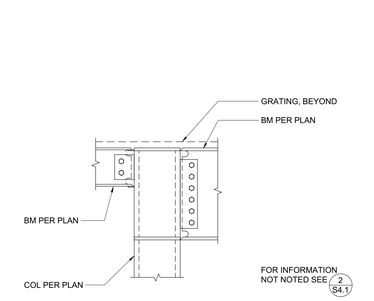
16 OPENING IN EXISTING METAL DECK
1" = 1'-0"

12 SECTION AT LADDER CONN
1" = 1'-0"

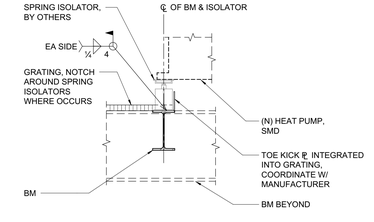


7 ELEVATION AT SCREEN WALL VERTICAL POST
1" = 1'-0"

8 ELEVATION AT SCREEN WALL VERTICAL POST
1" = 1'-0"



3 NON-FRAME MOMENT CONNECTION PLATFORM COLUMN
3/4" = 1'-0"



4 SPRING ISOLATOR CONNECTION TO PLATFORM FRAMING
3/4" = 1'-0"

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STEEL DETAILS

S4.1

Sheet

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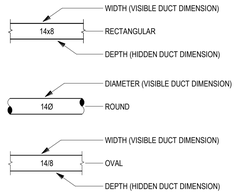
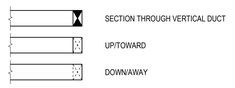
DUCT & DIFFUSERS

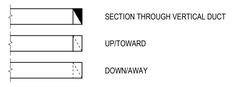
DUCT LABELING



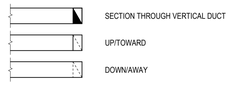
RECTANGULAR (SUPPLY)



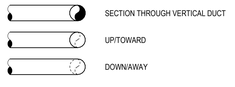
RECTANGULAR (RETURN)



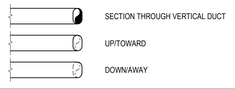
RECTANGULAR (EXHAUST)

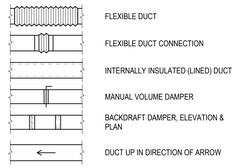


ROUND (SUPPLY/EXHAUST/RETURN)

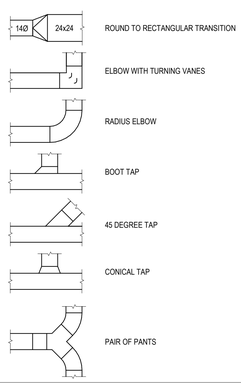


OVAL (SUPPLY/EXHAUST/RETURN)

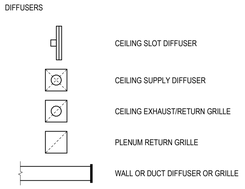




REPRESENTATIVE DUCT FITTINGS
(SEE SPECIFICATIONS FOR REQUIREMENTS)



DIFFUSERS



GENERAL

SENSORS

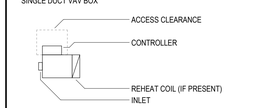
ELEVATION REFERENCE

T+9'10"	TOP OF DUCT, PIPE, GRILLE AT 9'10" AFF
T-EL+25'0"	TOP OF DUCT, PIPE, GRILLE AT 25'0" ABOVE 0'0" DATUM ELEVATION
B+9'10"	BOTTOM OF DUCT, PIPE, GRILLE AT 9'10" AFF
B-EL+25'0"	BOTTOM OF DUCT, PIPE, GRILLE AT 25'0" ABOVE REF ELEVATION
CL+9'10"	CENTER LINE OF DUCT, PIPE, GRILLE AT 9'10" ABOVE REF ELEVATION
CL-EL+25'0"	CENTER LINE OF DUCT, PIPE, GRILLE AT 25'0" ABOVE REF ELEVATION
[B+10'6"]	BOTTOM OF BEAM (STRUCTURE) AT THIS EXACT LOCATION
[W24X162 B+10'6"]	BOTTOM OF BEAM (STRUCTURE) ALONG LENGTH OF BEAM

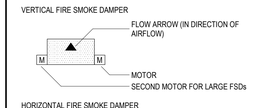
ELEVATIONS PROVIDED FOR REFERENCE ONLY - FINAL ELEVATIONS AND COORDINATION ARE THE RESPONSIBILITY OF THE CONTRACTOR

EQUIPMENT

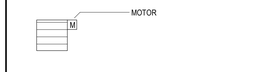
SINGLE DUCT VAV BOX



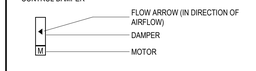
VERTICAL FIRE SMOKE DAMPER



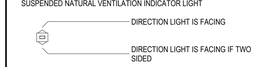
HORIZONTAL FIRE SMOKE DAMPER



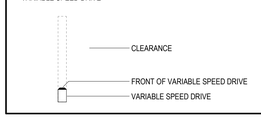
CONTROL DAMPER



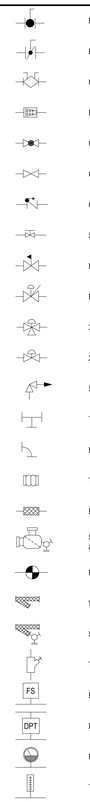
SUSPENDED NATURAL VENTILATION INDICATOR LIGHT



VARIABLE SPEED DRIVE

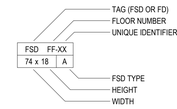


MECHANICAL PIPING

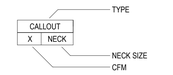


TAGS

FIRE SMOKE DAMPER & FIRE DAMPER



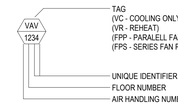
GRILLE OR DIFFUSER



SECTION MARK

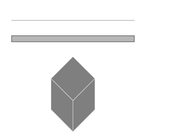
EQUIPMENT TAG

VAV BOX TAG

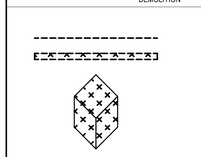


PHASING

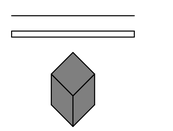
EXISTING



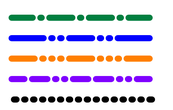
DEMOLITION



NEW CONSTRUCTION



FLOOR PLAN PHASE DESIGNATION



ABBREVIATIONS

ABBR.	DESCRIPTION
Ø	ROUND
Φ	PHASE
(E)	EXISTING
(N)	NEW
(R)	RELOCATED
ABBR.	ABBREVIATION
ABS	ABSOLUTE
AF	AIRFOIL
AFF	ABOVE FINISHED FLOOR
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP IN INCHES WATER COLUMN
B+	BOTTOM ELEVATION
BD	BELT DRIVE
BDD	BACK DRAFT DAMPER
BF	BOTTOM FLAT
BHP	BRAKE HORSEPOWER
BP	BEAM PENETRATION
C.A.	COMBUSTION AIR
CAP	CAPACITY
CAP STAGE	CAPACITY STAGES
C.A.P.	CEILING ACCESS PANEL
CARTR	CARTRIDGE
CENTR	CENTRIFUGAL
CFF	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CHOR	CHANGEOVER RETURN
CHOS	CHANGEOVER SUPPLY
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CL	CENTERLINE
CLG	CEILING
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COMP	COMPRESSOR
COP	COEFFICIENT OF PERFORMANCE
CCWR	CLOSED CONDENSER WATER RETURN
CCWS	CLOSED CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DD	DIRECT DRIVE
DEFL	DEFLECTION
DELTA P	DIFFERENTIAL PRESSURE
DI	DIGITAL INPUT
DL	DRAIN LINE
DO	DIGITAL OUTPUT
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER/TRANSDUCER
E.A.	EXHAUST AIR
E-PWR	EMERGENCY POWER
ECM	ELECTRICALLY COMMUTATED MOTOR
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATING
EFF	EFFICIENCY
ET	EXPANSION TANK
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
FAS	FIRE ALARM SYSTEM
FD	FIRE DAMPER
FF	FOULING FACTOR
FPI	FINS PER INCH
FPF	FINS PER FOOT
FPM	FEET PER MINUTE
FPP	FAN POWERED PARALLEL VAV BOX
FPS	FAN POWERED SERIES VAV BOX
FSD	FIRE SMOKE DAMPER
FT	FEET
FT2	SQUARE FEET
GPM	GALLONS PER MINUTE
H	HEIGHT
H.B.	HOSE BIB
HEAD	PRESSURE RISE IN FEET OF WATER COLUMN
HP	HORSEPOWER
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HS	HUMIDITY SENSOR
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
ID	INSIDE DIMENSION
IN	INCHES
IN WC	INCHES OF WATER COLUMN
IPLV	INTEGRATED PART LOAD VALUE
KBH	1,000 BTU/H
KW	KILOWATTS
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MANUF	MANUFACTURER
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MED	MEDIUM
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MIN	MINIMUM
MIN OA	MINIMUM OUTDOOR AIR CFM
MOD	MODULATING CAPACITY CONTROL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NPLV	NON-STANDARD PART LOAD VALUE
O.F.	OVER FLOW
O-PWR	OPTIONAL STANDBY POWER
OA	OUTSIDE AIR
OADB	OUTDOOR AIR DRY BULB TEMPERATURE
OAWB	OUTDOOR AIR WET BULB TEMPERATURE
OD	OUTSIDE DIMENSION
OCC	OCCUPIED
OP WT	OPERATING WEIGHT
P.O.C.	POINT OF CONNECTION
P.C.	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PRESS	PRESSURE
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH, ABSOLUTE
PSIG	POUNDS PER SQUARE INCH, GAUGE
QTY	QUANTITY
QTY@HxL	QUANTITY AT HEIGHT BY LENGTH
R.A.	RETURN AIR
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
REFR	REFRIGERANT
S.A.	SUPPLY AIR
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.M.	SHEET METAL
S-PWR	STANDBY POWER
SCT	SATURATED CONDENSING TEMPERATURE
SD	SMOKE DETECTOR
SENS	SENSIBLE
SST	SATURATED SUCTION TEMPERATURE
ST	STORAGE TANK
T+	TOP ELEVATION
TF	TOP FLAT
TS	TEMPERATURE SENSOR
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VC	VARIABLE VOLUME COOLING ONLY
VR	VARIABLE VOLUME REHEAT
W	WIDTH
W/	WITH
W.A.P.	WALL ACCESS PANEL
WPD	WATER PRESSURE DROP IN FEET WATER COLUMN

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REGISTERED PROFESSIONAL ENGINEER GLENN FRIEDMAN EXP. 08/31/22 MECHANICAL

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

Apr 30 2022

SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

Issue

Rev	Date	Description
	11/5/2021	Permit Submittal
	9/06/2022	Issued for Bid

Drawn By	AW/LVR
Checked By	GAF
Job. No.	1919
Scale	NO SCALE

Drawing Title

HVAC LEGENDS AND ABBREVIATIONS

M0.01

Sheet

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AIR-TO-WATER HEAT PUMPS

TAG	MANUFACTURER & MODEL NO	COMP TYPE / QTY	NOM TONS	REFRIGERANT TYPE	REFRIGERANT WEIGHT	COOLING GPM	COOLING EWT	COOLING LWT	COOLING TONS	COOLING WPD	COOLING FF	COOLING OADB	COOLING KW	COOLING EER	COOLING AHRI EER	HEATING GPM	HEATING EWT	HEATING LWT	HEATING KBH	HEATING WPD	HEATING FF	HEATING OADB	HEATING KW	HEATING COP	HEATING AHRI COP@47	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL V/Φ	OP WT (LBS)	ACCESSORIES	REMARKS
AWHP 1	AERMEC NRB0900*H*A*J700	SCROLL 4	66	410A	172	110	58	45	60	3'	0.0001	90	74	9.7	10.4	110	110	120	550	3	0.0001	26	93	1.7	2.6	139	169	460/3	8800	COATED CONDENSER COIL FOR SALT CORROSION, HYDRONIC KIT WITH TACO 2009D PRIMARY PUMPS SIZED FOR 90 GPM AND 30 FT HEAD, BACNET INTERFACE	2-PIPE CHANGEOVER, VIBRATION ISOLATION PER SHEET M4.01, CONTROLS PER BAS001
AWHR 2	AERMEC NRP NRP0500A4*170000	SCROLL 4	58	410A	273	110	58	45	60	6'	0.0001	90	71	10.1	9.6	110	110	120	550	6	0.0001	26	93	1.7	2.8	148	178	460/3	8300	COATED CONDENSER COIL FOR SALT CORROSION, HYDRONIC KIT WITH TACO 2009D PRIMARY PUMPS SIZED FOR 90 GPM AND 30 FT HEAD, BACNET INTERFACE 1	4-PIPE HEAT RECOVERY, VIBRATION ISOLATION PER SHEET M4.01, CONTROLS PER BAS001

AIR HANDLING UNIT CHILLED WATER COIL

TAG	MANUFACTURER & MODEL NO	COIL BANK CFM / COIL	COIL BANK FPM	COIL BANK HxL / COIL	COOLING COIL EDB / EWB	COOLING COIL LDB / LWB	COOLING COIL APD	COOLING COIL EWT	COOLING COIL LWT	COOLING COIL GPM / COIL	COOLING COIL WPD (FT)	COOLING COIL CKTS	COOLING COIL ROWS / FPI	COOLING COIL TUBE THICK	COOLING COIL CAP (KBTUH) TOTAL	COOLING COIL CAP (KBTUH) SENS	OP WT (LBS) / COIL	ACCESSORIES	REMARKS
CC 1, CC 2, CC 3, CC 4	GREENHECK CWS8S08S08-90X39-RH	11,250	460	39 X 90	81 / 63	51 / 51	0.6	45	60	45	10	20	8 / 8	0.035	334	308	884 1	COIL, FINS, AND CASING SHALL BE EITHER 304 STAINLESS STEEL OR EPOXY OR PHENOLIC COATED	MATCH (E) COIL DIMENSIONS REPLACE CONDENSATE PANS WITH 16-GAUGE 304 STAINLESS OR EPOXY COATED STEEL DRAIN PAN

PUMP

TAG	MANUFACTURER & MODEL NO	SERVING	TYPE	GPM	HEAD	RPM	INLET PSIG	ELECTRICAL BHP	ELECTRICAL HP	ELECTRICAL V/Φ	ELECTRICAL VFD-ECM	OP WT (LBS)	ACCESSORIES	REMARKS
HWP 1	B&G E-1531 2BD	SECONDARY HEATING HOT WATER	CLOSE COUPLED END SUCTION	150	50	1750	10	2.62	5	460/3	-	300	GAUGE TAPS SUCTION DIFFUSER	CONTROLS PER SHEET BAS 001

MISCELLANEOUS EQUIPMENT

TAG	MANUFACTURER & MODEL NO	SERVING	DESCRIPTION	CAPACITY	DESIGN CONDITIONS	OP WT (LBS)	ACCESSORIES	REMARKS
BT H	CEMLINE 400SEB-3F-SL-42X78	HOT WATER	2-PORT BUFFER TANK	400 GALLONS	-	4400		ASME CONSTRUCTION
BT C	CEMLINE V620CWB-4F-SL-10-I-54X72	CHILLED WATER	2-PORT BUFFER TANK	600 GALLONS	-	7100		ASME CONSTRUCTION
ET H	WESSELS NLAP-100	HOT WATER	EXPANSION TANK	22 GALLON 16 GALLON ACCEPTANCE	12 PSIG PRECHARGE 70 PSIG RELIEF	300	VERTICAL WITH BASE RING, REPLACEABLE BLADDER	ASME CONSTRUCTION
ET C	WESSELS NLAP-40	CHILLED WATER	EXPANSION TANK	6 GALLON 4 GALLON ACCEPTANCE	12 PSIG PRECHARGE 70 PSIG RELIEF	150	VERTICAL WITH BASE RING, REPLACEABLE BLADDER	ASME CONSTRUCTION
F 1	CAMFIL AP-THIRTEEN	SF-1	FILTER	36 FILTERS	24"x24"x2" PLEAT MERV-A 13	-	PROVIDE 7 FILTER CHANGES	EXISTING FILTER RACK SHALL REMAIN
F 2	AIR HANDLER 68D875	SF-1	OUTDOOR AIR FILTER	12 FILTERS	24"x24"x2" PLEAT CARBON	-	PROVIDE 2 FILTER CHANGES	EXISTING FILTER RACK SHALL REMAIN

TEMPERATURE CONTROL PANELS

TAG	SERVING	DESCRIPTION	ELECTRICAL PWR	ELECTRICAL V/Φ	OP WT (LBS)	ACCESSORIES	REMARKS
TCP 1 TO TCP 3	ZONE LEVEL TERMINAL UNITS	CONTROL PANEL	20A	120/1	45		SEE SPECS 250000
TCP 4	PENTHOUSE AND ROOF HVAC	CONTROL PANEL	20A	120/1	45		(E) TCP MAY BE REUSED AT THE CONTRACTOR'S OPTION SEE SPECS 250000

SPLIT SYSTEM INDOOR FAN COILS (NOT IN SCOPE)

TAG	MANUFACTURER & MODEL NUMBER	SERVING	SUPPLY FAN CFM	SUPPLY FAN EXT SP	SUPPLY FAN WATT	CLG CAP (KBTUH)	HTG CAP (KBTUH)	ELECTRICAL HP	ELECTRICAL V/φ	REFR TYPE	DBA	OP WT (LBS)	ACCESSORIES	REMARKS
(E) FC-1-1 & FC-1-2	TRANE TWE048C14	EPA POLICE	1400/1300	0.5	-	46.1	30.8	1/2	208/1	R-22	-	165	-	EXISTING FCU SHALL REMAIN
(E) FC-1-3 & FC-1-4	TRANE TWE060C15	COUNCIL CHAMBERS AND COMMUNITY ROOMS	1500	0.5	-	59.5	42.7	3/4	208/1	R-22	-	200	-	EXISTING FCU SHALL REMAIN
(E) FC-1-5		EPA POLICE IT CLOSET											-	EXISTING FCU SHALL REMAIN
(E) FC-1-6		3RD FLOOR SERVER ROOM											-	EXISTING FCU SHALL REMAIN

SPLIT SYSTEM OUTDOOR CONDENSING UNITS (NOT IN SCOPE)

TAG	MANUFACTURER & MODEL NUMBER	SERVING	NOM CLG CAP (KBTUH)	NOM HTG CAP (KBTUH)	COMPRESSOR QTY	COMPRESSOR RLA	CONDENSER QTY	CONDENSER FLA	ELECTRICAL MCA	ELECTRICAL V/φ	SEER	REFR TYPE	OP WT (LBS)	ACCESSORIES	REMARKS
(E) CU-1-1, CU-1-2, CU1-5	TRANE TWA04803	FCU-1-1, FCU-1-2, FCU1-5	48	30.8	1	14	1	1.9	19	208/230	10.65	R-22	240	-	EXISTING CONDENSING UNIT SHALL REMAIN
(E) CU-1-3, CU-1-4	TRANE TWA04803	FCU-1-3, FCU-1-4	60	42.7	1	18.3	1	1.9	25	208/230	10.4	R-22	395	-	EXISTING CONDENSING UNIT SHALL REMAIN
(E) CU-1-6		FCU-1-6	-	-	1	-	1	-	-	-	-	-	-	-	EXISTING CONDENSING UNIT SHALL REMAIN

SOUND TRAP

TAG	MANUFACTURER & MODEL NO	SERVING	CFM	WxHxL (IN.)	PRESS. DROP TRAP	PRESS. DROP INST'D	INSERTION LOSS (dB) 63	125	250	500	1000	2000	4000	8000	REMARKS
ST 1	PRICE INDUSTRIES RM36	RF-1	32,720	66X66X36	0.19	--	7	11	16	21	16	12	10	8	-

FANS

TAG	MANUFACTURER & MODEL NO	SERVING	TYPE	DRIVE	CFM	ESP	RPM	SONES	ELECTRICAL BHP	ELECTRICAL HP	ELECTRICAL V/Φ	ELECTRICAL VFD/ECM	OP WT (LBS)	ACCESSORIES	REMARKS
(E) SF -	ILG INDUSTRIES 74-48	AHU SUPPLY AIR	UTILITY SET	BELT	45,000	(E)	(E)	(E)	(E)	50	460/3	VFD	(E)		REFURBISH (E) FAN PER SPEC 233400 CONTROLS PER SHEET BAS002 DETAIL 1
RF 1	GREENHECK GB-540	RELIEF AIR	DOWNBLAST ROOF EXHAUSTER	BELT	32,720	1"	472	31	13.38	15	460/3	VFD	555	CURB	CONTROLS PER SHEET BAS002 DETAIL 1
EF 3	GREENHECK G-060-VG	1ST FLOOR TOILET RM - COUNCIL CHAMBERS	DOWNBLAST ROOF EXHAUSTER	DIRECT	75	3/8"	1639	3.9	0.02	1/15	120/1	ECM	19	BACK DRAFT DAMPER, CURB	CONTROLS PER SHEET BAS002 DETAIL 7
EF 4	GREENHECK G-130-VG	3RD FLOOR TOILET RM	DOWNBLAST ROOF EXHAUSTER	DIRECT	875	1/2"	1003	7	0.11	1/4	120/1	ECM	44	BACK DRAFT DAMPER, CURB	CONTROLS PER SHEET BAS002 DETAIL 6
EF 5	GREENHECK G-120-VG	2ND FLOOR TOILET RM	DOWNBLAST ROOF EXHAUSTER	DIRECT	845	1/2"	1062	7.1	0.11	1/4	120/1	ECM	43	BACK DRAFT DAMPER, CURB	CONTROLS PER SHEET BAS002 DETAIL 6
EF 6	GREENHECK G-095-VG	1ST FLOOR	DOWNBLAST ROOF EXHAUSTER	DIRECT	725	1/2"	1647	9.8	0.14	1/6	120/1	ECM	29	BACK DRAFT DAMPER, CURB	CONTROLS PER SHEET BAS002 DETAIL 6
EF 7	GREENHECK G-060-VG	1ST FLOOR TOILET RM LIBRARY	DOWNBLAST ROOF EXHAUSTER	DIRECT	75	3/8"	1639	3.9	0.02	1/15	120/1	ECM	19	BACK DRAFT DAMPER, CURB	CONTROLS PER SHEET BAS002 DETAIL 6
EF 8	GREENHECK G-090-VG	1ST FLOOR	DOWNBLAST ROOF EXHAUSTER	DIRECT	425	3/8"	1363	6	0.05	1/10	120/1	ECM	29	BACK DRAFT DAMPER, CURB	CONTROLS PER SHEET BAS002 DETAIL 7

FIELD-MOUNTED VARIABLE SPEED DRIVES

EQUIPMENT SERVED	MANUFACTURER & MODEL NO	ELECTRICAL HP	ELECTRICAL V/Φ	ACCESSORIES DISCONNECT SWITCH	ACCESSORIES BYPASS STARTER	ACCESSORIES REDUNDANT VFD	ENCLOSURE NEMA 1	ENCLOSURE NEMA 3R	ENCLOSURE NEMA 4X	ENCLOSURE NEMA 12	REMARKS
VFD SF-1	ABB ACH-580	SEE FAN SCHEDULE		YES	NO	NO	X				-
VFD RF-1	ABB ACH-580	SEE FAN SCHEDULE		YES	NO	NO	X				-

FIRE DAMPERS

TAG	MANUFACTURER	MODEL	SERVING	WIDTH	HEIGHT	FIRE RATING	RELEASE TEMP	REMARKS
FD 1-1	GREENHECK	DFD-150X STYLE A	LOW VELOCITY	10	10	1.5 HR	165°F	INTEGRAL SLEEVE, NEW
FD 2-1	GREENHECK	DFD-150X STYLE A	LOW VELOCITY	60	18	1.5 HR	165°F	INTEGRAL SLEEVE, NEW
FD 2-2	GREENHECK	DFD-150X STYLE B	MEDIUM VELOCITY	14	14	1.5 HR	165°F	INTEGRAL SLEEVE, DIMENSIONS IN FSD SCHEDULE ARE DUCT INSIDE DIMENSIONS AND DO NOT INCLUDE DAMPER, NEW
FD 3-1	GREENHECK	DFD-150X STYLE A	LOW VELOCITY	60	18	1.5 HR	165°F	INTEGRAL SLEEVE, NEW
(E) FD -	(E)	(E)	(E)	60	18	(E)	(E)	TYPICAL OF 12

CONTROL DAMPERS

TAG	TAG ID	TYPE	SERVING	MANUFACTURER & MODEL NO	WIDTH	HEIGHT	BLADE ACTION	ACTUATOR	EST # OF ACTUATORS	END SWITCHES	NORMAL POSITION	FAIL POSITION	REMARKS
CD	1	A	OUTDOOR AIR	RUSKIN CD-36	70"	96	PARALLEL	ANALOG	4	NO	CLOSED	LAST	STAINLESS OR EPOXY COATED, DIRECT COUPLED ACTUATOR PER SPEC 250000. MATCH (E) DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY DAMPER DIMENSIONS PRIOR TO INSTALLATION
CD	2	A	RETURN AIR	RUSKIN CD-36	150"	26"	PARALLEL	ANALOG	2	NO	OPEN	LAST	DIRECT COUPLED ACTUATOR PER SPEC 250000. MATCH (E) DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY DAMPER DIMENSIONS PRIOR TO INSTALLATION
CD	3	A	RELIEF AIR	RUSKIN CD-36	66"	66"	PARALLEL	ANALOG	2	NO	OPEN	LAST	DIRECT COUPLED ACTUATOR PER SPEC 250000. MATCH (E) DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY DAMPER DIMENSIONS PRIOR TO INSTALLATION

PLUMBING WATER HEATER SCHEDULE

TYPE	EQUIPMENT NUMBER	DESCRIPTION	SERVICE	LOCATION	MANUFACTURER	MODEL	TYPE	FACTORY RESET TEMP (F)	STORAGE CAPACITY (GALLONS)	RECOVERY RISE (GPH)	ELECTRICAL BREAKER SIZE	ELECTRICAL VOLT	ELECTRICAL PHASE	ELECTRICAL WATTS	REMARKS
EWH	1	HYBRID ELECTRIC WATER HEATER	TOILET ROOMS	PENTHOUSE MECH. ROOM	RHEEM	PROPH80 T2 RH375-SO	STORAGE	120	72	27 @ 90° F	30	240	1	4500	

PLUMBING PUMP SCHEDULE

TYPE	EQUIPMENT NUMBER	DESCRIPTION	SERVICE	LOCATION	MANUFACTURER	MODEL	PUMP FLOW (GPM)	PUMP DESIGN FLOW [GPM]	PUMP HEAD (FT)	ELECTRICAL POWER (HP)	ELECTRICAL VOLT	ELECTRICAL PHASE	REMARKS
HWCP	1	HOT WATER RECIRCULATION PUMP	DOMESTIC HOT WATER SYSTEM	ROOF PENTHOUSE	BEEL & GOSSETT	36-45	30	6	20	0.142	115	1	REPLACE THIS PUMP AT THE SAME LOCATION OF EXISTING PUMP

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REGISTERED PROFESSIONAL ENGINEER GLENN FRIEDMAN EXP. 08/31/22 CIVIL CALIFORNIA

REVIEWED FOR CODE COMPLIANCE
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Apr 30 2022
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

Issue

Rev	Date	Description
	11/05/2021	Permit Submittal
1	02/04/2022	Permit Revisions
	9/06/2022	Issued for Bid

Drawn By AW/LVR
Checked By GAF
Job. No. 1919
Scale NO SCALE

Drawing Title
HVAC AND PLUMBING SCHEDULES

M0.02

Sheet

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VAV BOXES

TAG	MANUF AND MODEL NO.	INLET SIZE	DESIGN CFM			MIN OA		TOTAL ΔPD	NC	OCCUPIED STANDBY	CO2 CONTROL	TSTAT TYPE	HEATING COIL										WEIGHT	REMARKS
			COOL	MIN	HEAT	AREA	OCCUPANCY						ROW	CFM	EAT	LAT	GPM	EWT	LWT	KBH	CNTRL VLV TYPE	CV		
VR-1101	PRICE SDV	14	1405	AUTO	645	40	30	0.3"	<31	Y	-	3C	2	645	54.0	94.7	4.50	120	107	28.5	2-WAY	3.2	47	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1102	PRICE SDV	16	2120	AUTO	1015	155	105	0.3"	<31	Y	-	3C	2	1015	54.0	89.8	3.50	120	97	39.4	2-WAY	2.5	55	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1103	PRICE SDV	6	255	AUTO	30	30	15	0.3"	<31	Y	-	3C	2	30	54.0	70.1	0.10	120	74	0.5	2-WAY	1.0	20	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1104	PRICE SDV	8	415	AUTO	45	40	45	0.3"	<31	Y	-	3C	2	45	54.0	70.1	0.10	120	70	0.8	2-WAY	1.0	23	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1105	PRICE SDV	10	795	AUTO	395	80	60	0.3"	<31	Y	-	3C	2	395	54.0	94.6	3.60	120	110	17.4	2-WAY	2.5	29	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1108	PRICE SDV	16	1950	AUTO	905	65	45	0.3"	<31	Y	-	3C	2	905	54.0	89.8	2.90	120	95	35.2	2-WAY	2.1	55.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1109	PRICE SDV	12	945	AUTO	105	105	75	0.3"	<31	Y	-	3C	2	105	54.0	70.1	0.10	120	69	1.8	2-WAY	1.0	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1111	PRICE SDV	14	1385	AUTO	480	240	480	0.3"	<31	Y	-	3A	2	480	54.0	70.5	0.40	120	75	8.6	2-WAY	1.0	47.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1112	PRICE SDV	14	1505	AUTO	240	235	240	0.3"	<31	Y	-	3A	2	240	54.0	70.2	0.20	120	72	4.2	2-WAY	1.0	47.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1116	PRICE SDV	16	2130	AUTO	290	220	1410	0.3"	<31	Y	Y	3CC	2	2130	55.0	69.9	1.70	120	78	34.5	2-WAY	1.2	55.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1117	PRICE SDV	24x16	2420	AUTO	1125	220	1095	0.3"	<31	Y	Y	3CC	2	1125	54.0	89.8	4.10	120	98	43.7	2-WAY	2.9	92.0	
VR-1201	PRICE SDV	14	1600	AUTO	650	100	240	0.3"	<31	Y	-	3C	2	650	54.0	94.8	4.60	120	107	28.8	2-WAY	3.3	47.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1202	PRICE SDV	12	1025	AUTO	425	105	75	0.3"	<31	Y	-	3C	2	425	54.0	89.6	1.50	120	97	16.4	2-WAY	1.1	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1203	PRICE SDV	10	745	AUTO	85	85	60	0.3"	<31	Y	-	3C	2	85	54.0	70.1	0.10	120	69	1.5	2-WAY	1.0	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1204	PRICE SDV	6	330	AUTO	35	35	30	0.3"	<31	Y	-	3C	2	35	54.0	70.2	0.10	120	72	0.6	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1205	PRICE SDV	8	505	AUTO	215	25	15	0.3"	<31	Y	-	3C	2	215	54.0	89.5	0.80	120	98	8.3	2-WAY	1.0	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1207	PRICE SDV	10	730	AUTO	305	40	30	0.3"	<31	Y	-	3C	2	305	54.0	89.6	1.20	120	98	11.8	2-WAY	1.0	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1209	PRICE SDV	14	1660	AUTO	185	185	120	0.3"	<31	Y	-	3C	2	185	54.0	70.2	0.20	120	71	3.2	2-WAY	1.0	47.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1210	PRICE SDV	12	1205	AUTO	355	355	180	0.3"	<31	Y	-	3A	2	355	54.0	77.2	0.50	120	84	8.9	2-WAY	1.0	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1212	PRICE SDV	12	1180	AUTO	515	35	30	0.3"	<31	Y	-	3C	2	515	54.0	94.6	3.50	120	107	22.7	2-WAY	2.5	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1213	PRICE SDV	10	560	AUTO	280	35	30	0.3"	<31	Y	-	3C	2	280	54.0	94.7	2.50	120	110	12.4	2-WAY	1.8	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1214	PRICE SDV	14	1030	AUTO	515	35	180	0.3"	<31	Y	Y	3CC	2	515	54.0	94.6	3.50	120	107	22.7	2-WAY	2.5	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1215	PRICE SDV	24x16	2315	AUTO	1015	190	135	0.3"	<31	Y	-	3C	2	1015	54.0	89.7	3.50	120	96	39.4	2-WAY	2.5	92.0	
VR-1216	PRICE SDV	24x16	2585	AUTO	290	290	195	0.3"	<31	Y	-	3C	2	290	54.0	70.2	0.30	120	71	5.1	2-WAY	1.0	92.0	
VR-1217	PRICE SDV	6	310	AUTO	35	35	30	0.3"	<31	Y	-	3C	2	35	54.0	70.2	0.10	120	72	0.6	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1218	PRICE SDV	8	360	AUTO	160	20	30	0.3"	<31	Y	-	3C	2	160	54.0	89.8	0.60	120	95	6.2	2-WAY	1.0	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1219	PRICE SDV	6	210	AUTO	45	40	45	0.3"	<31	Y	-	3C	2	45	54.0	70.1	0.10	120	70	0.8	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1220	PRICE SDV	6	320	AUTO	155	15	15	0.3"	<31	Y	-	3C	2	155	54.0	94.2	1.00	120	106	6.8	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1222	PRICE SDV	16	1945	AUTO	210	210	135	0.3"	<31	Y	-	3C	2	210	54.0	70.2	0.20	120	70	3.7	2-WAY	1.0	55.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1223	PRICE SDV	10	640	AUTO	265	70	45	0.3"	<31	Y	-	3C	2	265	54.0	94.5	1.50	120	103	11.6	2-WAY	1.1	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1224	PRICE SDV	6	120	AUTO	50	25	15	0.3"	<31	Y	-	3C	2	50	54.0	88.4	0.20	120	86	1.9	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1225	PRICE SDV	8	405	AUTO	45	45	30	0.3"	<31	Y	-	3C	2	45	54.0	70.1	0.10	120	70	0.8	2-WAY	1.0	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1226	PRICE SDV	8	515	AUTO	230	120	75	0.3"	<31	Y	-	3C	2	230	54.0	94.6	1.60	120	106	10.1	2-WAY	1.1	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1301	PRICE SDV	12	1095	AUTO	460	55	30	0.3"	<31	Y	-	3C	2	460	54.0	94.7	2.80	120	105	20.3	2-WAY	2.0	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1302	PRICE SDV	8	530	AUTO	265	15	15	0.3"	<31	Y	-	3C	2	265	54.0	94.4	2.10	120	108	11.6	2-WAY	1.5	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1303	PRICE SDV	10	700	AUTO	300	40	30	0.3"	<31	Y	-	3C	2	300	54.0	89.5	1.10	120	98	11.6	2-WAY	1.0	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1304	PRICE SDV	6	205	AUTO	60	25	60	0.3"	<31	Y	-	3C	2	60	54.0	75.2	0.10	120	77	1.4	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1305	PRICE SDV	8	375	AUTO	40	40	150	0.3"	<31	Y	Y	3CC	2	375	55.0	69.9	0.30	120	78	6.1	2-WAY	1.0	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1306	PRICE SDV	8	485	AUTO	135	130	135	0.3"	<31	Y	-	3C	2	135	54.0	81.8	0.30	120	84	4.1	2-WAY	1.0	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1307	PRICE SDV	8	505	AUTO	150	25	60	0.3"	<31	Y	-	3C	2	150	54.0	89.2	0.50	120	93	5.7	2-WAY	1.0	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1308	PRICE SDV	12	1310	AUTO	115	115	570	0.3"	<31	Y	Y	3CC	2	1310	55.0	69.9	1.20	120	81	21.2	2-WAY	1.0	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1309	PRICE SDV	14	1350	AUTO	580	65	45	0.3"	<31	Y	-	3C	2	580	54.0	89.7	2.10	120	98	22.5	2-WAY	1.5	47.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1311	PRICE SDV	6	85	AUTO	40	15	15	0.3"	<31	Y	-	3C	2	40	54.0	93.0	0.20	120	89	1.7	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1312	PRICE SDV	8	530	AUTO	265	15	15	0.3"	<31	Y	-	3C	2	265	54.0	94.5	2.10	120	109	11.7	2-WAY	1.5	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1313	PRICE SDV	10	640	AUTO	170	170	165	0.3"	<31	Y	-	3C	2	170	54.0	82.2	0.30	120	84	5.2	2-WAY	1.0	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1314	PRICE SDV	12	1145	AUTO	485	35	30	0.3"	<31	Y	-	3C	2	485	54.0	94.8	3.10	120	106	21.4	2-WAY	2.2	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1315	PRICE SDV	8	365	AUTO	265	20	15	0.3"	<31	Y	-	3C	2	265	54.0	94.4	2.10	120	108	11.6	2-WAY	1.5	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1316	PRICE SDV	10	790	AUTO	485	20	15	0.3"	<31	Y	-	3C	2	485	54.0	94.6	7.90	120	114	21.4	2-WAY	5.6	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1317	PRICE SDV	6	285	AUTO	45	45	30	0.3"	<31	Y	-	3C	2	45	54.0	83.0	0.10	120	80	1.4	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1318	PRICE SDV	12	1120	AUTO	560	65	45	0.3"	<31	Y	-	3C	2	560	54.0	89.8	2.30	120	101	21.7	2-WAY	1.6	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1319	PRICE SDV	10	910	AUTO	435	50	120	0.3"	<31	Y	-	3C	2	435	54.0	89.8	2.20	120	104	16.9	2-WAY	1.6	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1320	PRICE SDV	10	720	AUTO	360	25	15	0.3"	<31	Y	-	3C	2	360	54.0	94.6	2.80	120	108	15.9	2-WAY	2.0	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1321	PRICE SDV	6	330	AUTO	165	20	15	0.3"	<31	Y	-	3C	2	165	54.0	94.1	1.10	120	106	7.2	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1322	PRICE SDV	10	645	AUTO	105	105	75	0.3"	<31	Y	-	3C	2	105	54.0	82.5	0.20	120	81	3.2	2-WAY	1.0	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1323	PRICE SDV	12	1115	AUTO	185	185	120	0.3"	<31	Y	-	3C	2	185	54.0	82.3	0.40	120	82	5.7	2-WAY	1.0	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1324	PRICE SDV	6	115	AUTO	50	20	15	0.3"	<31	Y	-	3C	2	50	54.0	88.4	0.20	120	86	1.9	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1325	PRICE SDV	12	1220	AUTO	200	200	135	0.3"	<31	Y	-	3C	2	200	54.0	82.5	0.40	120	83	6.2	2-WAY	1.0	36.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1326	PRICE SDV	8	370	AUTO	185	30	15	0.3"	<31	Y	-	3C	2	185	54.0	94.7	1.00	120	103	8.2	2-WAY	1.0	23.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1329	PRICE SDV	10	790	AUTO	385	55	30	0.3"	<31	Y	-	3C	2	385	54.0	94.7	3.40	120	110	17.0	2-WAY	2.4	29.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1330	PRICE SDV	14	1665	AUTO	275	275	180	0.3"	<31	Y	-	3C	2	275	54.0	82.4	0.50	120	83	8.5	2-WAY	1.0	47.0	HSG – OVERSIZED COIL, ACCESS DOOR
VR-1331	PRICE SDV	6	215	AUTO	35	35	30	0.3"	<31	Y	-	3C	2	35	54.0	83.1	0.10	120	78	1.1	2-WAY	1.0	20.0	HSG – OVERSIZED COIL, ACCESS DOOR

FAN-POWERED BOXES

MARK	MANUF AND MODEL NO.	INLET SIZE	DESIGN CFM		MIN OA		TOTAL ΔP	NC	CO2 CONTROL	TSTAT TYPE	HEATING COIL										FAN		ELECTRICAL					WEIGHT (LBS)	REMARKS
			COOL	MIN	AREA	OCCUPANCY					ROW	CFM	EAT	LAT	GPM	EWT	LWT	KBH	CNTRL VLV TYPE	CV	CFM	ESP	FLA	MCA	MOP	HP	V/Φ		
FPS-1106	PRICE FDC-5012	12"	1480	AUTO	260	240	1.25"	28	NO	3A	2	1480	69	95.2	5.17	120	103.6	42.0	2-WAY	3.7	1480	1.25	12	15	25	1	115/1	150	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 5
FPP-1110	PRICE FDVS-5012	12"	1990	AUTO	175	345	0.75"	29	NO	3A	2	1990	70.0	89.3	10.96	120	110	56.6	2-WAY	7.7	1990	1.25	12.6	15.9	25.0	1	115/1	156	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1113	PRICE FDVS-5012	12"	1995	AUTO	105	210	0.75"	30	NO	3A	2	1995	68.0	83.6	14.24	120	111	62.0	2-WAY	10.1	1995	1.25	12.6	15.8	25.0	1	115/1	156	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1206	PRICE FDVS-2008	8"	535	AUTO	70	45	0.75"	22	NO	3C	2	535	70.0	89.3	2.74	120	110	14.0	2-WAY	1.9	535	1.25	3.9	4.9	15	1/3	115/1	89	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1208	PRICE FDVS-2008	8"	565	AUTO	25	15	0.75"	22	NO	3C	2	565	70.0	92.1	1.44	120	100	14.5	2-WAY	1.0	565	1.25	3.9	4.9	15	1/3	115/1	89	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1221	PRICE FDVS-2006	6"	445	AUTO	15	15	0.75"	28	NO	3C	2	445	70.0	94.4	2.40	120	110	12.4	2-WAY	1.7	445	1.25	3.9	4.9	15	1/3	115/1	89	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1229	PRICE FDVS-2006	6"	310	AUTO	20	15	0.75"	21	NO	3C	2	310	70.0	97.1	2.45	120	112	10.1	2-WAY	1.7	310	1.25	3.9	4.9	15	1/3	115/1	89	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1227	PRICE FDVS-2008	8"	590	AUTO	50	255	0.75"	24	YES	3CC	2	590	70.0	78.0	5.16	120	114	16.1	2-WAY	3.6	590	1.25	3.9	4.9	15	1/3	115/1	89	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1228	PRICE FDVS-3010	10"	1000	AUTO	70	345	0.75"	22	NO	3CC	2	1000	70.0	80.3	3.83	120	107	25.4	2-WAY	2.7	1000	1.25	7.4	9.3	15	1/2	115/1	95	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1310	PRICE FDVS-2008	8"	640	AUTO	125	75	0.75"	25	NO	3C	2	640	70.0	91.7	4.91	120	111	21.0	2-WAY	3.5	640	1.25	3.9	4.9	15	1/3	115/1	89	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1315	PRICE FDVS-2006	6"	365	AUTO	20	15	0.75"	24	NO	3C	2	365	70.0	97.1	1.37	120	103	11.6	2-WAY	1.0	365	1.25	3.9	4.9	15	1/3	115/1	89	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1316	PRICE FDVS-4010	10"	790	AUTO	20	15	0.75"	--	NO	3C	2	790	70.0	94.3	3.02	120	106	21.4	2-WAY	2.1	790	1.25	7.2	9.0	15	1/2	115/1	125	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1327	PRICE FDVS-2008	8"	600	AUTO	70	45	0.75"	24	NO	3C	2	600	70.0	97.3	7.46	120	114	21.1	2-WAY	5.3	600	1.25	3.9	4.9	15	1/3	115/1	89	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4
FPP-1328	PRICE FDVS-2006	6"	430	AUTO	30	15	0.75"	26	NO	3C	2	430	70.0	103.1	7.92	120	116	17.0	2-WAY	5.6	430	1.25	3.9	4.9	15	1/3	115/1	89	HIGH CAPACITY COIL, ACCESS DOOR, ECM MOTOR, FILTER BOX, CONTROLS PER BAS 0.002 DETAIL 4

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

TAG	DESCRIPTION	NOMINAL SIZE (IN)	INLET SIZE (IN)	MODEL	QUANTITY
CEP-1	PERFORATED CEILING EXHAUST	12x12	6Ø	PRICE PDDR	3
CEP-3	PERFORATED CEILING EXHAUST	24x12	6Ø	PRICE PDDR	1
CRU-2	PERFORATED PLENUM CEILING RETURN	24x12	24x12	PRICE PFRF	7
CRU-3	PERFORATED PLENUM CEILING RETURN	24x24	24x24	PRICE PFRF	96
CSO-5	SQUARE PLAQUE CEILING DIFFUSER	24x24	10Ø	PRICE SPD	14
CSO-6	SQUARE PLAQUE CEILING DIFFUSER	24x24	12Ø	PRICE SPD	24
CSO-7	SQUARE PLAQUE CEILING DIFFUSER	24x24	14Ø	PRICE SPD	3
CSP-1	PERFORATED CEILING DIFFUSER	12x12	6Ø	PRICE PDSP	1
CSP-3	PERFORATED CEILING DIFFUSER	24x24	6Ø	PRICE PDSP	11
CSP-4	PERFORATED CEILING DIFFUSER	24x24	8Ø	PRICE PDSP	26
CSP-5	PERFORATED CEILING DIFFUSER	24x24	10Ø	PRICE PDSP	54
CSP-6	PERFORATED CEILING DIFFUSER	24x24	12Ø	PRICE PDSP	70
CSP-7	PERFORATED CEILING DIFFUSER	24x24	14Ø	PRICE PDSP	1

1. SEE SPECIFICATIONS FOR OPTIONS
2. DIFFUSER QUANTITIES ARE APPROXIMATE. SEE PLANS FOR ACTUAL COUNT

SWATT MIERS ARCHITECTS

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REGISTERED PROFESSIONAL ENGINEER GLENN FRIEDMAN EXP. 08/31/22 CIVIL STATE OF CALIFORNIA

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

Apr 30 2022

SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

Issue

Rev	Date	Description
	11/5/2021	Permit Submittal
	9/06/2022	Issued for Bid

Drawn By	AW/LVR
Checked By	GAF
Job. No.	1919
Scale	NO SCALE

Drawing Title
HVAC SCHEDULES

Sheet
M0.03

11/5/2021 5:25:58 PM

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.			
Project Name: East Palo Alto Government Center HVAC Upgrade		Report Page:	Page 1 of 11
Project Address: 2415 University Ave, East Palo Alto, CA 94303		Date Prepared:	8/30/2021

A. GENERAL INFORMATION

01	Project Location (city)	East Palo Alto	04	Total Conditioned Floor Area	45,000
02	Climate Zone	3	05	Total Unconditioned Floor Area	50,000
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	3

☑ Office (B) ☐ Retail (M) ☐ Non-refrigerated Warehouse (S)
☐ Hotel/ Motel Guest Rooms (R-1) ☐ School (E) ☐ Healthcare Facility (I)
☐ High-Rise Residential (R-2/R-3) ☐ Relocatable Class Bldg (E) ☐ Other (Write In):

[1] *FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html*

B. PROJECT SCOPE
Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

My project consists of (check all that apply)		
01	02	03
Air System(s)	Wet System Components	Dry System Components
☐ Heating Air System	☐ Water Economizer	☑ Air Economizer
☐ Cooling Air System	☑ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☑ Hydronic System Piping	☑ Fan Systems
☑ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☑ Ductwork (existing to remain, altered or new)
	☐ Chillers	☑ Ventilation
	☐ Boilers	☑ Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)															COMPLIES

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

Selections made in Table O have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
This Section Does Not Apply

G. PUMPS
Table Instructions: Complete the following pump schedule to show compliance with Prescriptive hydronic system requirements found in §140.4(k) applicable to pumps < 5hp.

01	02	03	04	05	06	07	08
				Controls per §140.4(k)			
Name or Item Tag	Equipment Type	Qty	HP	Variable Flow	Hydronic Heat Pump Isolation	VSD on Pumps > 5HP	Differential Pressure Sensor
HWP-1	Secondary heating hot water	1	7.5	NA: pump system < 1.5 hp			

Reset | Add Row | Remove Last

H. FAN SYSTEMS & AIR ECONOMIZERS
Table Instructions: Complete the following Table for fan systems to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m). First document the system details, then add fans within that system to document compliance with fan power requirements. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	AHU-1	Economizer:[1]	Fixed Temperature	Economizer Controls:		System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B: Device	Design Airflow through Device (CFM)

Table Continued

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SF-1	Supply	1	45,000	Nameplate HP	50	None used	
						Calculated Adjustment (in H_2O)	
						Add Pressure Drop Adj. Device	Remove Last Pressure Drop Adj. Device
RF-1	Exhaust	1	32,720	Nameplate HP	10		
						Calculated Adjustment (in H_2O)	
						Add Pressure Drop Adj. Device	Remove Last Pressure Drop Adj. Device
						Add Fan to System	Remove Last Fan
Total System Design Supply Airflow (CFM):	77,720	Total System Design (B)HP:	60	Maximum System Fan Power (B)HP:	116.58		

Reset | Add System | Remove Last

[1] *FOOTNOTE: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*
[2] *The unit used for HP must be consistent for all fans within a system.*

I. SYSTEM CONTROLS
Table Instructions: Complete the following Table to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a) or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
CENTRAL AIR SYS	multi-zone	> 25,000 ft²	EMCS	EMCS	EMCS	EMCS	Included	NA: No operable windows

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*
** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: System 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(f)

Reset | Add Row | Remove Last

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J. VENTILATION AND INDOOR AIR QUALITY
Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☑	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☐	Check this box if the project includes Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project includes new or altered high-rise residential dwelling units
03	☐	Check the box if the project is using natural ventilation in any spaces to meet required ventilation rates per §120.1(c)2.

Add System | Remove Last

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.*
[2] *Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*
[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*
[4] *See Standards Tables 120.1-A and 120.1-B.*
[5] *For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.*
[6] *§120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).*

K. TERMINAL BOX CONTROLS
Table Instructions: Complete the following Table to demonstrate compliance with prescriptive zone control requirements in §140.4(d).

01	02	03	04	05	06	07	08	09	10	11	12
		Design			Deadband Compliance			Reheated, Recooled, Mixed Air Compliance			
Zone/System/ VAV Box Name or Item Tag	Zonal Control Strategy per §140.4(d)	Peak Primary Airflow CFM	Primary Air in Deadband CFM	Reheated Recooled Mixed Airflow CFM	Outside Air CFM	20% (30% if no DDC) of Peak Primary Airflow CFM	Max Deadband Airflow CFM	50% of Peak Primary Airflow	1st Stage Modulates ≤ 95°F and Maintains DB Rate?	2nd Stage Modulates from DB Flow to Heating Max Flow?	Complies
SEE PLANS	VAV w DDC @ zone	100	15	45	15	20	20	50	Yes	Yes	Yes

Reset | Add Row | Remove Last

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

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L. DISTRIBUTION (DUCTWORK AND PIPING)
Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Mandatory Pipe Insulation

01	☑	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

02	03	04	05	06	07	08	09	10
System Type	Nominal Pipe Diameter (in)	Fluid Temp. Range (°F)	Conductivity Range (Btu-in per hr per ft² per °F)	Insulation Mean Rating emp. (F)	Min. Insulation Thickness Required per Table 120.3-A (in)	Min. Insulation Thickness Required per §120.3(c)2 (in)	Insulation Thickness per Design (in)	Exception to §120.3 (if applicable)
Space heating	< 1	105-140	0.22 - 0.28	100	1		1	
Space heating	1 to <1.5	105-140	0.22 - 0.28	100	1.5		1.5	
Space heating	1.5 to <4	105-140	0.22 - 0.28	100	1.5		1.5	
Space heating	4 to <8	105-140	0.22 - 0.28	100	1.5		1.5	
Space cooling	1.5 to <4	40-60	0.21 - 0.27	75	1		1	
Space cooling	4 to <8	40-60	0.21 - 0.27	75	1		1	

Reset | Add Row | Remove Last

Duct Leakage Sealing

The answers to the questions below apply to the following duct system(s):		SUPPLY AIR	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilites.		
12	No	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	No	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawlspace		
		☐ In other unconditioned spaces		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		

Table Continued

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Table Continued

16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17		Duct system shall be sealed in accordance with the California Mechanical Code.

Add Duct System(s) | Remove Last

M. COOLING TOWERS
This Section Does Not Apply

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
●		NRCI-MCH-01-E - Must be submitted for all buildings.		☐	☐

STATE OF CALIFORNIA
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. *Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.*		☐	☐
○	●	NRCA-MCH-03-A Constant Volume Single Zone HVAC *NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
○	●	NRCA-MCH-04-A Air Distribution Duct Leakage		☐	☐
●	○	NRCA-MCH-05-A Air Economizer Controls		☐	☐
●	○	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.		☐	☐
●	○	NRCA-MCH-07-A Supply Fan Variable Flow Controls		☐	☐
●	○	NRCA-MCH-08-A Valve Leakage Test		☐	☐
●	○	NRCA-MCH-09-A Supply Water Temperature Reset Controls		☐	☐
○	●	NRCA-MCH-10-A Hydronic System Variable Flow Controls		☐	☐
○	●	NRCA-MCH-11-A Automatic Demand Shed Controls		☐	☐

STATE OF CALIFORNIA
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○	●	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		☐	☐
○	●	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		☐	☐
○	●	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance *NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
○	●	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance *NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
●	○	NRCA-MCH-16-A Supply Air Temperature Reset Controls		☐	☐
○	●	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		☐	☐
●	○	NRCA-MCH-18 Energy Management Control Systems		☐	☐
●	○	NRCA-MCH-19 Occupancy Sensor Controls		☐	☐
○	●	NRCA-MCH-20 Multi-Family Ventilation		☐	☐
○	●	NRCA-MCH-21 Multi-Family Envelope Leakage		☐	☐

STATE OF CALIFORNIA
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P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
○	●	NRCV-MCH-04-H Duct Leakage Test *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-24 Enclosure Air Leakage Worksheet *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-27 High-rise Residential *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater*	☐	☐

STATE OF CALIFORNIA
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Q. MANDATORY MEASURES DOCUMENTATION LOCATION
Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A", any active cells that are left blank will result in non-compliance in Table C.

01		02
		Plan sheet or construction document location
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	Yes	110.2 (A) - NO APPLICABLE 110.2 (B) - NO APPLICABLE 110.2 (C) - SEE SPEC 250000 PARAGRAPH 1.1A 110.2 (D) - NO APPLICABLE 110.2 (E) - NO APPLICABLE 110.2 (F) - NO APPLICABLE

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	ADAM WILLIAMS	Documentation Author Signature:	Adam Williams (Digitally signed by Adam Williams Date: 2021.08.30 21:50:14 -07'00')
Company:	TAYLOR ENGINEERING	Signature Date:	8/30/2021
Address:	1080 MARINA VILLAGE PKWY SUITE 501	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	ALAMEDA CA 94501	Phone:	253-590-9392

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name:	GLENN FRIEDMAN	Responsible Designer Signature:	Glenn Friedman (Digitally signed by Glenn Friedman Date: 2021.08.31 16:51:07 -07'00')
Company :	TAYLOR ENGINEERING	Date Signed:	
Address:	1080 MARINA VILLAGE PKWY SUITE 501	License:	M22870
City/State/Zip:	ALAMEDA CA 94501	Phone:	(510) 263-1542

K. Terminal Box Controls

01	02	03	04	05	06	07	08	09	10	11	12
		Design			Deadband Compliance			Reheated, Recooled, Mixed Air Compliance			
Zone/System/ VAV Box Name or Item Tag	Zone Control Strategy per 140.4(d)	Peak Primary Airflow CFM	Primary air in Deadband CFM	Reheat Recooled Mixed Airflow CFM	Outside Air CFM	20% of Peak Primary Arflow CFM	Max Deadband Airflow CFM	50% of Peak Primary Airflow	1st Stage Modulates ≤ 95°F and Maintains DB Rate?	2nd Stage Modulates from DB Flow to Heating Max Flow	Complies
VR-1101	VAV w DDC @ zone	1405	40	645	40	281	281	702.5	Yes	Yes	Yes
VR-1102	VAV w DDC @ zone	2120	155	1015	155	424	424	1060	Yes	Yes	Yes
VR-1103	VAV w DDC @ zone	255	30	30	30	51	51	127.5	Yes	Yes	Yes
VR-1104	VAV w DDC @ zone	415	45	45	45	83	83	207.5	Yes	Yes	Yes
VR-1105	VAV w DDC @ zone	795	80	395	80	159	159	397.5	Yes	Yes	Yes
VR-1108	VAV w DDC @ zone	1950	65	905	65	390	390	975	Yes	Yes	Yes
VR-1109	VAV w DDC @ zone	945	105	105	105	189	189	472.5	Yes	Yes	Yes
VR-1111	VAV w DDC @ zone	1385	480	480	480	277	480	692.5	Yes	Yes	Yes
VR-1112	VAV w DDC @ zone	1440	240	240	240	288	288	720	Yes	Yes	Yes
VR-1116	VAV w DDC @ zone	2130	1410	290	1410	426	1410	1065	Yes	Yes	Yes
VR-1117	VAV w DDC @ zone	2420	1095	1125	1095	484	1095	1210	Yes	Yes	Yes
VR-1201	VAV w DDC @ zone	1600	240	650	240	320	320	800	Yes	Yes	Yes
VR-1202	VAV w DDC @ zone	1025	105	425	105	205	205	512.5	Yes	Yes	Yes
VR-1203	VAV w DDC @ zone	745	85	85	85	149	149	372.5	Yes	Yes	Yes
VR-1204	VAV w DDC @ zone	330	35	35	35	66	66	165	Yes	Yes	Yes
VR-1205	VAV w DDC @ zone	505	25	215	25	101	101	252.5	Yes	Yes	Yes
VR-1207	VAV w DDC @ zone	730	40	305	40	146	146	365	Yes	Yes	Yes
VR-1209	VAV w DDC @ zone	1660	185	185	185	332	332	830	Yes	Yes	Yes
VR-1210	VAV w DDC @ zone	1085	320	320	320	217	320	542.5	Yes	Yes	Yes
VR-1211	VAV w DDC @ zone	120	35	35	35	24	35	60	Yes	Yes	Yes
VR-1212	VAV w DDC @ zone	1180	35	515	35	236	236	590	Yes	Yes	Yes
VR-1213	VAV w DDC @ zone	560	35	280	35	112	112	280	Yes	Yes	Yes
VR-1214	VAV w DDC @ zone	1030	180	515	180	206	206	515	Yes	Yes	Yes
VR-1215	VAV w DDC @ zone	2315	190	1015	190	463	463	1157.5	Yes	Yes	Yes
VR-1216	VAV w DDC @ zone	2585	290	290	290	517	517	1292.5	Yes	Yes	Yes
VR-1217	VAV w DDC @ zone	310	35	35	35	62	62	155	Yes	Yes	Yes
VR-1218	VAV w DDC @ zone	360	30	160	30	72	72	180	Yes	Yes	Yes
VR-1219	VAV w DDC @ zone	210	45	45	45	42	45	105	Yes	Yes	Yes
VR-1220	VAV w DDC @ zone	320	15	155	15	64	64	160	Yes	Yes	Yes
VR-1222	VAV w DDC @ zone	1945	210	210	210	389	389	972.5	Yes	Yes	Yes
VR-1223	VAV w DDC @ zone	640	70	265	70	128	128	320	Yes	Yes	Yes
VR-1224	VAV w DDC @ zone	120	25	50	25	24	25	60	Yes	Yes	Yes
VR-1225	VAV w DDC @ zone	405	45	45	45	81	81	202.5	Yes	Yes	Yes
VR-1226	VAV w DDC @ zone	515	120	230	120	103	120	257.5	Yes	Yes	Yes
VR-1301	VAV w DDC @ zone	1095	55	460	55	219	219	547.5	Yes	Yes	Yes
VR-1302	VAV w DDC @ zone	530	15	265	15	106	106	265	Yes	Yes	Yes
VR-1303	VAV w DDC @ zone	700	40	300	40	140	140	350	Yes	Yes	Yes
VR-1304	VAV w DDC @ zone	205	60	60	60	41	60	102.5	Yes	Yes	Yes
VR-1305	VAV w DDC @ zone	375	150	40	150	75	150	187.5	Yes	Yes	Yes
VR-1306	VAV w DDC @ zone	485	135	135	135	97	135	242.5	Yes	Yes	Yes
VR-1307	VAV w DDC @ zone	405	60	150	60	81	81	202.5	Yes	Yes	Yes
VR-1308	VAV w DDC @ zone	1310	570	115	570	262	570	655	Yes	Yes	Yes
VR-1309	VAV w DDC @ zone	1350	65	580	65	270	270	675	Yes	Yes	Yes
VR-1311	VAV w DDC @ zone	85	15	40	15	17	17	42.5	Yes	Yes	Yes
VR-1312	VAV w DDC @ zone	530	15	265	15	106	106	265	Yes	Yes	Yes
VR-1313	VAV w DDC @ zone	640	170	170	170	128	170	320	Yes	Yes	Yes
VR-1314	VAV w DDC @ zone	1145	35	485	35	229	229	572.5	Yes	Yes	Yes
VR-1317	VAV w DDC @ zone	285	45	45	45	57	57	142.5	Yes	Yes	Yes
VR-1318	VAV w DDC @ zone	1120	65	560	65	224	224	560	Yes	Yes	Yes
VR-1319	VAV w DDC @ zone	910	120	435	120	182	182	455	Yes	Yes	Yes
VR-1320	VAV w DDC @ zone	720	25	360	25	144	144	360	Yes	Yes	Yes
VR-1321	VAV w DDC @ zone	330	20	165	20	66	66	165	Yes	Yes	Yes
VR-1322	VAV w DDC @ zone	645	105	105	105	129	129	322.5	Yes	Yes	Yes
VR-1323	VAV w DDC @ zone	1115	185	185	185	223	223	557.5	Yes	Yes	Yes
VR-1324	VAV w DDC @ zone	115	20	50	20	23	23	57.5	Yes	Yes	Yes
VR-1325	VAV w DDC @ zone	1220	200	200	200	244	244	610	Yes	Yes	Yes
VR-1326	VAV w DDC @ zone	370	30	185	30	74	74	185	Yes	Yes	Yes
VR-1329	VAV w DDC @ zone	790	55	385	55	158	158	395	Yes	Yes	Yes
VR-1330	VAV w DDC @ zone	1665	275	275	275	333	333	832.5	Yes	Yes	Yes
VR-1331	VAV w DDC @ zone	215	35	35	35	43	43	107.5	Yes	Yes	Yes
FPS-1106	VAV w DDC @ zone	1480	240	240	240	296	296	740	Yes	N/A	Yes
FPP-1110	VAV w DDC @ zone	1990	345	345	345	398	398	995	Yes	N/A	Yes
FPP-1113	VAV w DDC @ zone	2060	210	210	210	412	412	1030	Yes	N/A	Yes
FPP-1206	VAV w DDC @ zone	535	70	70	70	107	107	267.5	Yes	N/A	Yes
FPP-1208	VAV w DDC @ zone	565	25	25	25	113	113	282.5	Yes	N/A	Yes
FPP-1221	VAV w DDC @ zone	445	15	15	15	89	89	222.5	Yes	N/A	Yes
FPP-1229	VAV w DDC @ zone	310	20	20	20	62	62	155	Yes	N/A	Yes
FPP-1227	VAV w DDC @ zone	590	255	255	255	118	255	295	Yes	N/A	Yes
FPP-1228	VAV w DDC @ zone	1000	345	345	345	200	345	500	Yes	N/A	Yes
FPP-1310	VAV w DDC @ zone	640	125	125	125	128	128	320	Yes	N/A	Yes
FPP-1315	VAV w DDC @ zone	365	20	20	20	73	73	182.5	Yes	N/A	Yes
FPP-1316	VAV w DDC @ zone	790	20	20	20	158	158	395	Yes	N/A	Yes
FPP-1327	VAV w DDC @ zone	600	70	70	70	120	120	300	Yes	N/A	Yes
FPP-1328	VAV w DDC @ zone	430	30	30	30	86	86	215	Yes	N/A	Yes

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Apr 30 2022
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER
2415 University Ave.
East Palo Alto, CA 94303

Issue

Rev	Date	Description
	11/5/2021	Permit Submittal
	9/06/2022	Issued for Bid

Drawn By	AW/LVR
Checked By	GAF
Job. No.	1919
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Drawing Title
HVAC TITLE 24

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STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E (Created) CALIFORNIA ENER

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance for nonresidential occupancies with requirements in , , , and , and with requirements in for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies, compliance is demonstrated and with requirements in for additions and alterations.

Project Name:	EAST PALO ALTO GOVERNMENT CENTER	Report Page:	
Project Address:	2415 University Ave. East Palo Alto, CA 94303	Date Prepared:	

A. GENERAL INFORMATION

01	Project Location (city)	East Palo Alto	02	Climate Zone	4

03 Occupancy Types Within Project (select all that apply):

☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/ Motel	
☐ State Building	☐ Healthcare Facility	☐ Other (Write In):	

B. PROJECT SCOPE

Table Instructions: Include any domestic water heating systems that are within the scope of the permit application and are demonstrating com paths outlined in , , and , or for additions or alterations. Solar water heating systems should be documented on the NRCC-SRA compliance doc heating systems should be documented on the NRCC-MCH compliance document.

01	02	
My project consists of (check all that apply):	System Type[1]	S
☐ New System (DHW system being installed for the first time in newly constructed building)		☐ Equipment
☑ System Alteration (equipment, distribution or controls)	Combined Hydronic System	☑ Equipment

[1] *FOOTNOTE: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
[2] *Dwelling units refers to hotel/ motel guest rooms and units in a high-rise residential occupancy.*

C. COMPLIANCE RESULTS

Table Instructions: Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compli

01	02	03	0
Domestic Hot Water Equipment	Distribution Systems	Controls	**Complian**
(See Table F)	(See Table G)	(See Table H)	
Yes	Yes	Yes	COM

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E (Created) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E

Project Name:	EAST PALO ALTO GOVERNMENT CENTER	Report Page:	
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K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
○	◉	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification	☐	☐
○	◉	NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification	☐	☐

STATE OF CALIFORNIA

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CERTIFICATE OF COMPLIANCE NRCC-PLB-E

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D. EXCEPTIONAL CONDITIONS

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

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

This Section Does Not Apply

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This Section Does Not Apply

H. DOMESTIC HOT WATER SYSTEM CONTROLS

This Section Does Not Apply

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
○	◉	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance.	☐	☐
○	◉	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/ motel single dwelling unit hot water distribution systems to be recognized for compliance.	☐	☐

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E (Created) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E

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Project Address:	2415 University Ave. East Palo Alto, CA 94303	Date Prepared:	2021-09-

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	Amritpal Singh	Documentation Author Signature:	Amritpal Singh
Company:	Taylor Engineering	Signature Date:	2/23/2021
Address:	1080 Marina Village Pkwy, Ste 501	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Alameda, CA 94501	Phone:	510-749-9135

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name:	Glenn Friedman	Responsible Designer Signature:	Glenn Friedman
Company:	Taylor Engineering	Date Signed:	9/10/2021
Address:	1080 Marina Village Pkwy, Ste 501	License:	
City/State/Zip:	Alameda, CA 94501	Phone:	510-749-9135

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Drawing Title

PLUMBING TITLE 24

M0.05

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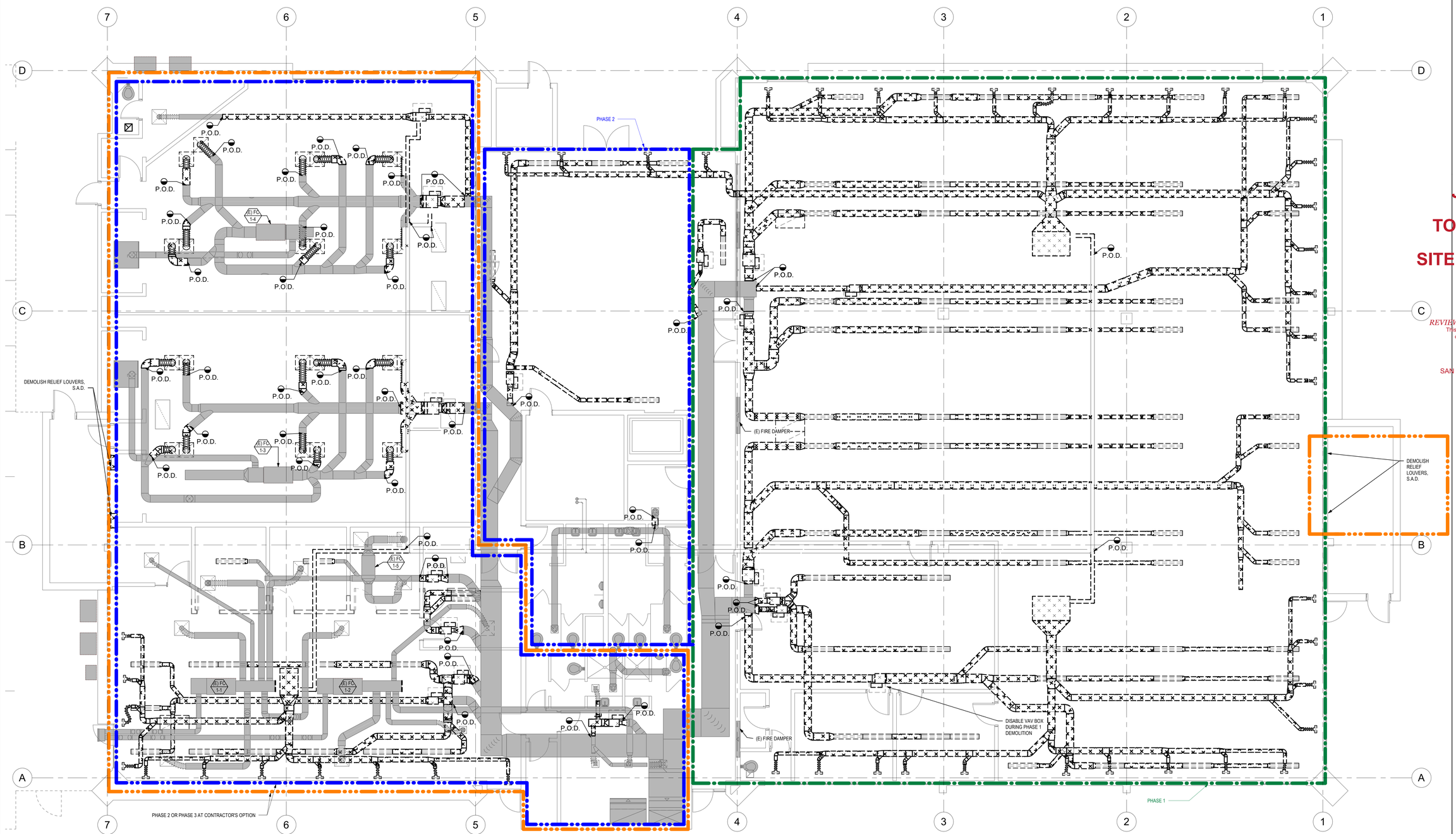

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Drawing Title

LEVEL 01 HVAC DEMO PLAN

M1.01

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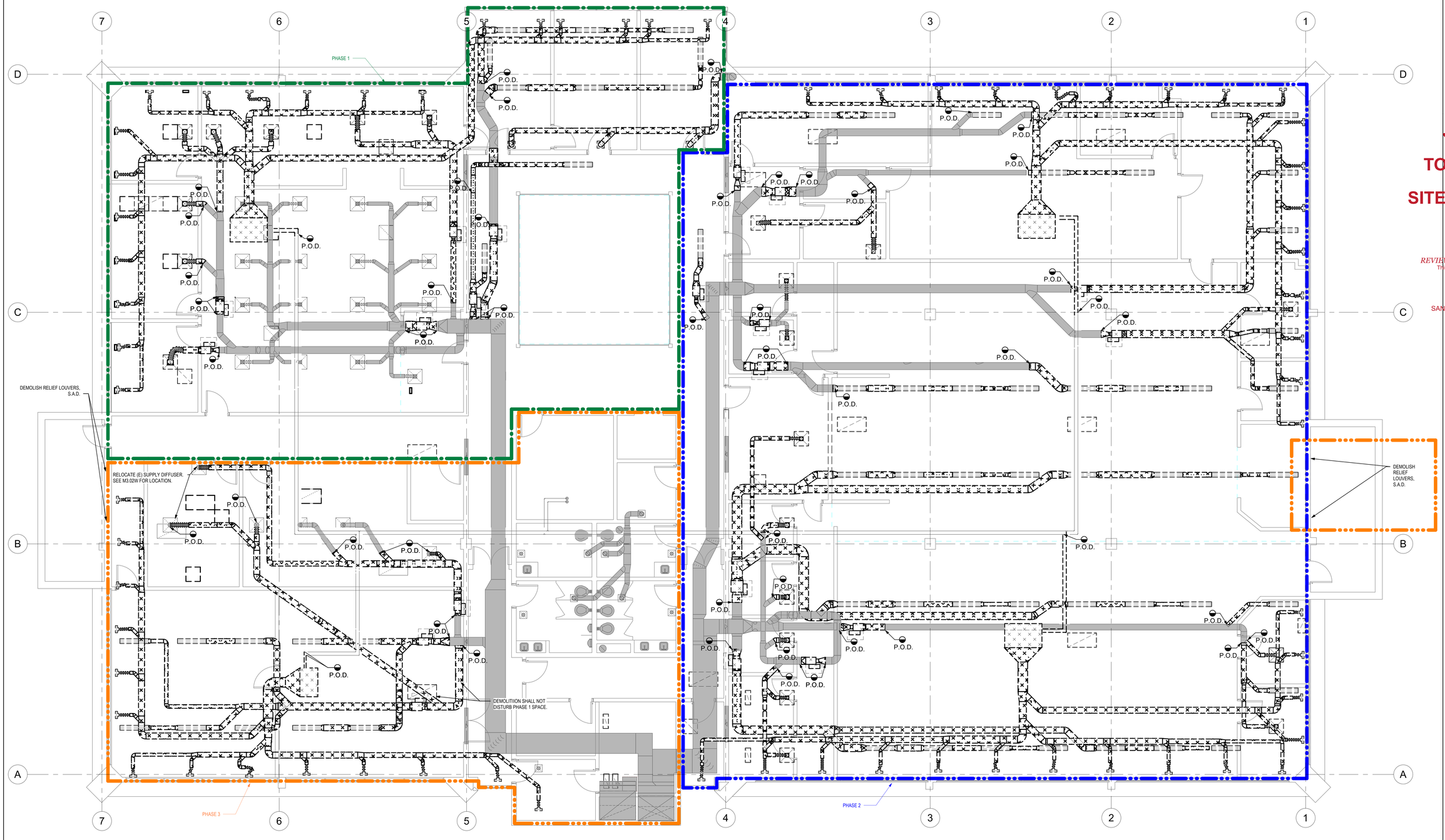

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Drawing Title

LEVEL 02 HVAC DEMO PLAN

M1.02

Sheet

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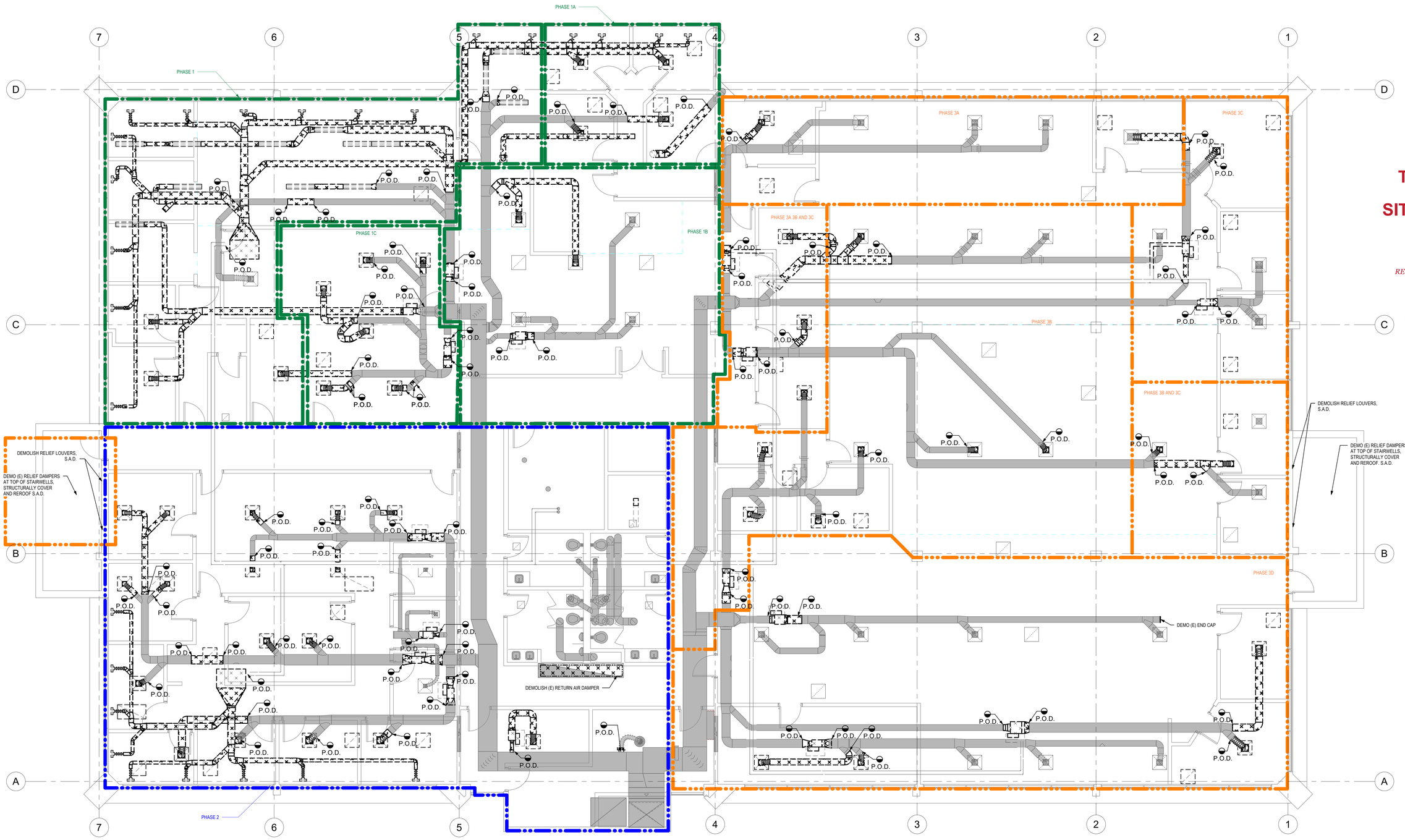

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LEVEL 03 HVAC DEMO PLAN

M1.03

Sheet

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ROOF AND PENTHOUSE WORK SHALL BE PERFORMED DURING PHASE 2 AND/OR PHASE 3 AT THE CONTRACTOR'S OPTION
ROOF AND PENTHOUSE WORK SHALL BE PERFORMED ON EVENINGS AND WEEKENDS AS REQUIRED TO PROVIDE UNINTERRUPTED HVAC SERVICE DURING NORMAL BUSINESS HOURS

DEMOLISH (E) EF-3

DEMOLISH (E) EF-1

DEMOLISH (E) EF-2

DEMO (E) CONDENSER WATER PIPING

DEMO (E) COOLING TOWER

(E) GENERATOR

DOMOLISH (E) WATER HEATER AND FLUE

DEMOLISH (E) GAS PIPING SUPPLYING GAS TO (E) WATER HEATER. CAP THE (E) GAS LINE OUTSIDE OF THE ROOM. DEMOLISH THE (E) WATER HEATER FUEL EXHAUST. CLOSE THE ROOF PENETRATION.

DEMOLISH (E) BOILER AND FLUE

DEMOLISH (E) EXPANSION TANK

DEMOLISH (E) PUMPS TYP OF 3

P.O.D.

DEMOLISH (E) COOLING TOWER VFD

DEMOLISH (E) CHILLER

DEMOLISH (E) AIR COMPRESSOR, AIR DRYER, AND DISTRIBUTION PIPING AT THE END OF PHASE 3

DEMOLISH (E) SUPPLY FAN VFD

DEMOLISH (E) HOT WATER PIPING TO AHU COILS

(E) EXHAUST AIR RISERS TO EF ON THE PENTHOUSE ROOF

DEMOLISH (E) OA DAMPER
DEMOLISH (E) BIRDSCREEN

(E) OA PREFILTER AND FINAL FILTER SHALL REMAIN

DEMOLISH (E) HOT WATER 3-WAY VALVES AND BYPASS

DEMOLISH (E) CHILLED WATER 3-WAY VALVES AND BYPASS

DEMOLISH (E) HEATING AND COOLING COILS DURING PHASE 3

DEMOLISH (E) EF-7

7 6 5 4 3 2 1

A B C D

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HVAC ROOF DEMO PLAN

M1.04

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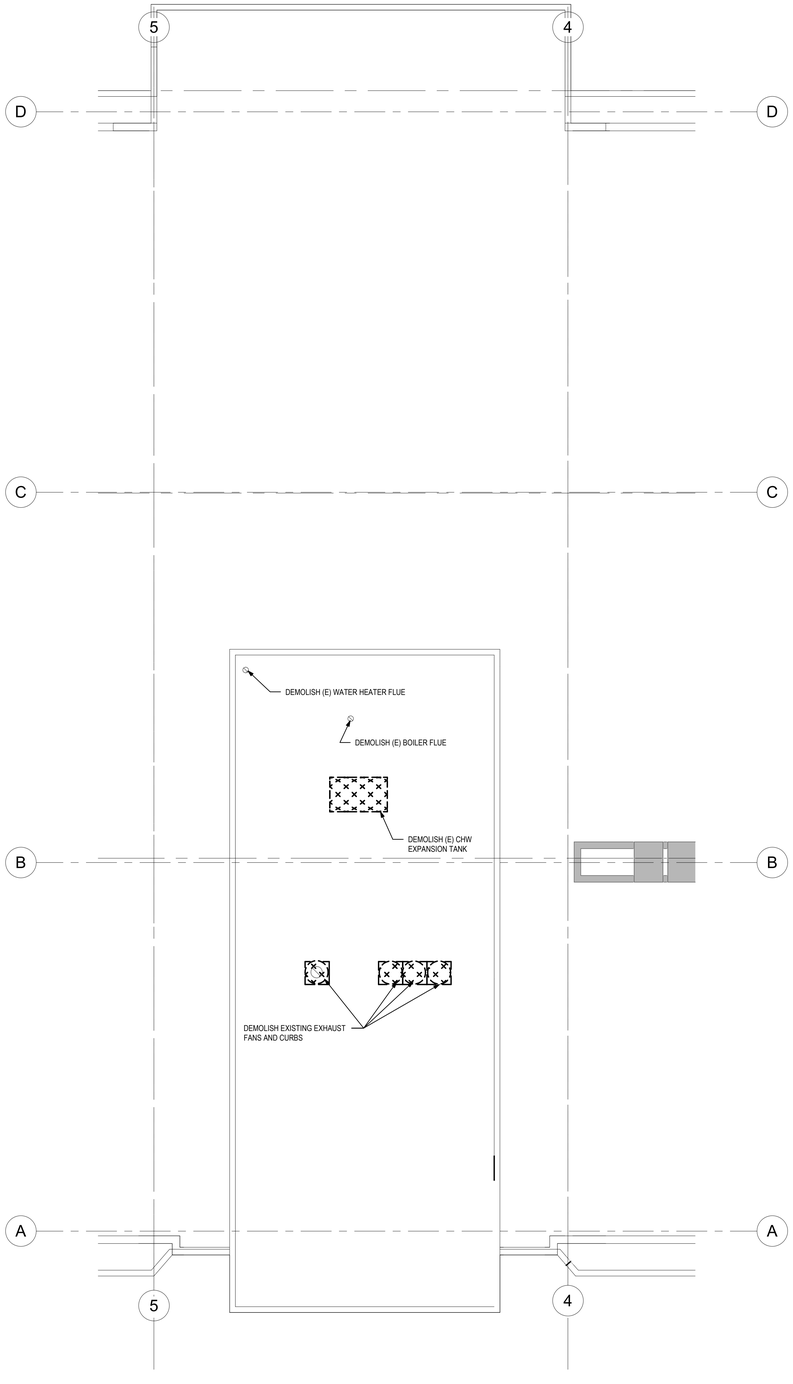

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Drawing Title

HVAC PENTHOUSE ROOF DEMO PLAN

M1.05

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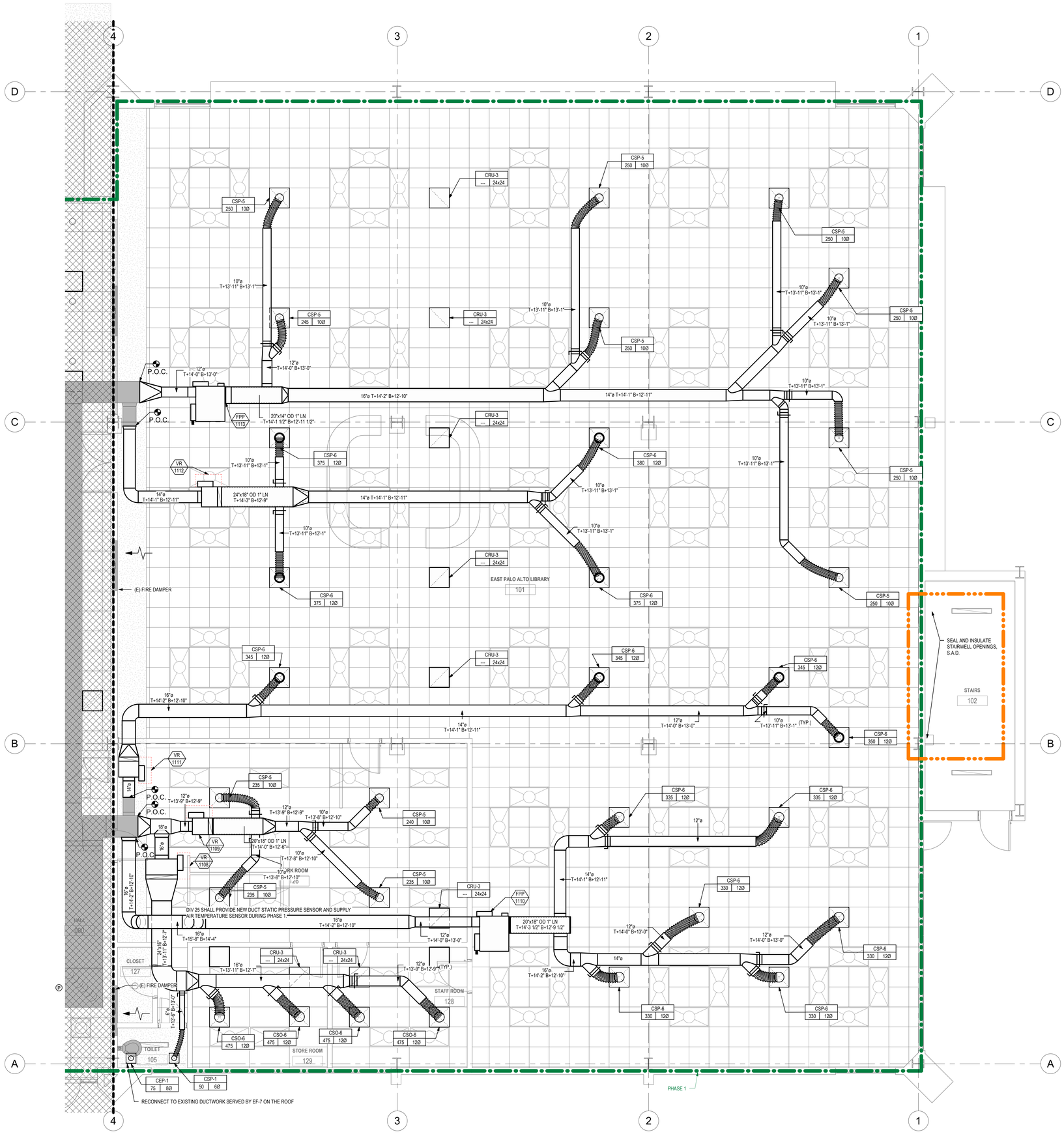

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East Palo Alto, CA 94303

Issue

Rev	Date	Description
	11/5/2021	Permit Submittal
	9/06/2022	Issued for Bid

Drawn By	AW/LVR
Checked By	GAF
Job. No.	1919
Scale	1/4" = 1'-0"

Reference North

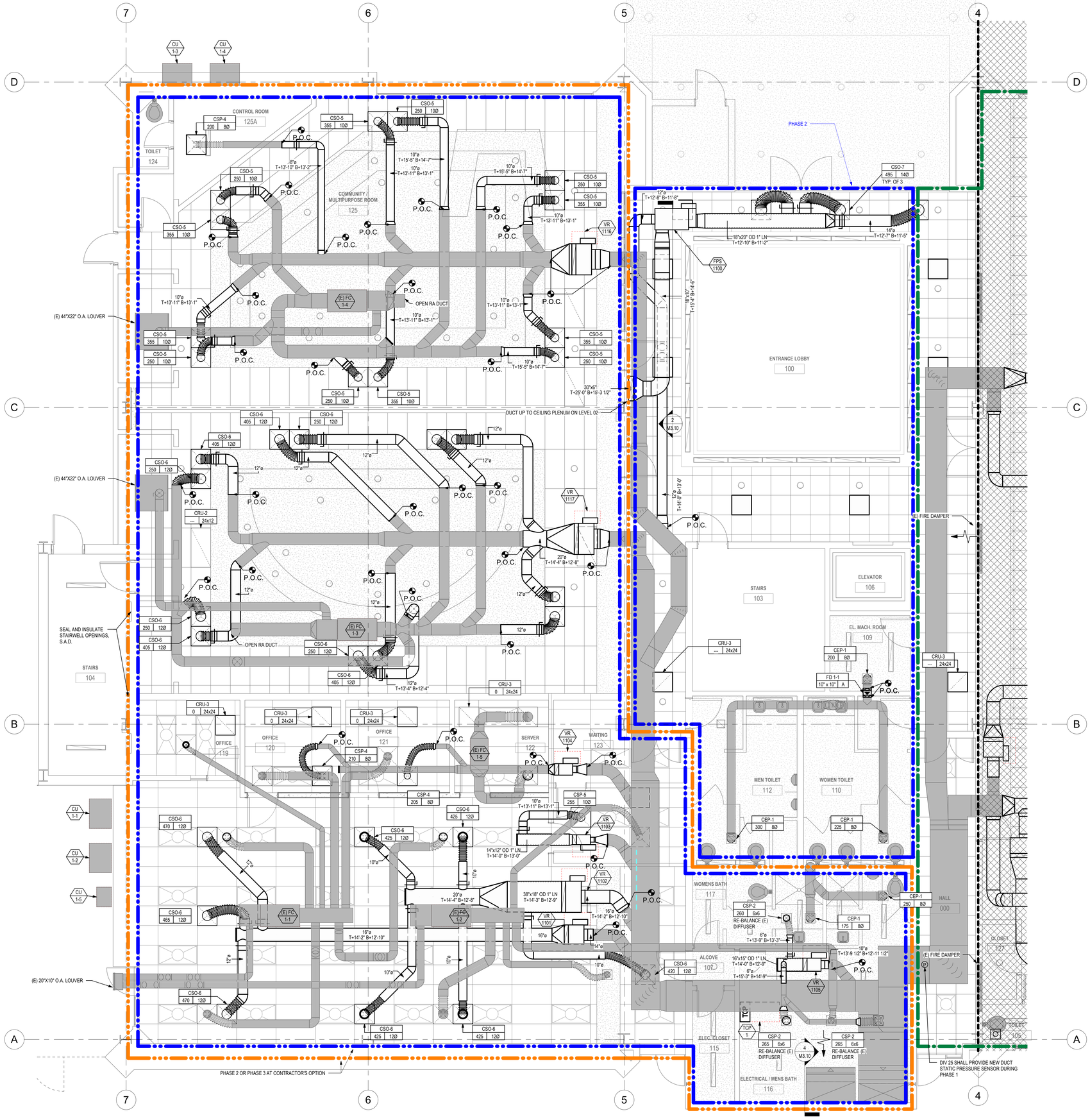
Drawing Title

LEVEL 01 HVAC FLOOR PLAN - EAST

M2.01E

Sheet

11/5/2021 5:26:22 PM



SWATT | MIERS ARCHITECTS

5845 DOYLE STREET
SUITE 104
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TEL 510 985 9779
FAX. 510 985 0116
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Taylor Engineering
1080 Marina Village Parkway, Suite 501
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Phone: (510) 749-9135

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REGISTERED PROFESSIONAL ENGINEER GLENN FRIEDMAN EXP. 06/30/22 MECHANICAL

REVIEWED FOR CODE COMPLIANCE
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Apr 30 2022

SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

Issue

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Reference North

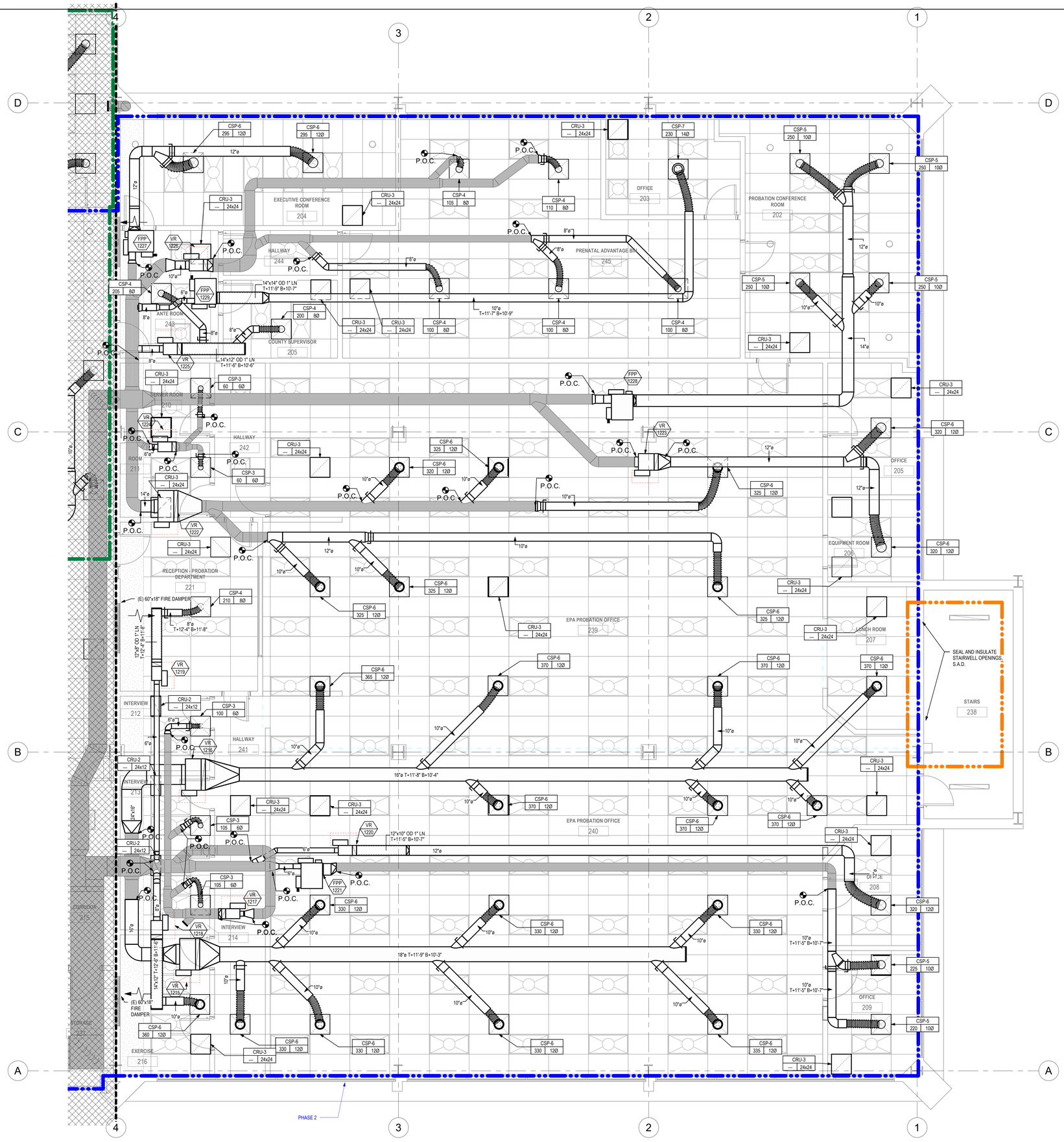
Drawing Title

LEVEL 01 HVAC FLOOR PLAN - WEST

M2.01W

Sheet

11/5/2021 5:26:26 PM



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Reference North

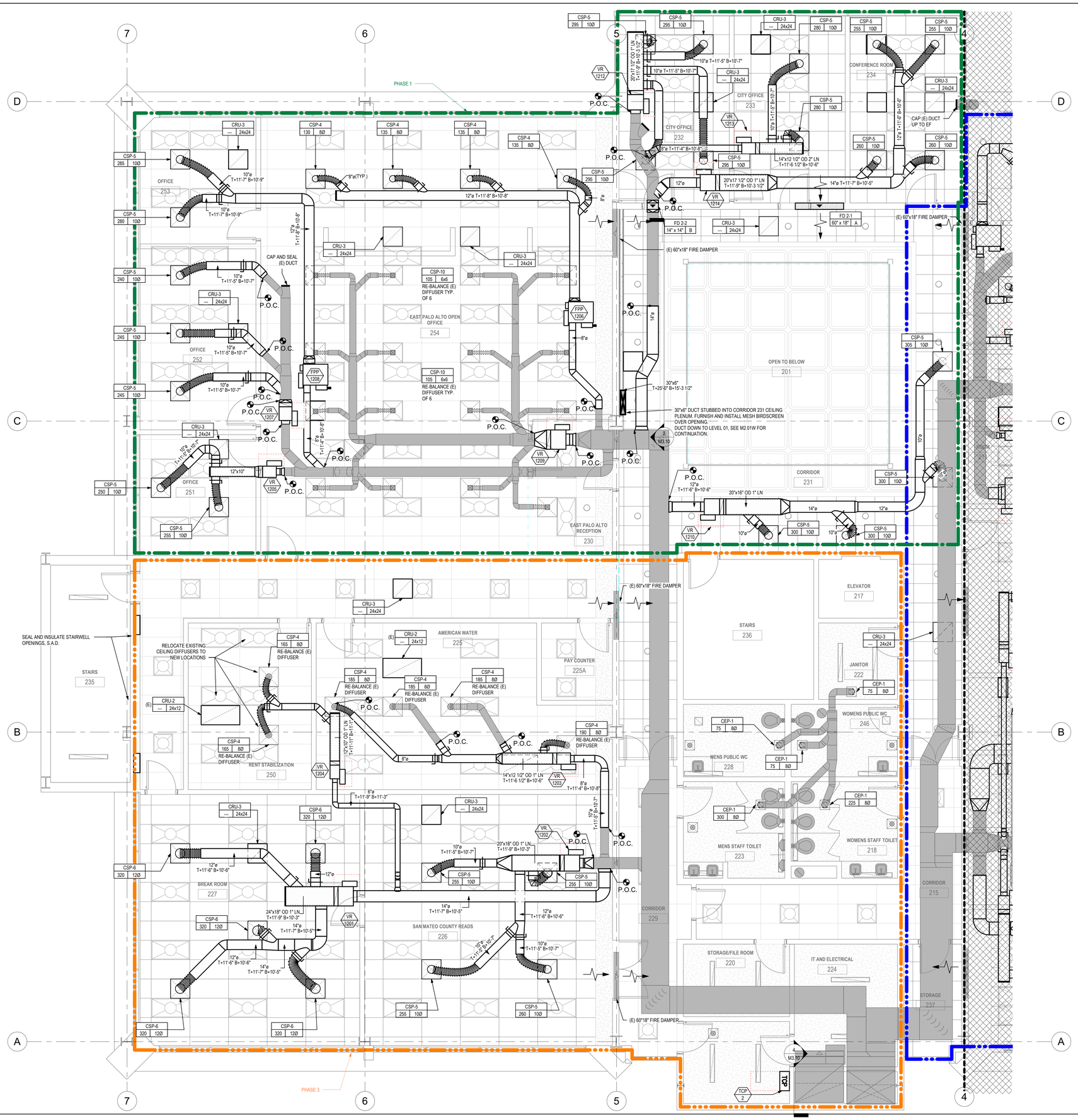
Drawing Title

LEVEL 02 HVAC FLOOR PLAN - EAST

M2.02E

Sheet

11/5/2021 5:26:31 PM



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EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
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Reference North

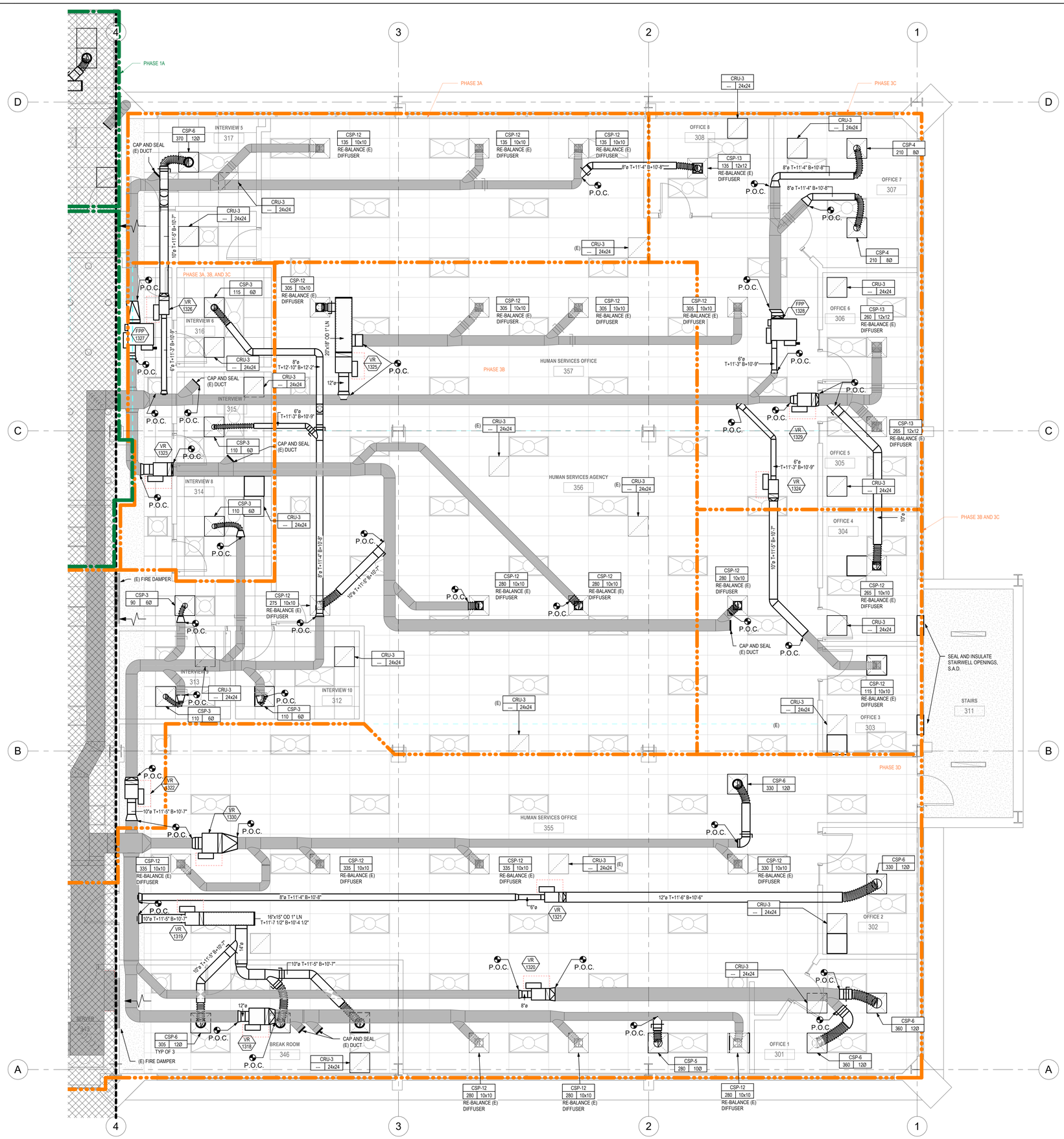
Drawing Title

LEVEL 02 HVAC FLOOR PLAN - WEST

M2.02W

Sheet

11/5/2021 5:26:35 PM



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REVIEWED FOR CODE COMPLIANCE
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SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

Issue

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Drawn By	AW/LVR
Checked By	GAF
Job. No.	1919
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Reference North

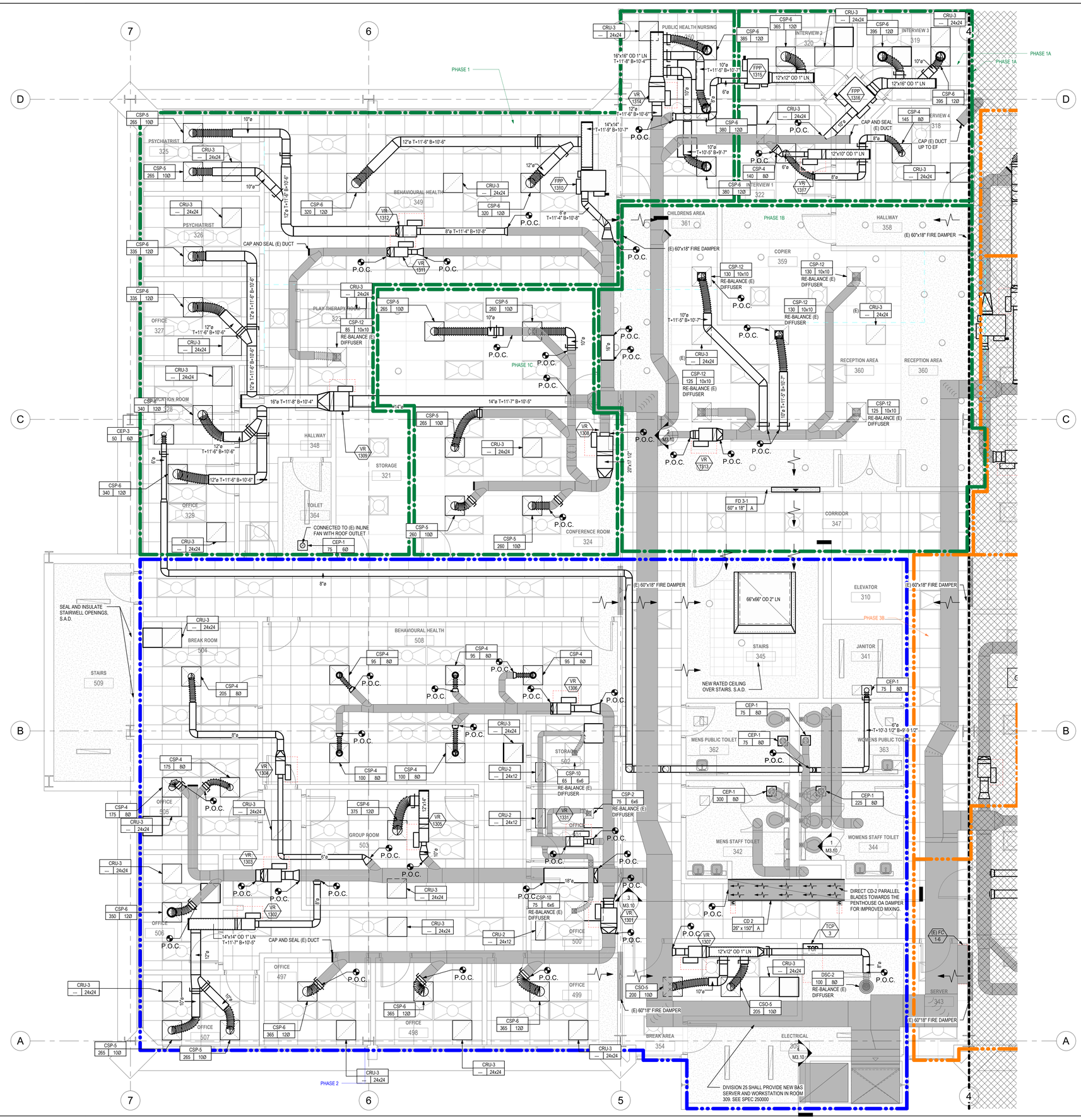
Drawing Title

LEVEL 03 HVAC FLOOR PLAN - EAST

M2.03E

Sheet

11/5/2021 5:26:40 PM



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SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

Issue

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Drawn By	AW/LVR
Checked By	GAF
Job. No.	1919
Scale	1/4" = 1'-0"

Reference North

Drawing Title

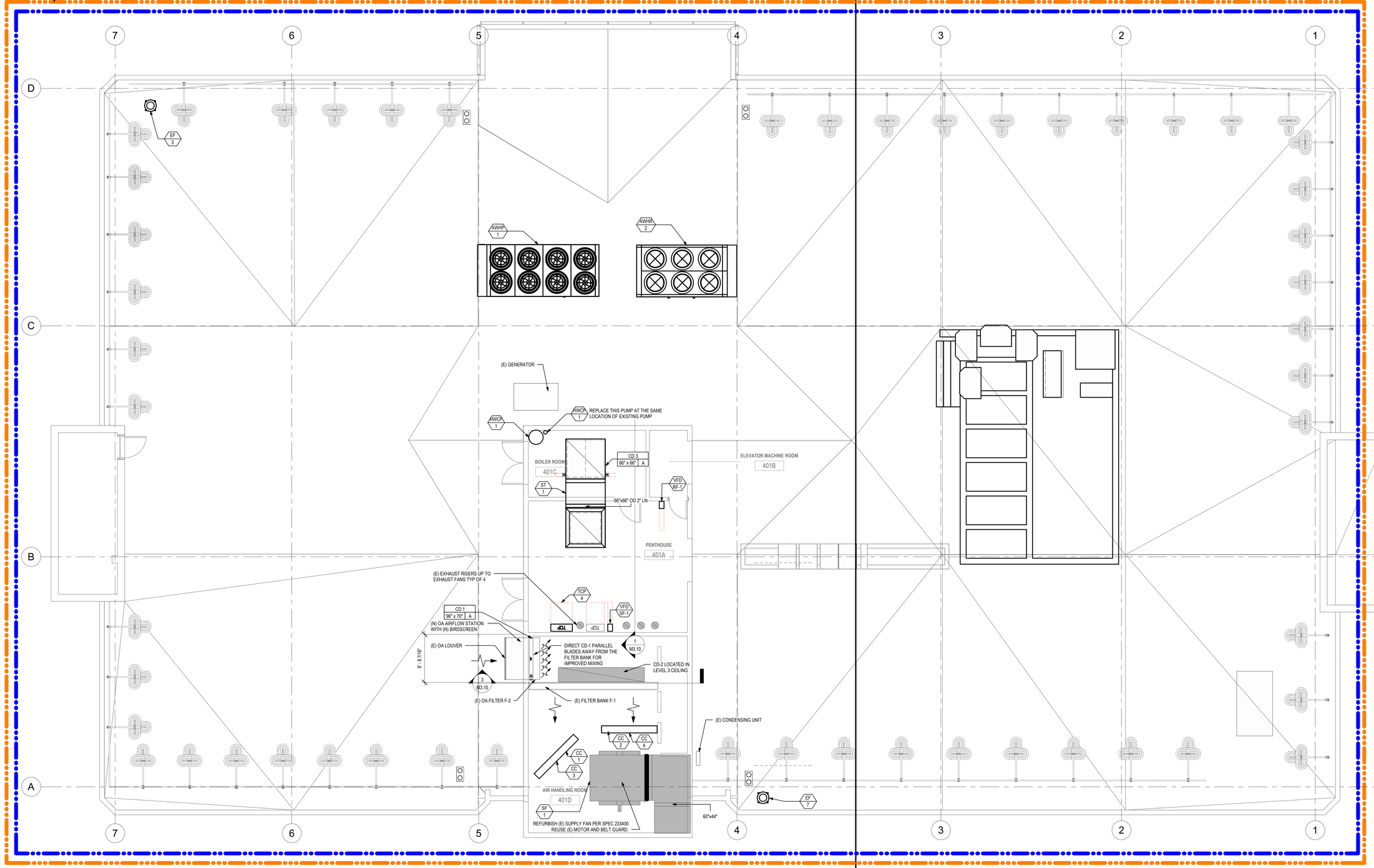
LEVEL 03 HVAC FLOOR PLAN - WEST

M2.03W

Sheet

11/5/2021 5:26:45 PM

ROOF AND PENTHOUSE WORK SHALL BE PERFORMED DURING PHASE 2 AND/OR PHASE 3 AT THE CONTRACTOR'S OPTION
ROOF AND PENTHOUSE WORK SHALL BE PERFORMED ON EVENINGS AND WEEKENDS AS REQUIRED TO PROVIDE UNINTERRUPTED HVAC SERVICE DURING NORMAL BUSINESS HOURS



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GLENN FRIEDMAN
No. M22870
MECHANICAL
STATE OF CALIFORNIA

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EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

Issue

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Drawn By	AW/LVR
Checked By	GAF
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Scale	3/16" = 1'-0"

Reference North

Drawing Title

HVAC ROOF PLAN

M2.04

Sheet

11/5/2021 5:27:12 PM

ROOF AND PENTHOUSE WORK SHALL BE PERFORMED DURING PHASE 2 AND/OR PHASE 3 AT THE CONTRACTOR'S OPTION
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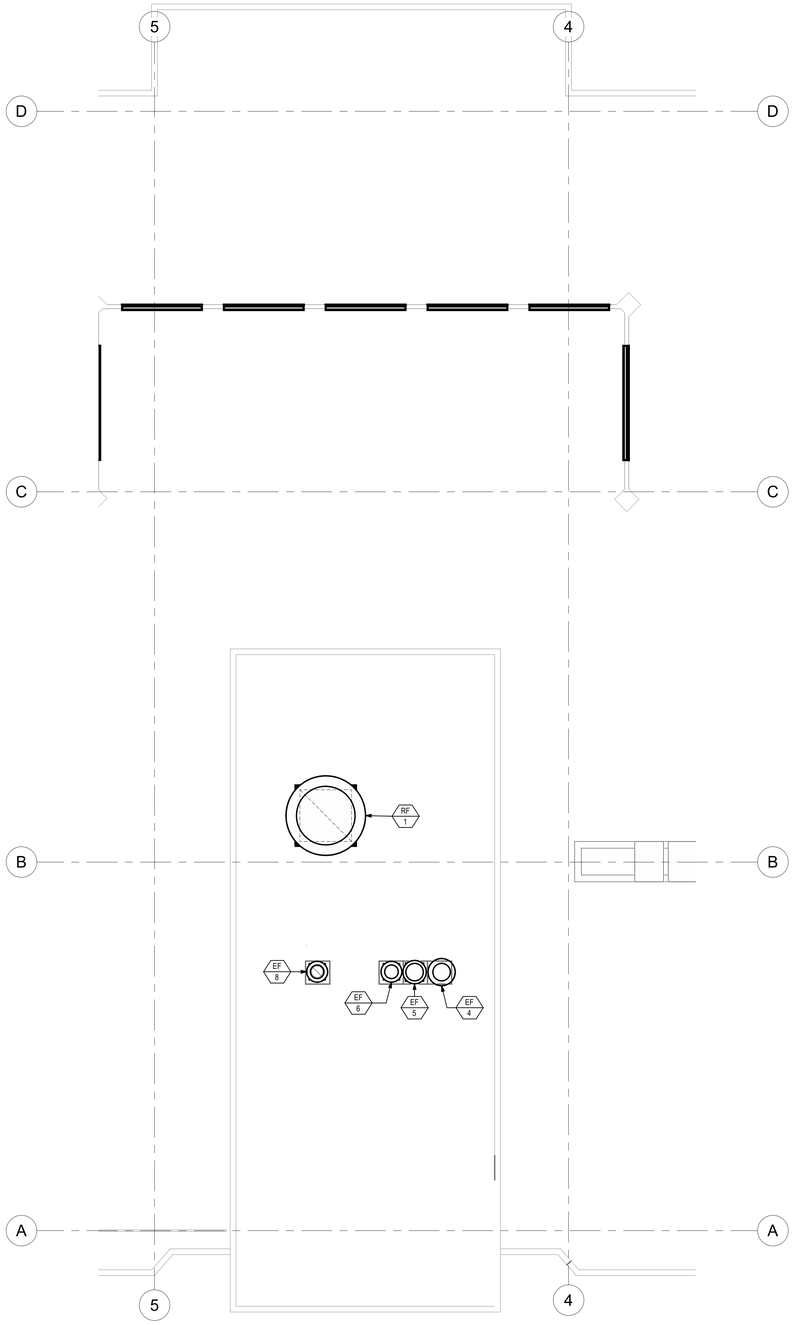

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GLENN FRIEDMAN
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Reference North

Drawing Title

HVAC PENTHOUSE ROOF PLAN

Sheet

M2.05

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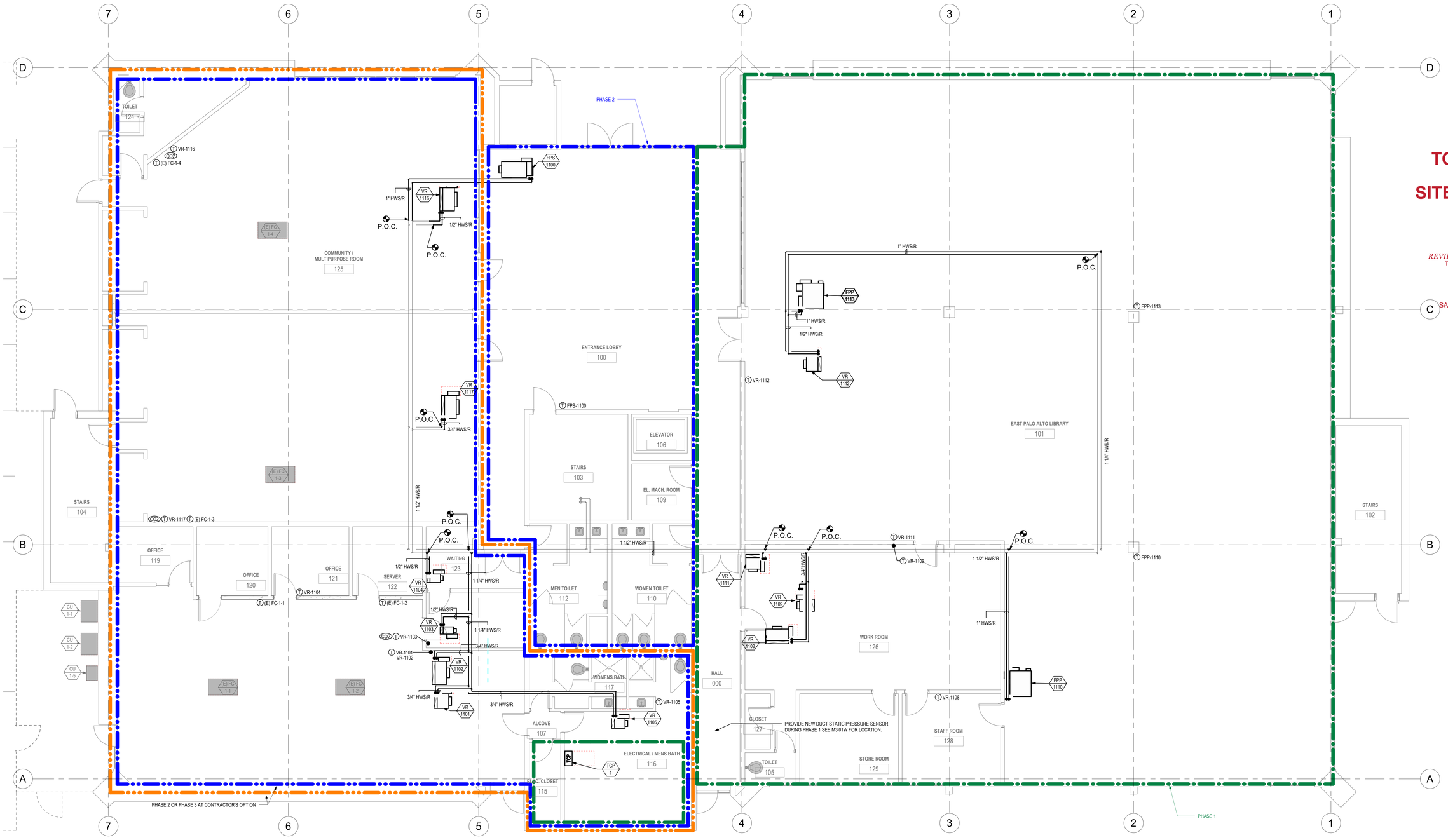

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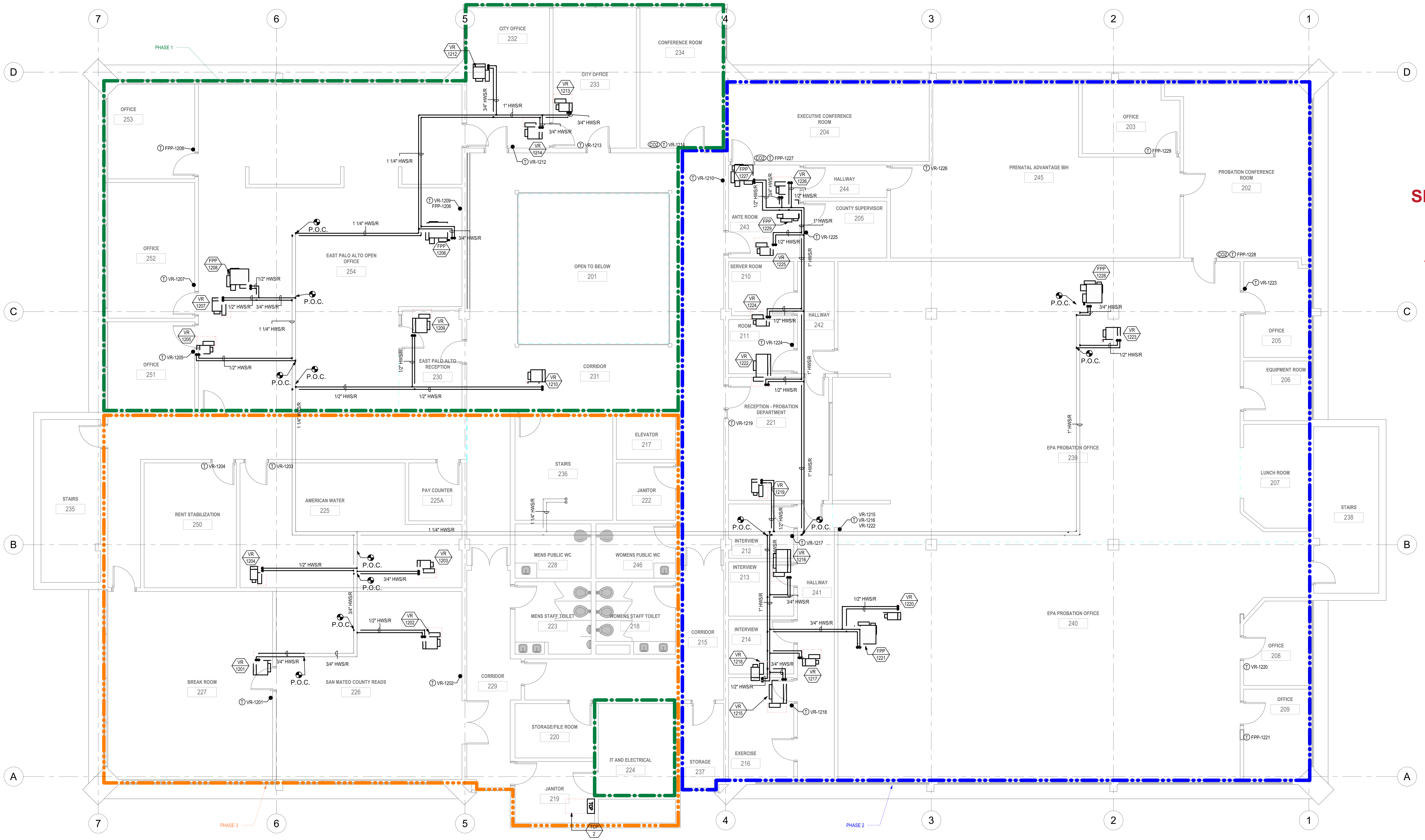
Drawing Title

LEVEL 01 HVAC PIPING AND CONTROLS PLAN

M3.01P

Sheet

11/5/2021 5:27:17 PM



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Job. No. 1919
Scale 3/16" = 1'-0"

Reference North

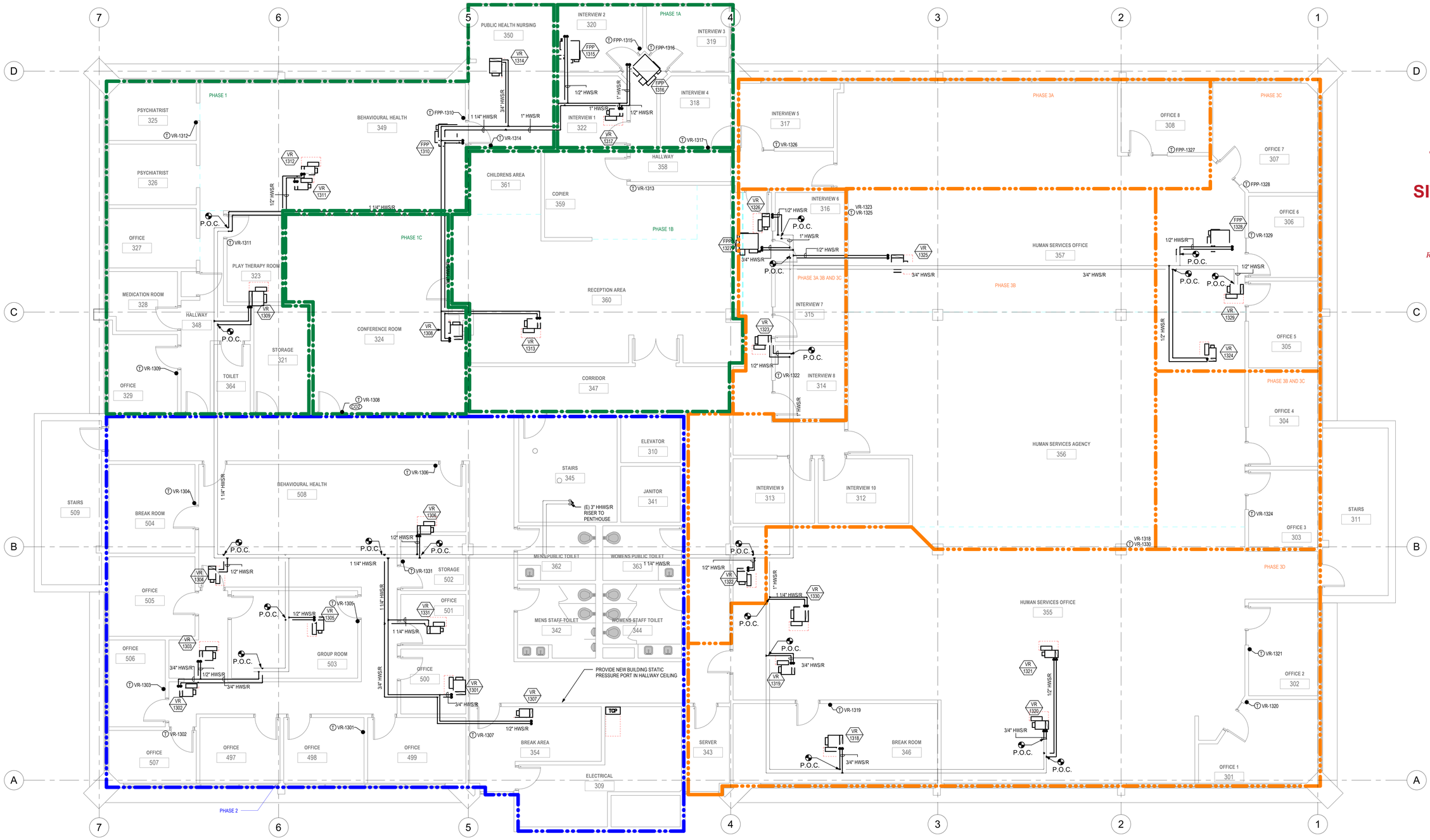
Drawing Title

LEVEL 02 HVAC PIPING AND CONTROLS PLAN

M3.02P

Sheet

11/5/2021 5:27:19 PM



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Job. No.	1919
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Reference North

Drawing Title

LEVEL 03 HVAC PIPING AND CONTROLS PLAN

M3.03P

Sheet

11/5/2021 5:27:21 PM

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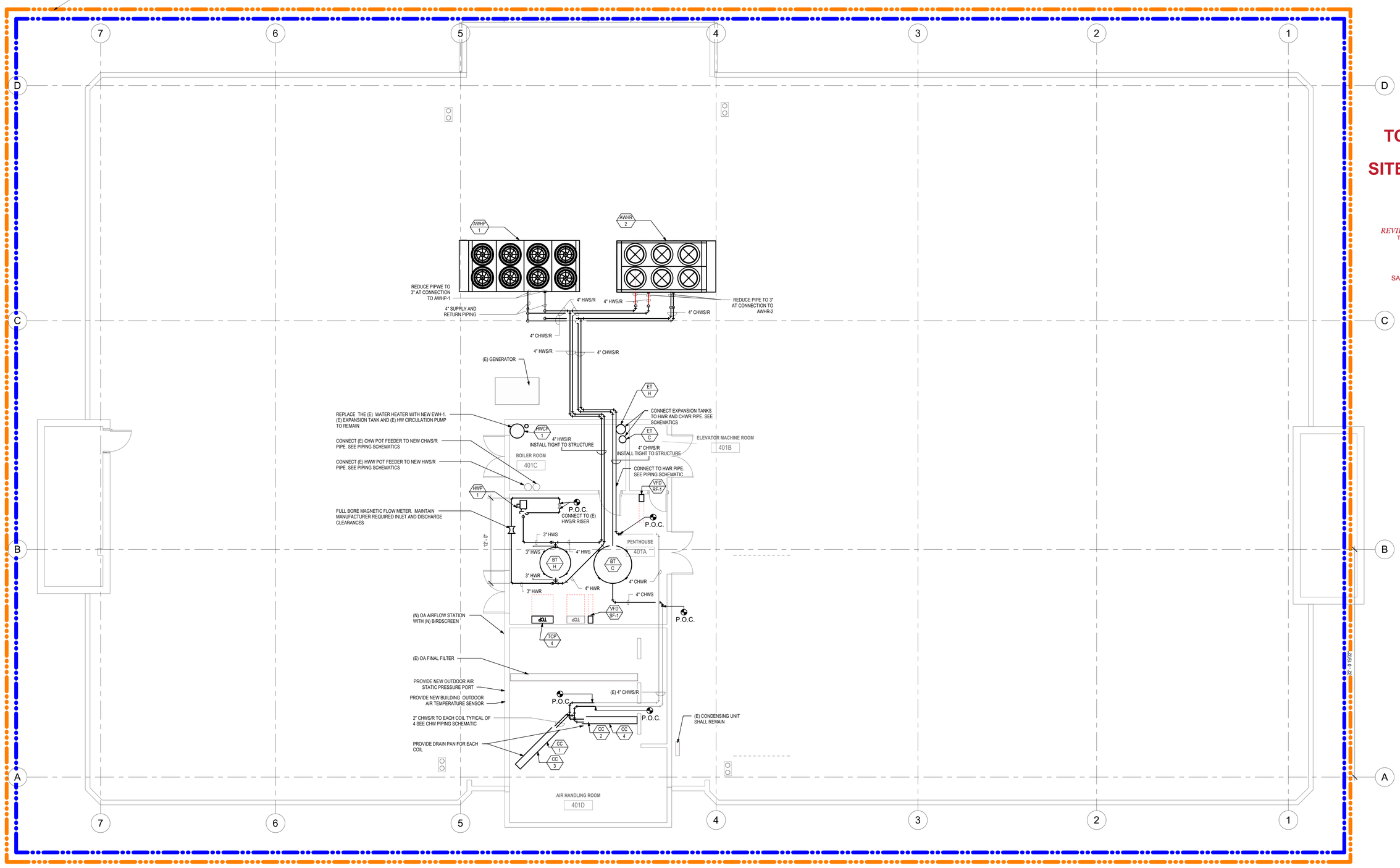

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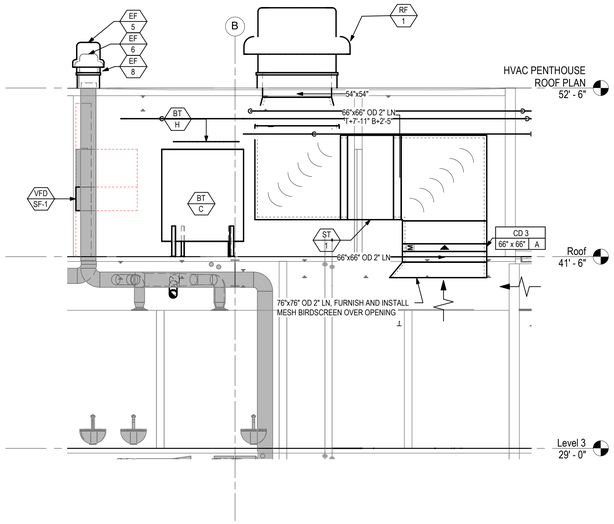
Drawing Title

HVAC AND PLUMBING ROOF PLAN

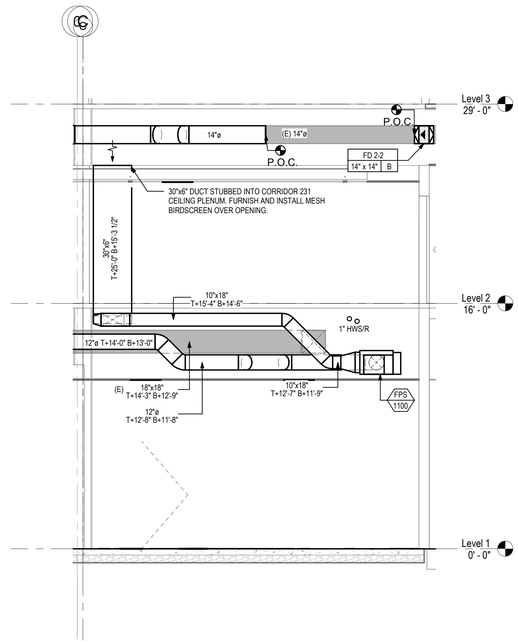
M3.04

Sheet

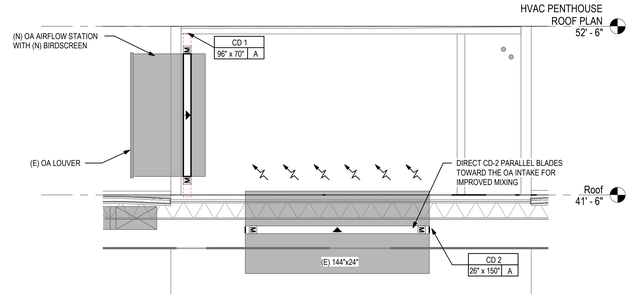
11/5/2021 5:27:46 PM



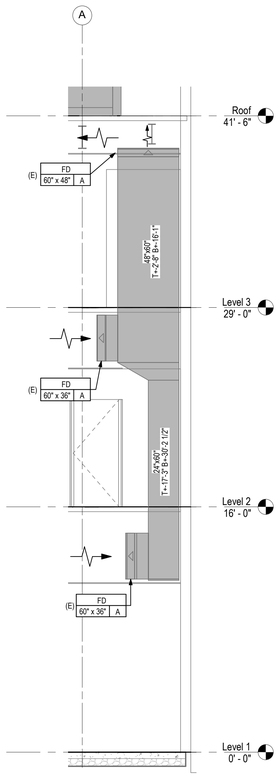
1 RELIEF FAN SECTION
1/4" = 1'-0"



2 ENTRANCE LOBBY SERIES FAN DUCT WORK SECTION
1/4" = 1'-0"



3 PENTHOUSE MIXED AIR SECTION
1/4" = 1'-0"



4 RETURN AIR DUCTWORK SECTION
1/4" = 1'-0"

11/5/2021 5:27:51 PM

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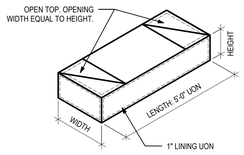
Scale	AS NOTED

Drawing Title

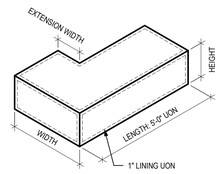
HVAC SECTIONS AND ISOMETRICS

M3.10

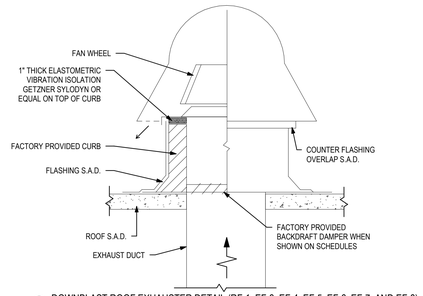
Sheet



1 SOUND BOOT



2 L SOUND BOOT



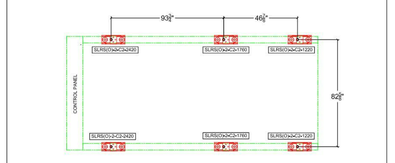
3 DOWNBLAST ROOF EXHAUSTER DETAIL (RF-1, EF-3, EF-4, EF-5, EF-6, EF-7, AND EF-8)

MASON INDUSTRIES, Inc.
Manufacturers of Vibration Control Products
350 Rabro Drive, Hauppauge, NY 11788, 516/348-0282, FAX 516/348-0279
2101 W. Crescent Ave., Suite D, Anaheim, CA 92801, 714/535-2727, FAX 714/535-5738

CERTIFIED FOR
JOB NAME: EAST PALO ALTO GOVERNMENT CTR.
CUSTOMER: TAYLOR ENGINEERING
CUSTOMER P.O.: JOB NO.:
MASON E.O.: 35371 DWG. NO.: WF-35371-01
REQUIRED: (1) TAG: NRB0900HAJ700

TYPE: WFSL BASE

UNIT: AERMEC NRB0900HAJ700 ISOLATOR REF. DWG.: WA-1472
EQUIPMENT WT.: 8731 LBS



PLAN VIEW OF ISOLATOR LAYOUT

DWN	CHKD	DATE
LD		8/30/21

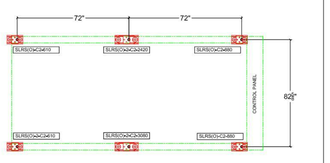
DWG. NO. WF-35371-01
REV: 8/31/21 LD

MASON INDUSTRIES, Inc.
Manufacturers of Vibration Control Products
350 Rabro Drive, Hauppauge, NY 11788, 516/348-0282, FAX 516/348-0279
2101 W. Crescent Ave., Suite D, Anaheim, CA 92801, 714/535-2727, FAX 714/535-5738

CERTIFIED FOR
JOB NAME: EAST PALO ALTO GOVERNMENT CTR.
CUSTOMER: TAYLOR ENGINEERING
CUSTOMER P.O.: JOB NO.:
MASON E.O.: 35371 DWG. NO.: WF-35371-02
REQUIRED: (1) TAG: NRP0900A470000

TYPE: WFSL BASE

UNIT: AERMEC NRP0900A470000 ISOLATOR REF. DWG.: WA-1472
EQUIPMENT WT.: 8289 LBS



PLAN VIEW OF ISOLATOR LAYOUT

DWN	CHKD	DATE
LD		8/30/21

DWG. NO. WF-35371-02
REV: 8/31/21 LD

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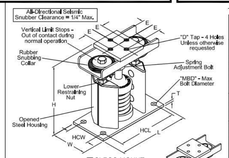
2101 W. Crescent Ave., Suite D, Anaheim, CA 92801, 714/535-2727, FAX 714/535-5738
ELEX 96-8464

SLRS(O) SEISMIC SPRING MOUNT
2" DEFLECTION
B, B2, C2, & 2-C2 SERIES

DRAWING NO. WA-1472

All Directional Seismic Snubber Clearance ¼" Max.



DERATED CAPACITY

Size	Spring Derated Capacity (lbs)	Defl. (in)
B2-450	410	1.83
B2-650	565	1.67
C2-880	800	1.82
C2-1210	1010	1.67
C2-1540	1285	1.67
C2-1870	1560	1.67
2-C2-1760	1600	1.67
2-C2-2420	2030	1.67
2-C2-3080	2570	1.67
2-C2-3740	3120	1.67

SPRING DATA

Size	Spring OD (in)	Free HL (in)	Ratio Ka/Ky	Ratio OD/DH
B	2 3/8	4	0.55-0.65	0.35-1.00
B2	2 3/8	4 1/2	0.80-0.90	1.15-1.48
C2	2 7/8	5	0.63-0.85	0.80-1.15

TYPE SLRS(O) DIMENSIONS (inches)

Size	L	W	H	T	MSD	HCW	HCL	D	E
SLRS(O)-B & B2	8 1/2	4 1/4	8 5/8	1/4	5/8	2 3/4	7	1/2	1 1/8
SLRS(O)-C2	9 1/2	5 1/4	8 5/8	1/4	5/8	3 1/2	7 1/2	5/8	1 3/8
SLRS(O)-2-C2	14	5 1/4	8 5/8	1/4	5/8	3 1/2	12 1/4	5/8	1 3/8

Illustrations above show SLRSO-C2 and SLRS-C2 with 1 spring. SLRS(O)-2-C2 has 2 springs. All springs without " * " have additional travel to solid equals to 50% of the rated deflection. All springs with " * " have additional travel to solid equals to 25% of the rated deflection. For a full 50% specified minimum, use ratings shown in the Derated Capacity table above.

Load curves per California OSHPD OPA criteria

To use seismic rated load curves:

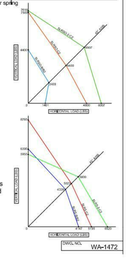
1. Calculate Vertical and Horizontal Forces on mountings including translations and overturning moments.
2. Plot Horizontal and Vertical Loads. The intersection must fall within the area below the load curve.

Material Finish:
- ☐ Powder Coated
- ☐ Hot Dipped Galvanized

TYPE SLRS(O) RATINGS

Size	Spring Rated Capacity (lbs)	Spring Rated Defl. (in)	Spring Constant (lb/in)	Spring Color
SLRS(O)-B-20	20	2.40	8	Tan
SLRS(O)-B-26	26	2.18	12	White/Blu
SLRS(O)-B-35	35	2.20	16	Purple
SLRS(O)-B-50	50	2.20	24	White/Red
SLRS(O)-B-65	65	2.10	31	Brown
SLRS(O)-B-85	85	2.10	40	White/Blk
SLRS(O)-B-115	115	2.00	57	Silver
SLRS(O)-B-150	150	2.00	75	Orange
SLRS(O)-B2-210	210	2.12	99	Silver
SLRS(O)-B2-290	290	2.00	144	Blue
SLRS(O)-B2-450**	450	2.00	225	Tan
SLRS(O)-B2-650**	680	2.00	340	Gray
SLRS(O)-C2-125	125	2.50	50	Purple
SLRS(O)-C2-170	170	2.40	70	Brown
SLRS(O)-C2-220	220	2.40	90	White
SLRS(O)-C2-260	260	2.20	120	White
SLRS(O)-C2-330	330	2.00	165	Black
SLRS(O)-C2-460	460	2.00	230	Blue
SLRS(O)-C2-610	610	2.00	305	Green
SLRS(O)-C2-880**	880	2.00	440	Gray
SLRS(O)-C2-1210**	1210	2.00	605	Silver
SLRS(O)-C2-1540**	1540	2.00	770	Gray*
SLRS(O)-C2-1870**	1870	2.00	935	Gray*
SLRS(O)-2-C2-220	1220	2.00	610	Green
SLRS(O)-2-C2-1760**	1760	2.00	880	Gray
SLRS(O)-2-C2-2420**	2420	2.00	1210	Silver
SLRS(O)-2-C2-3080**	3080	2.00	1540	Gray*
SLRS(O)-2-C2-3740**	3740	2.00	1870	Silver*

* with RED inner spring



DWN	CHKD	DATE
LD	GR	12/14/18

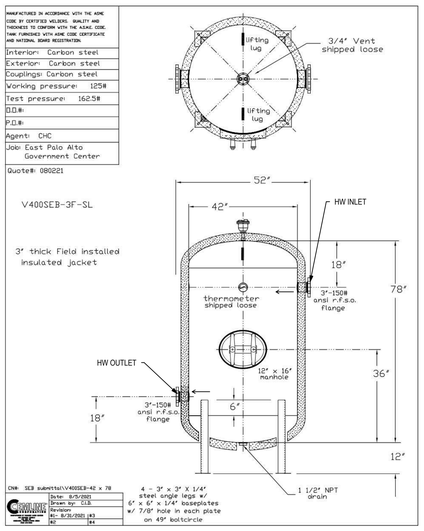
DWG. NO. WA-1472

4 HEAT PUMP VIRBATION ISOLATION

MANUFACTURED IN ACCORDANCE WITH THE ASME CODE BY CERTIFIED WELDERS. QUALITY AND THICKNESS TO CONFORM WITH THE A.S.M.E. CODE. TANK FURNISHED WITH ASME CODE CERTIFICATE AND NATIONAL BOARD REGISTRATION.

Interior:	Carbon steel
Exterior:	Carbon steel
Couplings:	Carbon steel
Working pressure:	125#
Test pressure:	162.5#
O.O.#:	
P.O.#:	
Agent:	CHC
Job:	East Palo Alto Government Center

Quote#: 080221



CHW SEB submittals\V400SEB-42 x 78

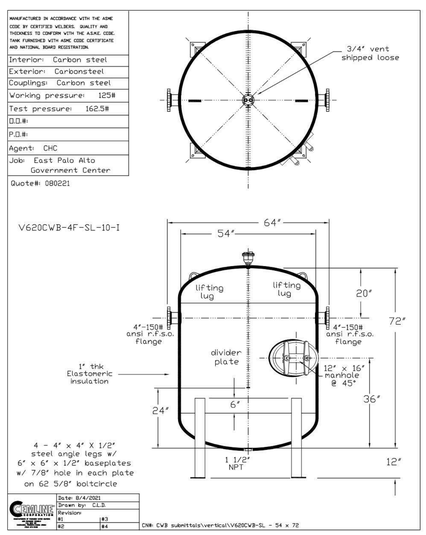
Date:	8/5/2021
Drawn by:	CLS
Revision	
#1- 8/25/2021	#3
#2	#4

5 HW BUFFER TANK

MANUFACTURED IN ACCORDANCE WITH THE ASME CODE BY CERTIFIED WELDERS. QUALITY AND THICKNESS TO CONFORM WITH THE A.S.M.E. CODE. TANK FURNISHED WITH ASME CODE CERTIFICATE AND NATIONAL BOARD REGISTRATION.

Interior:	Carbon steel
Exterior:	Carbonsteel
Couplings:	Carbon steel
Working pressure:	125#
Test pressure:	162.5#
O.O.#:	
P.O.#:	
Agent:	CHC
Job:	East Palo Alto Government Center

Quote#: 080221



CHW CWB submittals\vertical\V620CWB-SL - 54 x 72

Date:	8/4/2021
Drawn by:	CLS
Revision	
#1	#3
#2	#4

6 CHW BUFFER TANK

11/5/2021 5:27:53 PM

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1080 Marina Village Parkway, Suite 501
Alameda, CA 94501-6427
Phone: (510) 749-9135

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REGISTERED PROFESSIONAL ENGINEER GLENN FRIEDA EXP. 08/31/22 MECHANICAL

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

Apr 30 2022

SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

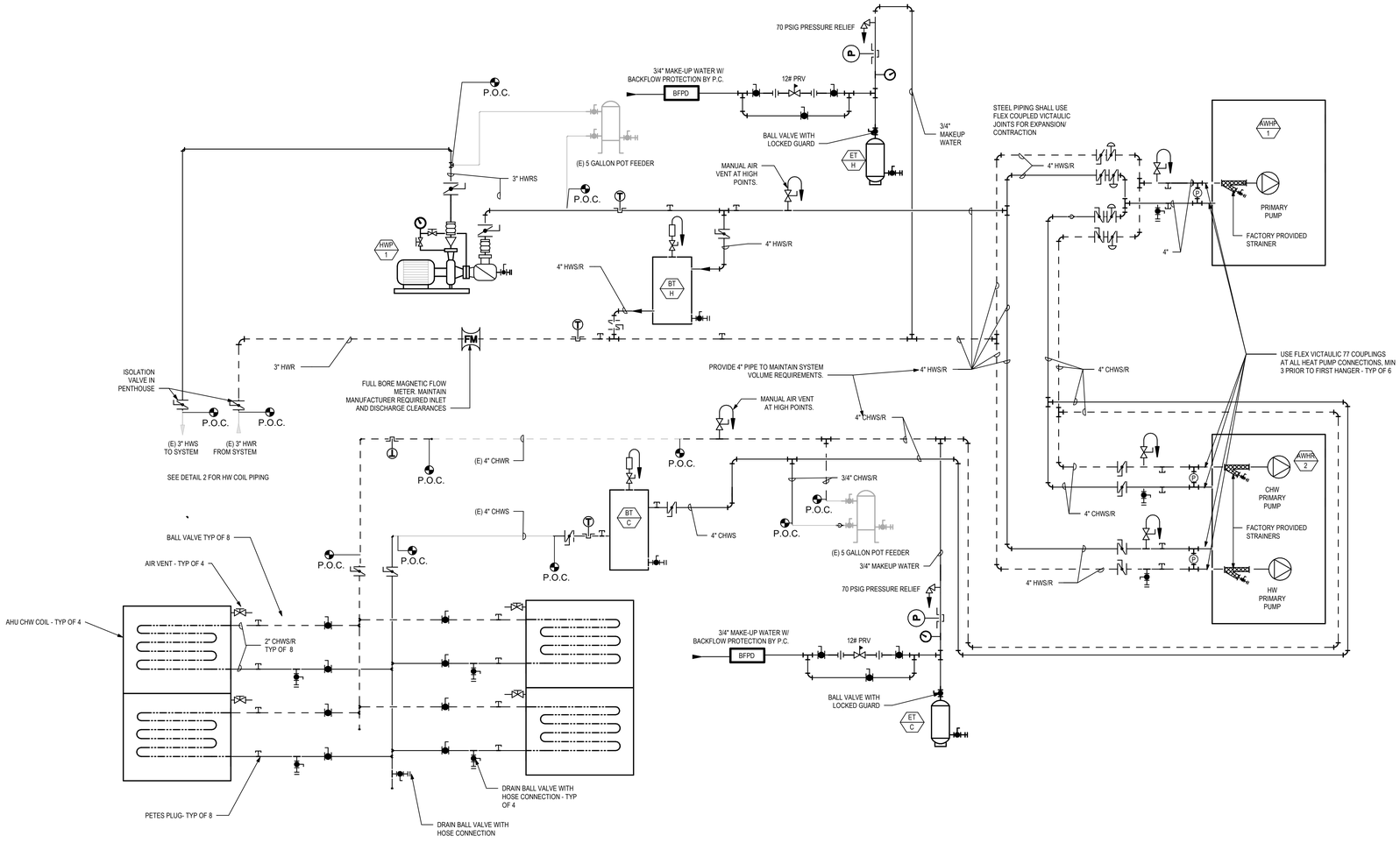
Issue

Rev	Date	Description
	11/5/2021	Permit Submittal
	9/06/2022	Issued for Bid

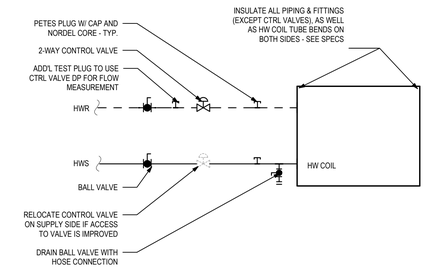
Drawn By	AW/LVR
Checked By	GAF
Job. No.	1919
Scale	NO SCALE

Drawing Title
HVAC DETAILS

M4.01
Sheet



1 HW/CHW PIPING SCHEMATIC



2 HW COIL PIPING

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No. M28870
Exp. 09/30/22
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STATE OF CALIFORNIA

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Drawn By	AW
Checked By	GAF
Job. No.	1919
Scale	1/4" = 1'-0"

Drawing Title

PIPING SCHEMATICS

M5.01

Sheet

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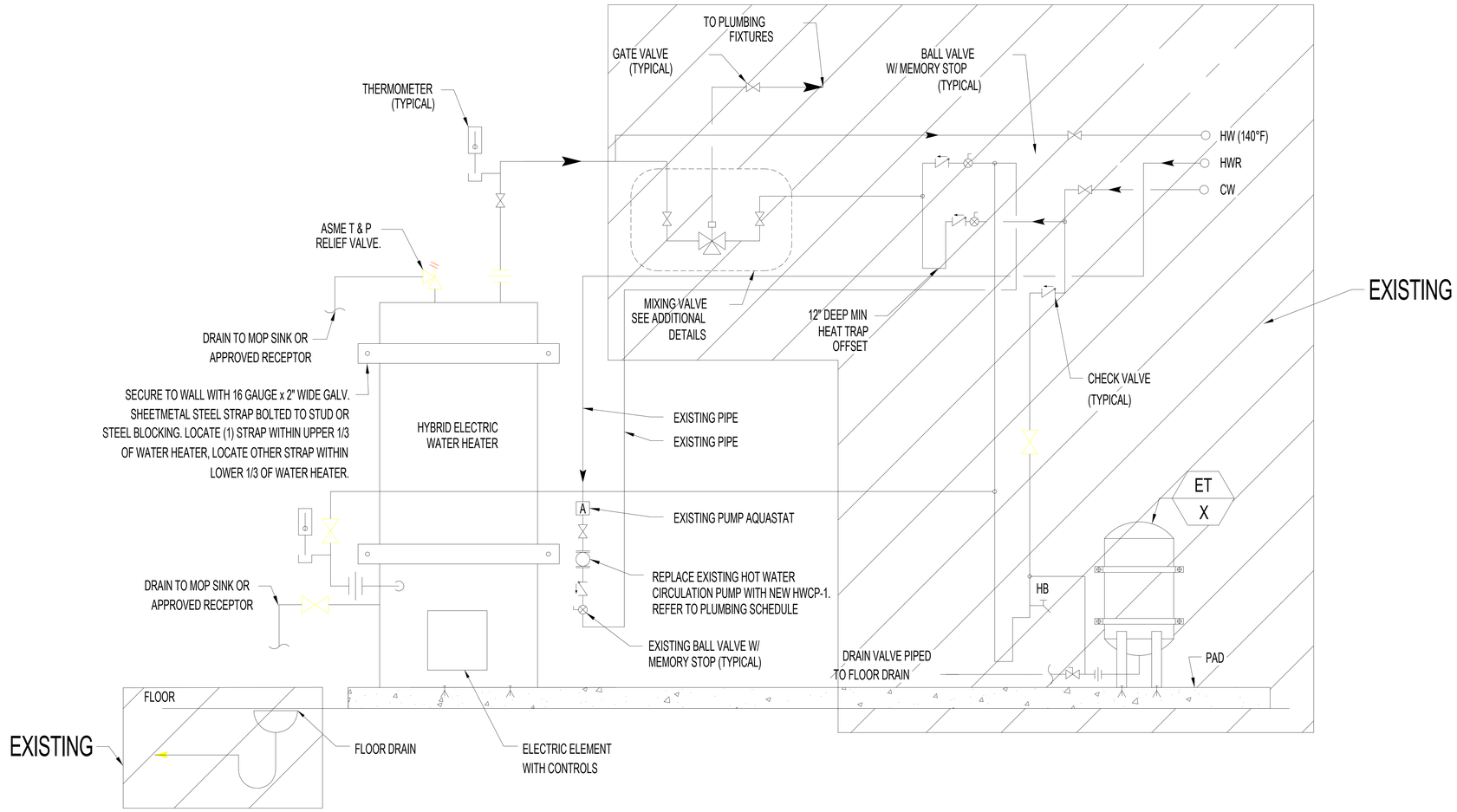

1 WATER HEATER DETAIL

ELECTRIC WATER HEATER

11/5/2021 5:27:54 PM

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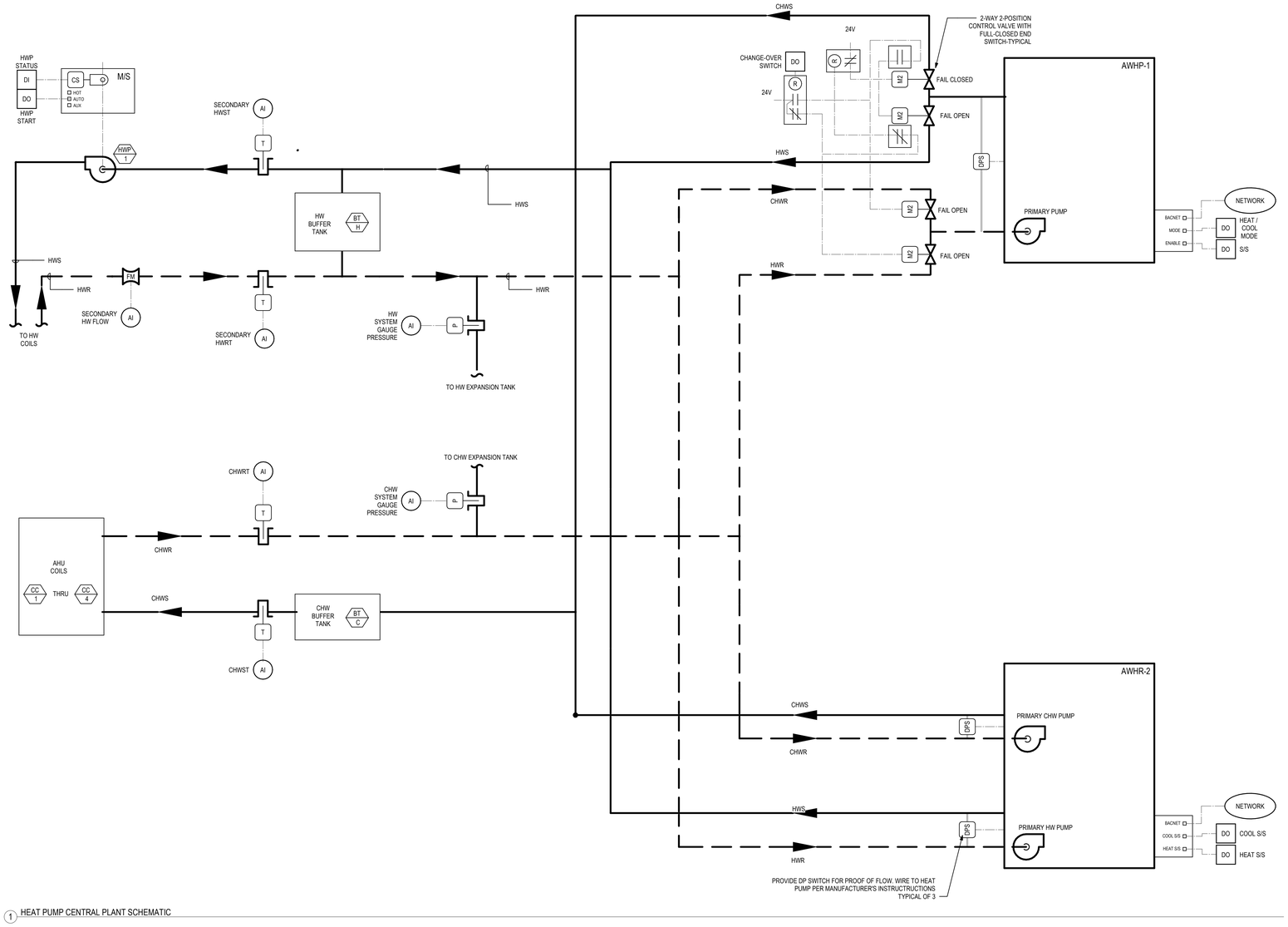
Drawn By	AS
Checked By	GAF
Job. No.	1919
Scale	NO SCALE

Drawing Title

PLUMBING SCHEMATICS

P5.02

Sheet



1 HEAT PUMP CENTRAL PLANT SCHEMATIC

CONTROLS

GENERAL

- SA — SUPPLY AIR
- OA — OUTSIDE AIR
- RA — RETURN AIR
- EA — EXHAUST AIR

EQUIPMENT

- 2-WAY VALVE
- 3-WAY VALVE
- SD — SMOKE DETECTOR
- FAN-PROP
- CENTRIFUGAL HOUSED FAN
- FAN-PLUG
- FAN ARRAY
- PUMP
- INLINE PUMP
- FURNACE
- FILTER
- AIR FLOW STATION
- C / C — COIL
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- BAROMETRIC DAMPER
- VAV DAMPER
- ENABLE / RUN / SPEED / NETWORK / VFD — VARIABLE SPEED DRIVE
- ENABLE / STATUS / SETPOINT — CONTROLLER
- M/S, CS, HOT / AUTO / AUX — MOTOR STARTER

CONTROLS

EQUIPMENT (CONTD)

- CONTACT (BOXED)
- CONTACT (UNBOXED)
- R — RELAY (1 CONTACT)
- R — RELAY (2 CONTACTS)
- SWITCH
- ACCUVALVE
- HX — HEAT EXCHANGER
- R — LIGHT

SENSORS

- STATIC PRESSURE TIP
- AFS FAN
- SENSOR WELL
- T — TEMPERATURE SENSOR & SENSOR WELL
- RH / T — HUMIDITY SENSOR (RH) OR TEMPERATURE SENSOR (T)
- T — AVERAGING TEMPERATURE SENSOR
- M — MODULATING ACTUATOR
- M2 — 2-POSITION ACTUATOR

DIGITAL POINT

- DO — HARDWIRED DIGITAL OUTPUT (DO) OR DIGITAL INPUT (DI)

ANALOG POINT

- AO — HARDWIRED ANALOG OUTPUT (AO) OR ANALOG INPUT (AI)
- NETWORK — NETWORK CONNECTION BETWEEN CONTROLLER AND DEVICE
- FLOW CROSS
- FM — FLOW METER
- CS — CURRENT SWITCH

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Job. No.	1919
Scale	As indicated

Drawing Title

HVAC CONTROL SCHEMATICS

BAS0.01

Sheet

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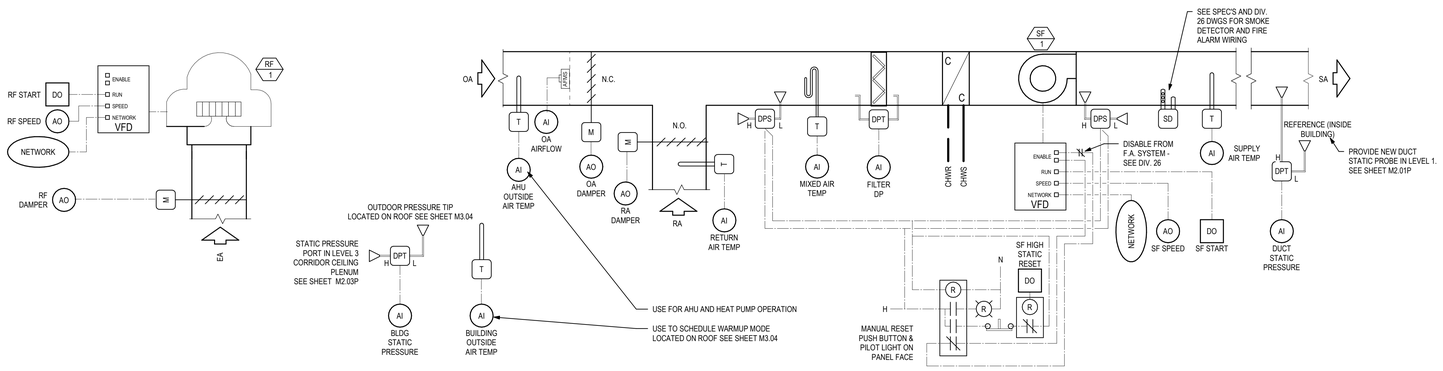
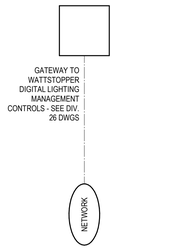
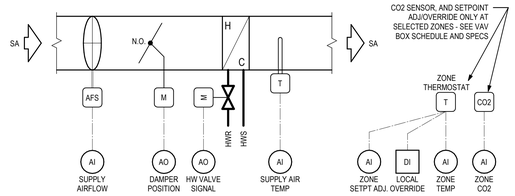


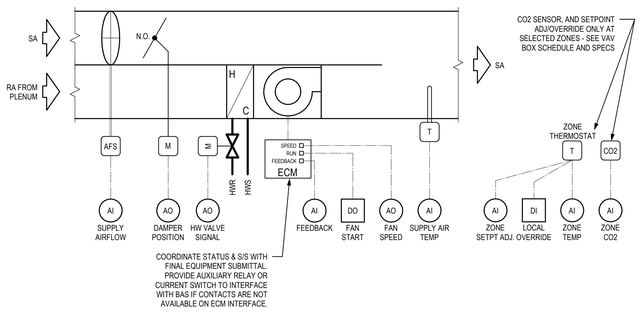
1 AIR HANDLING UNIT SF-1 AND RF-1



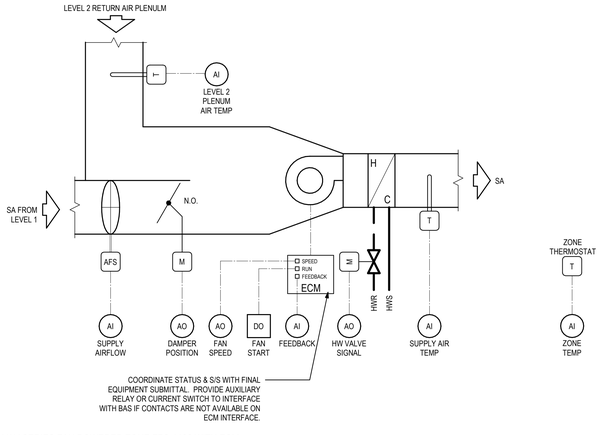
2 LIGHTING CONTROL INTEGRATION



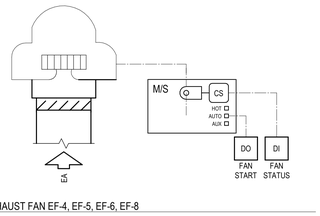
3 VAV REHEAT ZONE



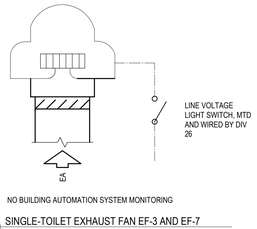
4 VAV PARALLEL FAN POWERED ZONE WITH ECM



5 VAV SERIES FAN POWERED ZONE FPS-1106 WITH ECM



6 TOILET EXHAUST FAN EF-4, EF-5, EF-6, EF-8



NO BUILDING AUTOMATION SYSTEM MONITORING

7 SINGLE-TOILET EXHAUST FAN EF-3 AND EF-7

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Apr 30 2022

SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

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East Palo Alto, CA 94303

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Drawn By	AW
Checked By	GAF
Job. No.	1919
Scale	1/8" = 1'-0"

Drawing Title

HVAC CONTROL SCHEMATICS

BAS0.02

Sheet

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SYMBOLS LIST

SOME OF THESE SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT

POWER DISTRIBUTION

- SWITCHGEAR, SWITCHBOARD, DISTRIBUTION BOARD, SUBSTATION OR MOTOR CONTROL CENTER, FLOOR MOUNTED. DOUBLE LINE INDECATES FRONT FACE OF GEAR.
- PANELBOARD, 277/480V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 277/480V, FLUSH MOUNTED IN WALL.
- PANELBOARD, 120/208V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 120/208V, FLUSH MOUNTED IN WALL.
- DRY-TYPE STEP-DOWN TRANSFORMER, FLOOR MOUNTED 480-120/208V 3Ø, UON. DOUBLE LINE INDICATES FRONT FACE OF TRANSFORMER.
- ELECTRIC MOTOR, NIEC. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.
- (F) INDOOR EXHAUST FAN MOTOR, SINGLE PHASE. MAKE POWER CONNECTIONS TO INCLUDE JUNCTION BOX MOUNTED MANUAL MOTOR STARTER AND DISCONNECT ADJACENT TO FAN WITH 2 #12 CONDUCTORS PLUS GROUND IN 1/2" FLEXIBLE CONDUIT BETWEEN STARTER AND MOTOR.
- (V) INDOOR FAN POWERED VAV BOX MOTOR, SINGLE PHASE, MOUNTED FROM STRUCTURE ABOVE, NIEC. MAKE POWER CONNECTIONS TO INCLUDE JUNCTION BOX MOUNTED MANUAL MOTOR STARTER AND DISCONNECT ADJACENT TO VAV BOX WITH 2 #12 CONDUCTORS PLUS GROUND IN 1/2" FLEXIBLE CONDUIT BETWEEN STARTER AND MOTOR.
- (D) 2 MOTOR OPERATED FIRE/SMOKE DAMPER 'FSD', NIEC. SYMBOL DENOTES INTERFACE FOR POWER CONNECTIONS. ALSO, INCLUDES LOCAL POWER DISCONNECT MEANS. ADJACENT NUMBER INDICATES QUANTITY OF ACTUATORS REQUIRING CONNECTION PER FSD, IF MORE THAN 1.
- COMBINATION EXHAUST FAN AND DOWNLIGHT FIXTURE, CEILING MOUNTED. FAN AND LIGHT SHALL BE CONTROLLED SEPARATELY.
- P PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- A AF SAFETY DISCONNECT SWITCH, 3 POLE, UON. ADJACENT NUMBER INDICATES FUSE SIZE WHEN APPLICABLE. LABELING CONVENTION AS FOLLOWS:

A: 30A, NON-FUSED	AF: 30A, FUSED
B: 60A, NON-FUSED	BF: 60A, FUSED
C: 100A, NON-FUSED	CF: 100A, FUSED
D: 200A, NON-FUSED	DF: 200A, FUSED
E: 400A, NON-FUSED	EF: 400A, FUSED
F: 600A, NON-FUSED	FF: 600A, FUSED
G: 800A, NON-FUSED	GF: 800A, FUSED

- 1 MAGNETIC MOTOR STARTER. ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
- 1 COMBINATION MAGNETIC MOTOR STARTER WITH OVERCURRENT PROTECTION DISCONNECT. ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
- PACKAGE MOTOR CONTROLLER OR STARTER FURNISHED AND INSTALLED UNDER ANOTHER DIVISION WITH EQUIPMENT CONTROLLED. PROVIDE SINGLE-POINT POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- VFD VARIABLE FREQUENCY DRIVE FURNISHED UNDER ANOTHER DIVISION. INSTALL VFD AND PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- VFD VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT FURNISHED UNDER ANOTHER DIVISION. INSTALL VDF AND PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- ECM ELECTRONICALLY COMMUTATED MOTOR CONTROLLER FURNISHED UNDER ANOTHER DIVISION. PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- ECM ELECTRONICALLY COMMUTATED MOTOR CONTROLLER WITH INTEGRAL CIRCUIT BREAKER FURNISHED UNDER ANOTHER DIVISION. PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- DRIVEN GROUND ROD.
- DRIVEN GROUND ROD IN GROUND WELL WITH COVER.
- ELECTRICAL VEHICLE CHARGING STATION, WALL MOUNTED.
- ELECTRICAL VEHICLE CHARGING STATION, PEDESTAL MOUNTED.
- CABLE TO BUS TERMINATION LUGS.
- BOLTED PRESSURE OR HIGH PRESSURE CONTACT OR FUSED SWITCHES.
- GROUP MOUNTED MOLDED CASE CIRCUIT BREAKER.
- INDIVIDUALLY FIXED MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
- INDIVIDUALLY DRAW-OUT MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
- 52 MEDIUM-VOLTAGE, INDIVIDUALLY DRAW-OUT MOUNTED VACUUM CIRCUIT BREAKER.
- MEDIUM-VOLTAGE LOAD INTERRUPTER SWITCH, FUSED TYPE.
- MEDIUM-VOLTAGE LOAD INTERRUPTER SWITCH, NON-FUSED TYPE.
- (G) GROUND FAULT RELAY INTEGRAL WITH CIRCUIT BREAKER.
- (EO) ELECTRICALLY OPERATED INTEGRAL.
- (ST) SHUNT-TRIP INTEGRAL WITH OVERCURRENT PROTECTION DEVICES.
- (K) 1 KIRK-KEY INTERLOCK INTEGRAL WITH OVERCURRENT PROTECTION DEVICES. ADJACENT NUMBER CORRESPONDS WITH DEVICE INTERLOCK.
- (M) PRIVATE METER, MOUNTED INTEGRAL WITH OVERCURRENT PROTECTION OR SEPARATE WITHIN SWITCHGEAR.
- (M) UTILITY METER, MOUNTED IN UTILITY METER SECTION OF SWITCHGEAR.
- M PRIVATE METER, MOUNTED IN SEPARATE ENCLOSURE FROM SWITCHGEAR.
- (GFR) GROUND FAULT RELAY WITH SHUNT TRIP.
- (GFA) GROUND FAULT ALARM, NO SHUNT TRIP.
- TRANSFORMER.
- CONNECTION TO GROUND.
- CURRENT TRANSFORMERS.
- POTENTIAL TRANSFORMERS.
- AUTOMATIC OR MANUAL TRANSFER SWITCH.
- AUTOMATIC TRANSFER & BY-PASS ISOLATION SWITCH.
- (G) EMERGENCY GENERATOR.
- BATTERIES.
- NEUTRAL SERVICE DISCONNECT LINK.
- SPD SURGE PROTECTION DEVICE, 'SPD'.
- (C) CONTROL CONTACTOR.
- NORMALLY OPEN CONTACT.
- NORMALLY CLOSED CONTACT.
- DMU DIGITAL METERING UNIT.
- GND GROUND BUS.
- NEU NEUTRAL BUS.

WIRING DEVICES

- JUNCTION BOX, WALL MOUNTED, +18" UON.
- JUNCTION BOX, MOUNTED IN FLUSH FLOOR BOX.
- J JUNCTION BOX, MOUNTED FLUSH IN CEILING.
- JUNCTION BOX, SURFACE OR PENDANT MOUNTED TO STRUCTURE IN ACCESSIBLE CEILING SPACE.
- JUNCTION BOX, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
- SINGLE-PLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON. ADJACENT LETTERING DENOTED BELOW APPLY TO ALL RECEPTACLE DEVICES WHEN SHOWN ON DRAWINGS.
  - A: ARC FAULT CURRENT INTERRUPTER (AFCI)
  - G: GROUND FAULT CURRENT INTERRUPTER (GFCI)
  - IG: ISOLATED GROUND
  - U: INTEGRAL USB PORTS
  - WP: WEATHER-RESISTANT, GROUND FAULT CURRENT INTERRUPTER (GFCI) WITH WEATHERPROOF "IN USE" COVER
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH UON, BUT NO HIGHER THAN ADA REQUIREMENTS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, SPLIT-WIRED, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, ON EMERGENCY POWER, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, CONTROLLED PER T24, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, HORIZONTALLY WALL MOUNTED, +18" UON.
- SPECIALTY OUTLET DEVICE, NEMA CONFIGURATION TYPE AS NOTED ON PLANS, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
- COMBINATION POWER/TELECOMMUNICATION DEVICE, MOUNTED IN FLUSH FLOOR BOX. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, CORD OR REEL HUNG FROM STRUCTURE ABOVE. TYPE AS NOTED ON PLANS.
- ELECTRIFIED FURNITURE PARTITION POWER FEED, WALL MOUNTED, +18" UON. CONSISTS OF 4 11/16" SQ. X 2 1/8" DEEP JUNCTION BOX, SINGLE GANG RING, AND STAINLESS STEEL COVER PLATE WITH KO TO ACCEPT FURNITURE WHIP.
- ELECTRIFIED FURNITURE PARTITION COMBINATION POWER/TELECOMMUNICATION FEEDS, MOUNTED IN FLUSH FLOOR BOX WITH KO'S IN COVER TO ACCEPT FURNITURE WHIPS
- ELECTRIFIED FURNITURE PARTITION POWER FEED, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING WITH KO IN COVER TO ACCEPT FURNITURE WHIP.
- POWER/TELECOMMUNICATION POLE, MOUNTED TO EXTEND FROM FLOOR TO CEILING. TYPE AS NOTED ON PLANS.
- S^{T} SINGLE-POLE, MANUAL DISCONNECT SWITCH WITH THERMAL OVERLOAD ELEMENT, MOUNTED ADJACENT TO MOTOR.
- S^{MS} SINGLE-POLE, FRACTIONAL HORESPOWER, MOTOR STARTER/DISCONNECT SWITCH, MOUNTED ADJACENT TO MOTOR.
- S^{F} SWITCH FURNISHED UNDER ANOTHER DIVISION, BUT INSTALLED AND WIRED UNDER THIS DIVISION, WALL MOUNTED, +42" UON.
- LINE-VOLTAGE THERMOSTAT, NIEC, WALL MOUNTED +48" UON. INSTALLED AND WIRED BY ELECTRICAL.
- CONTROL STATION, WALL MOUNTED, +42" UON.

RACEWAYS

- CONDUIT RUN EXPOSED ON WALL OR CEILING.
- CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET. HOMERUN CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED UP, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED DOWN, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT CAPPED OR STUBBED WITH INSULATED BUSHINGS, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
- FLEXIBLE METALLIC CONDUIT, EQUIPMENT CONNECTION.
- CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS):
  1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
  2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
  3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
- TWO PIECE SURFACE RACEWAY; TYPE, DEVICE SPACING AND MOUNTING AS NOTED ON PLANS.
- CABLE TRAY, CABLE RUNWAY OR LADDER RACK SUSPENDED FROM STRUCTURE ABOVE. REFER TO PLANS FOR SIZE AND MOUNTING.

CONVENTIONS

- 1 NUMBERED NOTE, APPLIES TO ALL DRAWINGS.
- 1 NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
- (1) OVERCURRENT PROTECTIVE DEVICE SPACE IDENTIFICATION TAG. REFERS TO LOCATION OF PROTECTIVE OR CONTROL DEVICE WITHIN SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, ETC.
- (NAME) EQUIPMENT IDENTIFICATION TAG: ITEM FURNISHED AND INSTALLED UNDER ANOTHER SECTION AND WIRED UNDER THIS SECTION.
- 2004 FEEDER SIZE. REFER TO FEEDER SCHEDULE.
- 1 / E-801 DETAIL REFERENCE:
  - SHEET NUMBER
  - DETAIL DESIGNATION
- 2-F3 FIXTURE IDENTIFICATION TAG:
  - FIXTURE TYPE
  - QUANTITY
- 7S4 UNDERGROUND CONDUIT DESIGNATION
  - CONDUIT SIZE IN INCHES
  - CONDUIT SYSTEM DESIGNATION
    - P: PRIMARY POWER
    - S: SECONDARY POWER
    - T: TELECOMMUNCATIONS
  - QUANTITY OF CONDUITS

LIGHTING

- LUMINAIRE, RECESSED IN CEILING.
- LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- LUMINAIRE, WALL MOUNTED.
- STRIP LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- STRIP LUMINAIRE, SURFACE MOUNTED IN ARCHITECTURAL CEILING COVE.
- STRIP LUMINAIRE, SURFACE MOUNTED VERTICALLY ON WALL OR IN COVE.
- ROUND DOWNLIGHT LUMINAIRE, RECESSED IN CEILING.
- SQUARE DOWNLIGHT LUMINAIRE, RECESSED IN CEILING.
- DOWNLIGHT/INDUSTRIAL LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- ADJUSTABLE LUMINAIRE, RECESSED IN CEILING.
- ADJUSTABLE LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- LINEAR, MULTI-HEAD, ADJUSTABLE ACCENT LUMINAIRES, RECESSED IN CEILING.
- SINGLE DIRECTIONAL, WALLWASH LUMINAIRE, RECESSED IN CEILING.
- SINGLE DIRECTIONAL, WALLWASH LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- LINEAR WALLWASH LUMINAIRE, RECESSED IN CEILING.
- LINEAR WALLWASH LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- SCONCE LUMINAIRE, WALL MOUNTED.
- LED TAPE STRIP TYPE LUMINAIRE, MOUNTED LOOSE OR IN CHANNEL.
- DECORATIVE LUMINAIRE, PENDANT MOUNTED.
- X LINEAR TRACK SYSTEM WITH PLUG-IN ADJUSTABLE LUMINAIRE HEADS. TRACK SHALL BE EITHER RECESSED, SURFACE OR PENDANT MOUNTED TO CEILING AS NOTED IN FIXTURE SCHEDULE. 'X' NEXT TO JUNCTION BOX REPRESENTS INTEGRAL CURRENT LIMITER TRIP RATING.
- EXIT SIGN LUMINAIRE, CEILING OR WALL MOUNTED WITH DIRECTIONAL ARROWS AS NOTED ON PLANS. WORD 'EXIT' TO BE LOCATED IN SHADED FACE(S).
- COMBO EXIT SIGN AND EGRESS LUMINAIRE, CEILING OR WALL MOUNTED WITH ARROWS AS NOTED ON PLANS OR IN LUMINAIRE SCHEDULE.
- EMERGENCY SELF-POWERED BATTERY PACK WITH LUMINAIRE HEADS AS NOTED ON PLANS OR IN FLUMINAIRE SCHEDULE.
- SHADING OF ANY LUMINAIRE INDICATES CRITICAL/STANDBY LIGHTING.
- HALF SHADING OF ANY LUMINAIRE INDICATES EMERGENCY/EGRESS LIGHTING.
- SINGLE-HEAD AREA LUMINAIRE WITH BRACKET ARM AND POLE, MOUNTED TO CONCRETE BASE.
- TWO-HEAD AREA LUMINAIRES WITH BRACKET ARMS AND POLE, MOUNTED TO CONCRETE BASE.
- SINGLE-HEAD AREA POST-TOP LUMINAIRE WITH POLE, MOUNTED TO CONCRETE BASE.
- AREA LUMINAIRE, SURFACE OR RECESSED MOUNTED TO WALL.
- LUMINAIRE BOLLARD, MOUNTED TO CONCRETE BASE.
- GROUNDWELL LUMINAIRE MOUNTED FLUSH IN FINISHED GRADE.
- FLOODLIGHT LUMINAIRE, STANCHION MOUNTED ABOVE GRADE.
- LINEAR SIGN-LIGHT LUMINAIRE, STANCHION MOUNTED ABOVE GRADE.
- STEPLIGHT LUMINAIRE, WALL MOUNTED.
- MULTIPLE LUMINAIRES MOUNTED ON COMMON POLE.
- F.A.A OBSTRUCTION LUMINAIRE.

DIGITAL LIGHTING CONTROLS

- D SINGLE ZONE DIMMER SWITCH WITH ON/OFF/DIM CAPABILITIES, WALL MOUNTED, +42" UON.
- S SINGLE ZONE SWITCH WITH ON/OFF CAPABILITIES, WALL MOUNTED, +42" UON.
- SC SCENE OR MULTI-ZONE CONTROLLER WITH ON/OFF/DIM CAPABILITIES ZONE, WALL MOUNTED, +42" UON.
- DS DAYLIGHT HARVESTING SENSOR, CEILING MOUNTED.
- M OCCUPANCY SENSOR, CEILING MOUNTED FOR AREA COVERAGE.
- PLC PLUG LOAD CONTROLLER, UL LISTED FOR CONTROLLING RECEPTACLES, 20A RATED.
- M LIGHTING CONTROL OCCUPANCY SENSOR WITH DUAL LEVEL SWITCHING, WALL MOUNTED, +42" UON.
- M1 LIGHTING CONTROL OCCUPANCY SENSOR WITH SINGLE LEVEL SWITCHING, WALL MOUNTED, +42" UON.

LINE VOLTAGE LIGHTING CONTROL

- S SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
- S^{3} THREE-WAY SWITCH, WALL MOUNTED, +42" UON.
- S^{4} FOUR-WAY SWITCH, WALL MOUNTED, +42" UON.
- S^{K} SINGLE-POLE, SINGLE-THROW SWITCH, KEY-OPERATED, WALL MOUNTED, +42" UON.
- S^{P} SINGLE-POLE, SINGLE-THROW SWITCH, WITH PILOT LIGHT, WALL MOUNTED, +42" UON.
- S^{D} WALLBOX DIMMER SWITCH, +42" UON. SIZED PER CONNECTED LOAD ON PLANS AND FURNISHED FOR LAMP SOURCE SERVED. PROVIDED FOR DERATING WHEN INSTALLED GANGED LOCATIONS.
- S^{TC} SINGLE-POLE, TIMER CONTROLLED SWITCH, WALL MOUNTED, +42" UON.
- S^{EP} SINGLE-POLE, SINGLE-THROW SWITCH, EXPLOSION PROOF, WALL MOUNTED, +42" UON.
- S^{V} LINE VOLTAGE SINGLE RELAY VACANCY SENSOR, WALL MOUNTED, +42" UON.
- S^{WP} SINGLE-POLE, SINGLE-THROW SWITCH WITH WEATHERPROOF COVER, WALL MOUNTED, +42" UON.
- S^{H} SINGLE-POLE SWITCH WITH AUTOMATIC HUMIDITY CONTROL, WALL MOUNTED, +42" UON.
- S^{M} DUAL LEVEL OCCUPANCY SENSOR SWITCH, WALL MOUNTED, +42" UON.
- S^{M1} SINGLE LEVEL OCCUPANCY SENSOR SWITCH, WALL MOUNTED, +42" UON.
- S^{DM} COMBINATION OCCUPANCY SENSOR AND DIMMER SWITCH, WALL MOUNTED, +42" UON.
- OS OCCUPANCY SENSOR FOR AREA COVERAGE, CEILING MOUNTED.
- PC PHOTOELECTRIC CELL SENSOR, CEILING MOUNTED.
- ETD EGRESS LIGHTING TRANSFER DEVICE.

TELECOMMUNICATIONS

- TELECOMMUNICATION DEVICE, WALL MOUNTED, +18" UON.

FIRE ALARM

- SMOKE DETECTOR INITIATING DEVICE, CEILING MOUNTED IN FLUSH OR SURFACE JUNCTION BOX.
- SMOKE DETECTOR INITIATING DEVICE, WALL MOUNTED IN FLUSH JUNCTION BOX, MAXIMUM 6" BELOW CEILING.
- SMOKE DETECTOR INITIATING DEVICE, MOUNTED TO STRUCTURE ABOVE SUSPENDED CEILING IN SURFACE JUNCTION BOX OR SUSPENDED IN JUNCTION BOX IN FRONT OF RETURN AIR FIRE/SMOKE DAMPERS.
- SMOKE DETECTOR INITIATING DEVICE, DUCT-MOUNTED TYPE WITH SAMPLING TUBE, LOCATED AT SUPPLY AIR FANS 2000cfm AND LARGER.
- SMOKE DETECTOR INITIATING DEVICE, IN-DUCT MOUNTED TYPE AT DUCTED SUPPLY AIR FIRE/SMOKE DAMPERS.
- PROJECTED BEAM SMOKE DETECTOR INITIATING DEVICES TO INCLUDE TRANSMITTER, RECEIVER AND REMOTE INDICATOR STATION, WALL MOUNTED IN FLUSH JUNCTION BOX BELOW BEAM DETECTOR AT +42" AFF. BEAM DETECTORS ARE EITHER CEILING OR WALL MOUNTED 6" BELOW CEILING.
- HEAT DETECTOR INITIATING DEVICE, CEILING MOUNTED IN FLUSH OR SURFACE JUNCTION BOX.
- HEAT DETECTOR INITIATING DEVICE, WALL MOUNTED IN FLUSH JUNCTION BOX, MAXIMUM 6" BELOW CEILING.
- HEAT DETECTOR INITIATING DEVICE, MOUNTED TO STRUCTURE ABOVE SUSPENDED CEILING IN SURFACE JUNCTION BOX.
- F MANUAL PULL STATION INITIATING DEVICE, WALL MOUNTED AT +48" UON.
- SPRINKLER SYSTEM WATER FLOW SWITCH, NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM.
- SPRINKLER SYSTEM TAMPER SWITCH, NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM.
- SPRINKLER SYSTEM POST INDICATING VALVE 'PIV', NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM. INCLUDE A REMOTE MOUNTED ADDRESSABLE MONITORING MODULE AT PIV.
- SM REMOTE MOUNTED SINGLE INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- DM REMOTE MOUNTED DUAL INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- CR REMOTE MOUNTED PROGRAMMABLE CONTROL RELAY MODULE FOR ADDRESSABLE CONTROL.
- DPS DIFFERENTIAL PRESSURE SWITCH, NIEC. SYMBOLS DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM TO ANNUNCIATE FAN OPERATION. INCLUDE A REMOTE MOUNTED ADDRESSABLE MONITORING MODULE AT EACH LOCATION.
- EOL END-OF-LINE RESISTOR.
- CT CURRENT TRANSFORMER FOR MONITORING AVAILABLE POWER.
- FRAP FIREMANS REMOTE ANNUNCIATOR PANEL FRAP, FLUSH WALL MOUNTED, +42" UON.
- MAGNETIC TYPE DOOR HOLD OPEN/RELEASE DEVICE, WALL MOUNTED, NIEC. SYMBOL DENOTES INTERFACE FOR POWER AND CONTROL CONNECTIONS FROM FIRE ALARM SYSTEM.
- DOOR HOLD OPEN/RELEASE DEVICE INTEGRATED IN DOOR HARDWARE CLOSURE EQUIPMENT, NIEC. SYMBOL DENOTES INTERFACE FOR POWER AND CONTROL CONNECTIONS FROM FIRE ALARM SYSTEM.
- AUDIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER.
- VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX.
- VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- B FIRE ALARM BELL FOR SPRINKLER FLOW ANNUNCIATOR, NIEC, POWERED AND INSTALLED BY ELECTRICAL, WALL MOUNTED ON EXTERIOR OF BUILDING.
- THERMISTOR SENSOR DEVICE IN FSAE LOBBIES FOR TEMPERATURE MONITORING, WALL MOUNTED 6" BELOW CEILING.
- SMOKE ALARM FOR RESIDENTIAL DWELLING UNITS, NON-ADDRESSABLE, 120V DEVICE WITH BATTERY BACK-UP, CEILING MOUNTED IN FLUSH OR SURFACE JUNCTION BOX.
- SMOKE ALARM FOR RESIDENTIAL DWELLING UNITS, NON-ADDRESSABLE, 120V DEVICE WITH BATTERY BACK-UP, WALL MOUNTED MAXIMUM 6" BELOW CEILING IN FLUSH JUNCTION BOX.
- C COMBINATION SMOKE AND CARBON MONOXIDE ALARM FOR RESIDENTIAL DWELLING UNITS, NON-ADDRESSABLE, 120V DEVICE WITH BATTERY BACK-UP, CEILING MOUNTED IN FLUSH OR SURFACE JUNCTION BOX.
- C COMBINATION SMOKE AND CARBON MONOXIDE ALARM FOR RESIDENTIAL DWELLING UNITS, NON-ADDRESSABLE, 120V DEVICE WITH BATTERY BACK-UP, WALL MOUNTED MAXIMUM 6" BELOW CEILING IN FLUSH JUNCTION BOX.
- REMOTE 2-WAY COMMUNICATION STATION, WALL MOUNTED, +42" AFF.

ABBREVIATIONS

A	AMPERES	LCP	LIGHTING CONTROL PANEL
AFI	ARC FAULT CIRCUIT INTERRUPTER	MBGB	MAIN BUILDING GROUND BUS
AF	AMPERE OVERCURRENT FRAME SIZE (WHEN APPLIED TO CIRCUIT BREAKERS) OR AMPERE FUSE SIZE (WHEN APPLIED TO FUSES)	MCB	MAIN CIRCUIT BREAKER
		MCC	MOTOR CONTROL CENTER
		MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MT	EMPTY
AIC	ASYMMETRIC INTERRUPTING CURRENT	MTS	MANUAL TRANSFER SWITCH
AL	ALUMINUM	(N)	NEW
AT	AMPERE OVERCURRENT TRIP (WHEN APPLIED TO CIRCUIT BREAKERS)	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NF	NON-FUSED
BAS	BUILDING AUTOMATION SYSTEM	NIEC	NOT IN ELECTRICAL CONTRACT
BPS	BOLTED PRESSURE CONTACT SWITCH	NO	NORMALLY OPEN
C	CONDUIT	NTS	NOT TO SCALE
CCTV	CLOSED CIRCUIT TELEVISION	OC	ON CENTER
CEC	CALIFORNIA ELECTRICAL CODE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CL	CURRENT LIMITING CIRCUIT BREAKER OR FUSE	PDZ	PRIMARY DAYLIGHT ZONE
CP	CIRCULATION PUMP	PNL	PANEL
CT	CURRENT TRANSFORMER	PQM	POWER QUALITY METER
CU	COPPER	PT	POTENTIAL TRANSFORMER
DF	DRINKING FOUNTAIN	PVC	POLYVINYL CHLORIDE
(E)	EXISTING TO REMAIN	(R)	EXISTING TO BE REMOVED
EC	ELECTRICAL CONTRACTOR	(RR)	REMOVE AND RELOCATE
EF	EXHAUST FAN	SAD	SEE ARCHITECTURAL DRAWINGS
EP	EXPLOSION PROOF	TC	TIME CLOCK
EPO	EMERGENCY POWER OFF	TP	TWISTED-PAIR
EMT	ELECTRICAL METALLIC TUBING	SDZ	SECONDARY DAYLIGHT ZONE
EWH	ELECTRIC WATER HEATER	SPD	SURGE PROTECTION DEVICE
F	FUSED	TX	TRANSFORMER
(F)	FUTURE	TYP	TYPICAL
FACP	FIRE ALARM CONTROL PANEL	UON	UNLESS OTHERWISE NOTED
FFCP	FIREMAN'S FAN CONTROL PANEL	UPS	UNINTERRUPTIBLE POWER SUPPLY
FLA	FULL LOAD AMPERES	V	VOLTS
FMC	FLEXIBLE METAL CONDUIT	VA	VOLTS-AMPS
FSD	FIRE/SMOKE DAMPER	VFD	VARIABLE FREQUENCY DRIVE
FRAP	FIREMAN'S REMOTE ANNUNCIATOR PANEL	VM	VENDING MACHINE
		WAP	WIRELESS ACCESS POINT
G	GROUND	WP	WEATHERPROOF
GB	GROUND BUS	2SP	TWO SPEED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	1Ø	1-PHASE
GND	GROUND	3Ø	3-PHASE
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL	1P	1-POLE
GRC	GALVANIZED RIGID CONDUIT	2P	2-POLE
HNC	HOME NETWORK CABINET	3P	3-POLE
HPC	HIGH PRESSURE CONTACT SWITCH	3W	3-WIRE
IG	ISOLATED GROUND	4W	4-WIRE
IMC	INTERMEDIATE METAL CONDUIT		

ELECTRICAL SHEET INDEX

SHEET NO.	SHEET NAME	DESIGN DEVELOPMENT	ISSUED FOR PERMIT		
E0.01	SYMBOLS, LEGENDS, NOTES & ABBREVIATIONS	●	●		
E0.02	GENERAL NOTES AND SCHEDULES	●	●		
E0.03	TITLE 24		●		
E1.01	ELECTRICAL SITE PLAN	●	●		
E2.01	POWER AND SIGNAL PLAN - LEVEL 1	●	●		
E2.02	POWER AND SIGNAL PLAN - LEVEL 2	●	●		
E2.03	POWER AND SIGNAL PLAN - LEVEL 3	●	●		
E2.04	POWER, LIGHTING AND SIGNAL PLAN - ROOF/PENTHOUSE	●	●		
E3.01	LIGHTING PLAN - LEVEL 1	●	●		
E3.02	LIGHTING PLAN - LEVEL 2	●	●		
E3.03	LIGHTING PLAN - LEVEL 3	●	●		
E3.04	LIGHTING PLAN - ROOF/PENTHOUSE				
E4.01	FIRE ALARM PLAN - LEVEL 1	●	●		
E4.02	FIRE ALARM PLAN - LEVEL 2	●	●		
E4.03	FIRE ALARM PLAN - LEVEL 3	●	●		
E4.04	FIRE ALARM PLAN - ROOF/PENTHOUSE	●	●		
E5.01	POWER SINGLE LINE DIAGRAM	●	●		
E5.02	FIRE ALARM RISER DIAGRAM		●		
E6.01	ELECTRICAL DETAILS		●		
E6.02	ELECTRICAL DETAILS		●		
E6.03	ELECTRICAL DETAILS		●		
E6.04	ELECTRICAL DETAILS		●		

ISSUE KEY:

● ISSUED AS PART OF A SET

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REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.
Apr 30 2022
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev	Date	By	Description
	11/05/21		PERMIT SUBMITTAL
	9/06/22		Issued for Bid

Drawn By KH
Checked By KM
Job No. 20035
Issue Date 02/04/2022
Scale NONE

Drawing Title

SYMBOLS LIST AND DRAWING INDEX

E0.01

Sheet

PROJECT GENERAL NOTES

1. U.O.N., ALL CIRCUITRY SHOWN ON THESE DOCUMENTS IS DONE PER THE "ROUNDHOUSE" METHOD. FOR EVERY GROUP OF THREE (3) CONSECUTIVE CIRCUITS IN PHASE ORDER, THERE IS A DEDICATED NEUTRAL. FOR EXAMPLE, A HOMERUN COMPRISED OF CIRCUITS 1, 3 AND 5 CONTAINS FOUR (4) CONDUCTORS; THREE (3) HOTS AND ONE (1) NEUTRAL. A HOMERUN COMPRISED OF NON- CONSECUTIVE NUMBERS OUT OF PHASE ORDER. I.E. 1, 9 AND 11 OR 3, 5, 7 CONTAINS FIVE (5) CONDUCTORS; THREE (3) HOTS AND TWO (2) NEUTRALS. GROUND CONDUCTORS TYPICALLY ARE NOT SHOWN AS PART OF THE WIRE COUNT. ALL MULTI-BRANCH CIRCUITS SHARING A NEUTRAL SHALL BE SERVED FROM A MULTI-POLE BREAKER OR HANDLE TIE PER 2014 NEC 210.4(B). THESE HANDLE TIES OR MULTI-POLE BREAKERS ARE TYPICALLY NOT INDICATED ON THE PANEL SCHEDULES AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.

2. INSTALL AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS.

3. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE SYMBOLS LIST UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.

4. REFER TO POWER AND SIGNAL DRAWINGS FOR THE LOCATION OF ALL PANELBOARDS.

5. FURNISH AND INSTALL ALL PANELBOARDS WITH CIRCUIT BREAKERS AS SHOWN ON PANEL SCHEDULES.

6. REFER TO ELECTRICAL DRAWINGS FOR THE FIXTURE SCHEDULE.

7. SUBSCRIPTS ON SWITCH SYMBOLS (Sa) DENOTE THE OUTLETS CONTROLLED.

8. DO NOT INSTALL TELEPHONE OR POWER OUTLETS BACK TO BACK IN STUD WALLS.

9. REFER TO ELECTRICAL ONE LINE DIAGRAM AND FEEDER SCHEDULE FOR THE SIZE OF CONDUITS AND CONDUCTORS BETWEEN MAJOR POWER COMPONENTS OF THE ELECTRICAL SYSTEM.

10. REFER TO MOTOR CONTROL CENTER SCHEDULES FOR SIZE AND QUANTITY OF BRANCH CIRCUIT CONDUCTOR HOMERUNS TO ALL MCC'S.

11. REFER TO TELEPHONE RISER DIAGRAM FOR TELEPHONE CLOSET INTERCONNECTIONS AND TELEPHONE RISER CONDUIT SIZES.

12. REFER TO ARCHITECTURAL POWER AND SIGNAL PLANS FOR DIMENSIONAL LOCATION OF OUTLETS.

13. AREA SHOWN CROSSHATCHED IS NOT PART OF THIS CONTRACT, UNLESS OTHERWISE NOTED. THIS AREA IS PART OF BUILDING SHELL CONSTRUCTION.

14. CONTRACTOR IS RESPONSIBLE TO SUBMIT REVISED LAYOUT OF EQUIPMENT IN MAIN ELECTRICAL ROOM OR ELECTRICAL CLOSET FOR WRITTEN APPROVAL BY ENGINEER IF PROPOSED INSTALLATION LAYOUT DIFFERS FROM CONSTRUCTION DOCUMENTS. SUBMISSION MUST BE APPROVED PRIOR TO RELEASE OF ORDER FOR EQUIPMENT AND PRIOR TO INSTALLATION.

15. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN THE BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.

16. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDER- WRITERS LABORATORIES AND BEAR THEIR LABEL.

17. ALL MECHANICAL LINE AND LOW VOLTAGE CONTROL AND INTERLOCK WIRING SHALL BE PROVIDED UNDER DIVISION 23. THIS SHALL ALSO INCLUDE THE SHUTDOWN WIRING FROM THE FIRE ALARM OUTPUT RELAY ON ONE OF THE DUCT DETECTORS SERVING EACH AC UNIT.

18. CONTRACTOR SHALL REMOVE ALL LEFT OVER CONDUIT, WIRE, SCRAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH OR DEBRIS RESULTING FROM HIS WORK.

19. CONTRACTOR SHALL REPORT TO THE OWNER'S ENGINEER ANY OBSERVATIONS OF CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE CORRECT INSTALLATION OF THE ELECTRICAL SYSTEM.

20. PROVIDE INDIVIDUAL GFCI RECEPTACLES AT EACH LOCATION SHOWN, DO NOT USE FEED-THRU GFCI TYPE RECEPTACLES. LOCATE RECEPTACLE AT END OF A BRANCH CIRCUIT WIRE.

21. EXISTING DEVICES IF NOTED ON PLANS ARE SHOWN DASHED. DISCONNECT AND REMOVE ALL EXISTING DEVICES AND FIXTURES AS SHOWN ON DEMOLITION PLAN. TURN OVER TO OWNER EXISTING DEVICES AND FIXTURES THAT ARE NOT REUSED. DISCARD IF OWNER DOES NOT WANT.

DEMOLITION NOTES FOLLOW

22. RECONNECT EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTIONS TO ANOTHER EXISTING DEVICE OR PANEL. VERIFY CIRCUIT LOADING ON EXISTING CIRCUIT.

23. WHEN A DEVICE IS REMOVED FROM AN EXISTING WALL WHICH WILL REMAIN, PATCH WALL TO MATCH EXISTING OR NEW FINISH.

24. MOUNTING HEIGHTS FOR ALL NEW DEVICES SHALL BE LOCATED TO MATCH EXISTING, UON.

25. WHERE ADDITIONAL CIRCUITS ARE NEEDED IN PANEL, PROVIDE NEW CIRCUIT BREAKERS TO MATCH EXISTING IN EXISTING SPACES AS REQUIRED.

26. WHERE EXISTING TO BE REMOVED ELECTRICAL DEVICES ARE SHOWN, THE CONTRACTOR SHALL ALSO REMOVE ALL CONDUCTORS SERVING THE DEVICE. ABANDON ALL UNUSED DEVICE BOXES AND CONDUITS. ABANDONED CONDUITS AND BOXES CAN BE RE-USED TO PULL NEW CONDUCTORS THROUGH FOR SERVICE TO DEVICES DOWNSTREAM. DO NOT SPLICE IN ABANDONED DEVICE BOXES.

27. CLEAN ALL EXISTING LIGHTING FIXTURES AND LAMPS PRIOR TO REINSTALLING.

28. ADHERE TO THE BUILDING STANDARD ELECTRICAL SPECIFICATIONS IN PERFORMING WORK OUTLINED IN THESE DOCUMENTS. IF CONTRACTOR DOES NOT HAVE A COPY OF THE SPECIFICATIONS, ONE WILL BE FURNISHED.

29. VERIFY THE EXACT LOCATION OF ALL MECHANICAL PUMP AND FAN MOTORS. SPRINKLER VALVE MONITORS AND FLOW SWITCHES, DUCT SMOKE DETECTORS, CONTROL DEVICES, ETC. PRIOR TO DETERMINING CONDUIT TERMINATION POINTS.

SITEWORK NOTES FOLLOW

30. PRIOR TO COMMENCING TRENCHING OPERATIONS, CONTACT THE UTILITIES UNDERGROUND SERVICE ALERT BUREAU AND DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITY LINES WHICH MIGHT BE DAMAGED DURING THE INSTALLATION OF THIS WORK. HAND TRENCH, BACKFILL AND COMPACT IN AREAS OF EXISTING UTILITY LINES TO AVOID DAMAGE TO SAME.

31. SIZE PULLBOXES TO MINIMUM CODE REQUIREMENTS. OBTAIN THE LANDSCAPE ARCHITECTS APPROVAL OF ANY PULLBOX(ES) ADDED TO FACILITATE THE INSTALLATION OF CONDUITS SHOWN ON THE PLANS.

32. ALL WORK SHALL BE LOCATED IN PUBLIC UTILITY EASEMENT. EQUIPMENT AND DUCT BANKS IN GENERAL ARE SHOWN LOCATED IN EASEMENTS. CONTRACTOR SHALL REFER TO EASEMENT DRAWINGS DURING CONSTRUCTION TO MAINTAIN ALL EQUIPMENT AND DUCTS WITH EASEMENTS.

33. COORDINATE LOCATIONS OF ALL SITE PULLBOXES, TRANSFORMER PADS AND TRENCHING WITH ARCHITECT PRIOR TO INSTALLATION. UTILITY LINES SHALL BE A MINIMUM OF 10'-0" AWAY FROM TREE LOCATIONS.

CONDUIT NOTES FOLLOW

34. CONDUIT ROUTING (WHERE SHOWN) IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FILED CONDITINS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES.

35. ALL CONDUIT AND RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED TO MAINTAIN THE FIRE SEPARTAION RATING.

36. CONDUITS IMBEDDED IN SLABS SHALL BE NO LARGER THAN 1.25" TRADE SIZE OF 1/3 OF SLAB DEPTH, WHICHEVER IS SMALLER. SPACE CONDTUIE 5" APART (CENTER-T0-CENTER).

37. REFER TO STRUCTURAL DRAWINGS FOR CONDUIT INSTALLATION REQUIREMENTS AND LIMITATIONS AT FOOTINGS AND FOR CONDUIT RUNS IN OR THROUGH CONCRETE SLABS, JOISTS AND BEAMS.

38. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE PROVIDED WITH SPECIFIED EXPANSION/DEFLECTION FITTINGS.

39. INSTALL A POLYETHYLENE PULLING ROPE IN ALL EMPTY CONDUITS.

LIGHTING NOTES FOLLOW

40. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES AND LIFE SAFETY DEVICES. THESE DRAWINGS INDICATE APPROXIMATE LOCATIONS ONLY.

41. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF WALL MOUNTED LIGHT FIXTURES. THESE DRAWINGS INDICATE APPROXIMATE LOCATIONS ONLY.

42. FIXTURE ORIENTATION IN ROOMS CONTAINING 2' X 2' AND 2' X 4' FIXTURES SHALL BE THE SAME.

FIRE ALARM NOTES FOLLOW

43. DRAWINGS HEREIN SHOW GENERAL INTENT OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DESIGN DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO SUBMITTING FOR PERMIT.

46. THE NEW FIRE ALARM WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
   a. INSTALLATION OF RACEWAYS AND WIRING.
   b. INSTALLATION FA INITIATION AND SIGNALING DEVICES.
   c. INSTALLATION OF FACP, AUXILIARY EQUIPMENT AND ASSEMBLIES FOR A CODE COMPLIANT FA SYSTEM.
   d. TESTING AND COMMISSIONING OF FIRE ALARM SYSTEM.

47. CONTRACTOR SHALL COORDINATE FIRE ALARM WORK WITH LOCAL FIRE AUTHORITY. DISTRICT AND LOCAL FIRE AUTHORITY SHALL BE GIVEN 48 HOUR NOTICE PRIOR TO SYSTEM SHUT DOWN. SIGNS SHALL BE POSTED NOTIFYING PUBLIC AND OWNER THAT THE FIRE ALARM SYSTEM HAS BEEN DECOMMISSIONED FOR THE UPGRADE.

EAST PALO ALTO GOVERNMENT LUMINAIRE SCHEDULE

LUMINAIRE SCHEDULE NOTES:
REFER TO SPECIFICATION "265000 LIGHTING" FOR DETAILS ON TIER REQUIREMENTS. IN ABSENCE OF SPECIFICATION SECTION, REFER TO THE FOLLOWING TIER DEFINITIONS:

TIER 1 (LEGACY CRI 90): FOR APPLICATIONS WHERE COLOR FIDELITY IS CRITICAL, SUCH AS MUSEUMS, GALLERIES, HIGH-END RESIDENTIAL, ETC. R9 VALUE; MINIMUM 80. TM30 VALUES; RF >78, 95>RG>105.

TIER 2 (LEGACY CRI 80): FOR APPLICATIONS WHERE COLOR FIDELITY IS IMPORTANT, SUCH AS OFFICES, SCHOOLS, GENERAL INTERIOR AREAS, ETC. R9 VALUE; MINIMUM 30. TM30 VALUES; RF >75, 92>RG>110.

TIER 3 (LEGACY CRI 70): FOR APPLICATIONS WHERE COLOR FIDELITY IS NOT CRITICAL, SUCH AS EXTERIOR PARKING AND AREA LIGHTING, WAREHOUSES, ETC. R9 VALUE; MINIMUM 20. TM30 VALUES; RF >70, 89>RG>100.

TYPE	MANUFACTURER CATALOG NUMBER	DESCRIPTION	LIGHT SOURCE	TIER	DRIVER, TRANSFORMER	WATTAGE	VOLTAGE
F1	FINELITE HPR LED SERIES #HPR LED-A-2X2-DCO-B-840-277V-SC-X	2X2 RECESSED LED TROFFER LOCATION:OFFICE	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	20	277
F1E	FINELITE HPR LED SERIES #HPR LED-A-2X2-DCO-B-840-277V-SC-X-BODINE BSL722	SAME AS ABOVE EXCEPT WITH LOW-PROFILE BACK UP BATTERY	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	20	277
F2	FINELITE HPR LED SERIES #HPR LED-A-2X4-DCO-S-840-277V-SC-X	2X4 RECESSED LED TROFFER LOCATION:OFFICE AND CORRIDORS	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	27	277
F2E	FINELITE HPR LED SERIES #HPR LED-A-2X4-DCO-S-840-277V-SC-X-BODINE BSL722	SAME AS ABOVE EXCEPT WITH LOW-PROFILE BACK UP BATTERY	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	27	277
F3	HE WILLIAMS 6DR LED SERIES #6DR-TL-L10-8-40-DIM-UNV-F-M	RECESSED LED DOWNLIGHT LOCATION:CORRIDOR AND SUPPORT SPACES	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	8.7	UNV
F3E	HE WILLIAMS 6DR LED SERIES #6DR-TL-L10-8-40-EM/10W-DIM-UNV-F-M	RECESSED LED DOWNLIGHT BACK-UP BATTERY PACK LOCATION:CORRIDOR AND SUPPORT SPACES	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	8.7	UNV
F4	HE WILLIAMS 39 LED SERIES #39-4'-L52-8-40-A-DIM-UNV	4' LED WRAPAROUND LOCATION: CORRIDOR COVE/BATHROOM	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	37.2	UNV
F4E	HE WILLIAMS 39 LED SERIES #39-4'-L52-8-40-A-DIM-UNV-EM/10WLP	SAME AS ABOVE EXCEPT WITH LOW-PROFILE BACK UP BATTERY	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	37.2	UNV
F5	HE WILLIAMS 75R LED SERIES #75R-4-L30-80-40-DIM-UNV	4' LED STRIP LOCATION: LOBBY PANELS/ELECTRICAL ROOM/SUPPORT SPACES	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	19.6	UNV
F5E	HE WILLIAMS 75R LED SERIES #75R-4-L30-80-40-DIM-UNV-EM/10WLP	SAME AS ABOVE EXCEPT WITH LOW-PROFILE BACK UP BATTERY	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	19.6	UNV
F6	HE WILLIAMS RNDS SERIES #RNDS-2-L25-840	LED ROUND DRUM LOCATION: BATHROOM	LED 4000K 80+ CRI	TIER 2	INTEGRAL	24.3	UNV
F6E	HE WILLIAMS RNDS SERIES #RNDS-2-L25-840-EM/10W REMOTE	SAME AS ABOVE EXCEPT WITH A REMOTE BACK UP BATTERY	LED 4000K 80+ CRI	TIER 2	INTEGRAL	24.3	UNV
F7E	HE WILLIAMS SLF LED SERIES #SLF-4'-L52/840-OCCWS FS-505-PP-SD50-UNV-EM/10W	4' LED WITH OCCUPANCY SENSOR AND LOW-PROFILE BACK UP BATTERY LOCATION: STAIRS	LED 4000K 80+ CRI	TIER 2	INTEGRAL 1% DIM 0-10V	37.2	UNV
X1	EVENLITE RAZOR SERIES #RZR3-EM-G-U-X	INTERIOR EXIT SIGN	LED	N/A	N/A	2.5	UNV

LIGHTING CONTROL SCHEDULE

ESN	RELAY	CIRCUIT	AREA	ON/OFF
LCP-1	1	1R-10x	LEVEL 01 - CORRIDORS	LVS,TC
	2	1R-10y	LEVEL 01 - LOBBY	LVS,TC
	3	2L-14z	LEVEL 02 - LOBBY	LVS,TC
	4	2L-14x	LEVEL 02 - CORRIDORS	LVS,TC
	5	3L-14x	LEVEL 03 - CORRIDORS	LVS,TC
	6	1L-15a	EXTERIOR LIGHTING	TC
	7	1L-15b	EXTERIOR LIGHTING	TC
	8	1R-13	EXTERIOR ENTRY	TC
	9	SPARE		-
	10	SPARE		-
	11	SPARE		-
	12	SPARE		-

ABBREVIATIONS:
LVS **LOW VOLTAGE SWITCH**
TC **TIMECLOCK**

PANEL - 1RB

PROJECT: **EPA GOV CENTER**
LOCATION: **1ST FL ELECT RM**

LOAD SERVED	LTG.	RECP.	OTHER	C.B. AMP	C.B. POLE	CKT	A	B	C	CKT	C.B. AMP	C.B. POLE	LTG.	RECP.	OTHER	LOAD SERVED
FPS-1106			1.4	20	1	1	*			2	20	1		1.0		(E) MICRO/FRIDGE
FPP-1110			1.5	20	1	3		*		4	20	1		1.0		(E) COFFEE/COOLER
FPP-1113			1.5	20	1	5			*	6	20	1		0.4		(E) 4PLEX - POLICE KITCHEN
MECH TCP			0.5	20	1	7	*			8	20	1				SPARE
FIRE ALARM FATC			1.0	20	1	9		*		10	20	1				SPARE
SECURITY PNL			0.5	20	1	11			*	12	20	1				SPARE
LOBBY SECURITY DECK		0.2		20	1	13	*			14	20	1				SPARE
SPARE				20	1	15		*		16	20	1				SPARE
SPARE				20	1	17			*	18	20	1				SPARE
SPARE				20	1	19	*			20	20	1				SPARE
SPARE				20	1	21		*		22	20	1				SPARE
SPARE				20	1	23			*	24	20	1				SPARE
						XXX	*			XXX						
						XXX		*		XXX						
						XXX			*	XXX						
						XXX	*			XXX						
						XXX		*		XXX						
						XXX			*	XXX						
						XXX	*			XXX						
						XXX		*		XXX						
						XXX			*	XXX						
TOTALS --------->		0.2	6.4											2.4		<-------- TOTALS

VOLTAGE: **120/208V, 3Ø, 4W**
S.C.A.: **22,000 AIC RMS SYM.**
MOUNTING: **SURFACE**
BUS SIZE: **100 AMP BUSING**
MAINS: **MAIN LUGS ONLY**

For Office Use Only

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
	X	100% OF LOAD	=		<----- LIGHTING
3	X	NEC 220-13	=	3	<----- RECEPTACLES
6	X	1.00	=	6	<----- OTHER
======				======	
9 KVA		25 Amps		9 KVA	25 AMPS
11 KVA		<---- 80% Rated Breaker ---->		11 KVA	31 AMPS
		25% Spare Added ---------------->			39 AMPS

THESE VALUES SUMMARIZE THE LOADS FROM ALL PANEL SECTIONS

PHASE BALANCE	A	B	C
KVA	3	4	2
%	34%	39%	26%
AMP	26	29	20

panel13.xls 05/12/98

ADDITIONAL FEATURES:
DATE ISSUED:
DATE PRINTED: 11/05/21

PANEL - 2RA

EXISTING
PROJECT: **EPA GOV CENTER**
LOCATION: **2ND FL ELECT RM**

LOAD SERVED	LTG.	RECP.	OTHER	C.B. AMP	C.B. POLE	CKT	A	B	C	CKT	C.B. AMP	C.B. POLE	LTG.	RECP.	OTHER	LOAD SERVED
(E) FURNITURE PROBATION				20	1	1	*			2	20	1				(E) RECP FURNITURE PROBATION
(E) RECP PROBATION NBI SERVER				20	1	3		*		4	20	1				(E) RECP CITY AREA
(E) RECP PROBATION NBI SERVER				20	1	5			*	6	20	1				(E) RECP CITY AREA
(E) RECP PROBATION NBI SERVER				20	1	7	*			8	20	1				(E) RECP CITY AREA
(E) RECP RM 202, 203				20	1	9		*		10	20	1				(E) RECP CITY AREA
(E) RECP RM 202,203				20	1	11			*	12	20	1				(E) RECP CITY AREA
(E) RECP RM 201, 203				20	1	13	*			14	20	1				(E) RECP CITY AREA
(E) RECP PROBATION CLERICAL				20	1	15		*		16	20	1				(E) RECP CITY AREA
(E) RECP IG, PROBATION BACK OFF				20	1	17			*	18	20	1				(E) RECP CITY AREA
(E) RECP CITY OFFICES				20	1	19	*			20	20	1				(E) RECP ROOMS 2A, 2B
FPP-1206, 08, 27 & 29			**1.8**	20	1	21		*		22	20	1			**1.0**	**FIRE ALARM FATC**
FPP-1221 & FPP-1228			**1.4**	20	1	23			*	24	20	1				SPARE
(E) RECP TELEPHONE EQUIP				20	1	25	*			26	20	1				(E) RECP PHONE SYS
MECH TCP PANEL			**0.5**	20	1	27		*		28	20	1				(E) RECP PHONE SYS
(E) RECP IBM EQUIP				20	1	29			*	30	20	1				SPARE
(E) RECP IG, CLASSROOM				20	1	31	*			32	20	1				(E) RECP COPIER, BACK CLOSET
(E) RECP IG, CLASSROOM				20	1	33		*		34	20	1				(E) RECP COPIER, BACK CLOSET
SPARE				20	1	35			*	36	20	1				SPARE
SPARE				20	1	37	*			38	20	1				(E) RECP FURNITURE PRENATAL
(E) RECP				20	1	39		*		40	20	1				(E) RECP PRENATAL
(E) RECP				20	1	41			*	42	20	1				(E) RECP PRENATAL
TOTALS --------->			3.7												1.0	<-------- TOTALS

VOLTAGE: **120/208V, 3Ø, 4W**
S.C.A.: **MATCH EXISTING**
MOUNTING: **SURFACE**
BUS SIZE: **225 AMP BUSING**
MAINS: **MAIN LUGS ONLY**

For Office Use Only

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
	X	100% OF LOAD	=		<----- LIGHTING
	X	NEC 220-13	=		<----- RECEPTACLES
5	X	1.00	=	5	<----- OTHER
======				======	
5 KVA		13 Amps		5 KVA	13 AMPS
6 KVA		<---- 80% Rated Breaker ---->		6 KVA	16 AMPS
		25% Spare Added ---------------->			20 AMPS

THESE VALUES SUMMARIZE THE LOADS FROM ALL PANEL SECTIONS

PHASE BALANCE	A	B	C
KVA		3	1
%		70%	30%
AMP		28	12

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ADDITIONAL FEATURES:
DATE ISSUED:
DATE PRINTED: 09/12/21

PANEL - 3R1

EXISTING
PROJECT: **EPA GOV CENTER**
LOCATION: **3RD FL ELECT RM**

LOAD SERVED	LTG.	RECP.	OTHER	C.B. AMP	C.B. POLE	CKT	A	B	C	CKT	C.B. AMP	C.B. POLE	LTG.	RECP.	OTHER	LOAD SERVED
				20	1	1	*			2	15	2				(E) AC ROOF UNIT
				20	1	3		*				---				
				20	1	5			*	6	30	1				
(E) RECP BELOW				20	1	7	*			8	20	1				
(E) AC SERVER UNIT				20	1	9		*		10	20	1				
FPP-1310, 27 & 28			**1.4**	20	1	11			*	12	20	1				(E) RECPT BELOW
FPP-1315 & FPP-1316			**1.3**	20	1	13	*			14	20	1				(E) FURNITURE BASE FEED HSA
MECH TCP PANEL			**0.5**	20	1	15		*		16	20	1				(E) FURNITURE BASE FEED HSA
SPARE				20	1	17			*	18	20	1				(E) FURNITURE BASE FEED HSA
SPARE				20	1	19	*			20	20	1				(E) FURNITURE BASE FEED HSA
SPARE				20	1	21		*		22	20	1				SPARE
SPARE				20	1	23			*	24	20	1				SPARE
						XXX	*			XXX						
						XXX		*		XXX						
						XXX			*	XXX						
						XXX	*			XXX						
						XXX		*		XXX						
						XXX			*	XXX						
						XXX	*			XXX						
						XXX		*		XXX						
						XXX			*	XXX						
TOTALS --------->			3.2													<-------- TOTALS

VOLTAGE: **120/208V, 3Ø, 4W**
S.C.A.: **MATCH EXISTING**
MOUNTING: **SURFACE**
BUS SIZE: **100 AMP BUSING**
MAINS: **MAIN LUGS ONLY**

For Office Use Only

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
	X	100% OF LOAD	=		<----- LIGHTING
	X	NEC 220-13	=		<----- RECEPTACLES
3	X	1.00	=	3	<----- OTHER
======				======	
3 KVA		9 Amps		3 KVA	9 AMPS
4 KVA		<---- 80% Rated Breaker ---->		4 KVA	11 AMPS
		25% Spare Added ---------------->			14 AMPS

THESE VALUES SUMMARIZE THE LOADS FROM ALL PANEL SECTIONS

PHASE BALANCE	A	B	C
KVA	1	1	1
%	41%	16%	44%
AMP	11	4	12

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ADDITIONAL FEATURES:
DATE ISSUED:
DATE PRINTED: 09/12/21

PANEL - 4RA

PROJECT: **EPA GOV CENTER**
LOCATION: **1ST FL ELECT RM**

LOAD SERVED	LTG.	RECP.	OTHER	C.B. AMP	C.B. POLE	CKT	A	B	C	CKT	C.B. AMP	C.B. POLE	LTG.	RECP.	OTHER	LOAD SERVED
BOILER EWH-1			2.3	30	2	1	*			2	20	1				SPARE
			2.3		---			*		4	20	1				SPARE
MECH TCP			0.5	20	1	5			*	6	20	1			0.5	(E) OIL HEATER
EF-3			0.3	20	1	7	*			8	20	1				SPARE
EF-7			0.3	20	1	9		*		10	20	1				SPARE
EF-4			0.7	20	1	11			*	12	20	1				SPARE
EF-5			0.7	20	1	13	*			14	20	1				SPARE
EF-6			0.5	20	1	15		*		16	20	1				SPARE
EF-8			0.4	20	1	17			*	18	20	1				SPARE
ROOF RECPT		0.2		20	1	19	*			20	20	1				SPARE
SPARE				20	1	21		*		22	20	1				SPARE
SPARE				20	1	23			*	24	20	1				SPARE
						XXX	*			XXX						
						XXX		*		XXX						
						XXX			*	XXX						
						XXX	*			XXX						
						XXX		*		XXX						
						XXX			*	XXX						
						XXX	*			XXX						
						XXX		*		XXX						
						XXX			*	XXX						
TOTALS --------->		0.2	7.8												0.5	<-------- TOTALS

VOLTAGE: **120/208V, 3Ø, 4W**
S.C.A.: **10,000 AIC RMS SYM.**
MOUNTING: **SURFACE**
BUS SIZE: **100 AMP BUSING**
MAINS: **MAIN LUGS ONLY**

For Office Use Only

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
	X	100% OF LOAD	=		<----- LIGHTING
0	X	NEC 220-13	=	0	<----- RECEPTACLES
8	X	1.00	=	8	<----- OTHER
======				======	
8 KVA		24 Amps		8 KVA	24 AMPS
11 KVA		<---- 80% Rated Breaker ---->		11 KVA	29 AMPS
		25% Spare Added ---------------->			37 AMPS

THESE VALUES SUMMARIZE THE LOADS FROM ALL PANEL SECTIONS

PHASE BALANCE	A	B	C
KVA	3	3	2
%	40%	36%	24%
AMP	28	25	17

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ADDITIONAL FEATURES:
DATE ISSUED:
DATE PRINTED: 09/12/21

SWATT | MIERS
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1305 MARINA VILLAGE PKWY # 100
ALAMEDA, CA 94501-1122
(510) 769-7600 JOB #20035

REGISTERED PROFESSIONAL ENGINEER
KRISTINA MARTIN
No. E15303
Exp. 03/31/23
ELECTRICAL
STATE OF CALIFORNIA

JOB COPY

TO REMAIN ON

SITE AT ALL TIMES

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.
Apr 30 2022
SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev	Date	By	Description
	11/05/21		PERMIT SUBMITTAL
	9/06/22		Issued for Bid

Drawn By KH
Checked By KM
Job No. 20035
Issue Date 02/04/2022
Scale NONE

Drawing Title
GENERAL NOTES AND SCHEDULES

E0.02
Sheet

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: EAST PALO ALTO GOVERNMENT CENTER — Report Page: Page 1 of 8
Project Address: 2415 University Avenue East Palo Alto, CA 94030 — Date Prepared: September 10, 2021

A. GENERAL INFORMATION

01	Project Location (city)	PALO ALTO	04	Total Conditioned Floor Area (ft²)	40,777
02	Climate Zone	3	05	Total Unconditioned Floor Area (ft²)	
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	

☑ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☑ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☑ Altered Lighting System	Area Category	46,746		
Total Area of Work (ft²)	**46,746**			

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04	05		06	07		08		09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)2 (-)	=	**Total Adjusted** (Watts) *Includes Adjustments		**05 Must be ≥ 08** §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)				
Conditioned:		29,406.35			= **29,406.35**	≥	19,899.2		=	**19,899.2**		**COMPLIES**
Unconditioned:					=	≥			=			

Table Continued

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: EAST PALO ALTO GOVERNMENT CENTER — Report Page: Page 2 of 8
Project Address: 2415 University Avenue East Palo Alto, CA 94030 — Date Prepared: September 10, 2021

Controls Compliance (See Table H for Details)	**COMPLIES with Exceptional Conditions**
Rated Power Reduction Compliance (See Table Q for Details)	**Not Applicable**

D. EXCEPTIONAL CONDITIONS

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

Table H Indoor Lighting Controls Permit Applicant Notes:
STOR/JAN: <0.5w/sf, therefoce exempted from multi-leveling controls.
CORRIDOR: <0.5w/sf, therefoce exempted from multi-leveling controls.
ELEC/SUPPORT: Electrical room is exempted from multi-level controls and automatic shutoff.

Selections made in Table T have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Fail
F1	RECESSED 2X2 TROFFER	☐	☐	20	Mfr. Spec[2]	39	☐	780	☐	☐
F1E	SAME AS ABOVE EXCEPT WITH BATT	☐	☐	20	Mfr. Spec[2]	11	☐	220	☐	☐
F2	RECESSED 2X4 TROFFER	☐	☐	27	Mfr. Spec[2]	495	☐	13,365	☐	☐
F2E	SAME AS ABOVE EXCEPT WITH BATT	☐	☐	27	Mfr. Spec[2]	64	☐	1,728	☐	☐
F3	RECESSED DOWNLIGHT	☐	☐	9	Mfr. Spec[2]	49	☐	441	☐	☐
F3E	SAME AS ABOVE EXCEPT WITH BATT	☐	☐	9	Mfr. Spec[2]	9	☐	81	☐	☐
F4E	4' WRAPAROUND W/ BATT	☐	☐	37.2	Mfr. Spec[2]	15	☐	558	☐	☐
F5	4' STRIP	☐	☐	19.6	Mfr. Spec[2]	79	☐	1,548.4	☐	☐

STATE OF CALIFORNIA
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Project Address: 2415 University Avenue East Palo Alto, CA 94030 — Date Prepared: September 10, 2021

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Fail
F5E	SAME AS ABOVE EXCEPT WITH BATT	☐	☐	19.6	Mfr. Spec[2]	9	☐	176.4	☐	☐
F6E	ROUND DRUM W/ BATTERY BACKUP	☐	☐	24.3	Mfr. Spec[2]	6	☐	145.8	☐	☐
F7E	4' WRAPAROUND W/ OCC. SENSORS	☐	☐	37.2	Mfr. Spec[3]	23	☐	855.6	☐	☐
					Total Designed Watts CONDITIONED SPACES:			**19,899.2**		

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

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector Pass	Fail
NA: ≤ 80% LP (alt only)	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass	Fail
STOR/JAN	Commercial and Industrial Storage	Manual ON/ OFF	Exempt*	Occ. Sensor	NA	NA	☐	☐	☐

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CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: EAST PALO ALTO GOVERNMENT CENTER — Report Page: Page 4 of 8
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CONF.	Convention, Conference, Multipurpose, and Meeting Center	Manual ON/ OFF	Dimmer	Occ. Sensor	NA: ≤ 80% LP (alt only)	NA: ≤ 80% LP (alt only)	☐	☐	☐
COPY	Copy Room	Auth. Personel	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
CORRIDOR	Corridor	Manual ON/ OFF	Exempt*	Occ. Sensor	NA	NA	☐	☐	☐
DINING	Dining - Family	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
ELEC/SUPPORT	Electrical, Mechanical, Telephone Rooms	Manual ON/ OFF	Exempt*	Exempt*	NA	NA	☐	☐	☐
EXERCISE	Exercise Center, Gymnasium	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
RECEPTION	Financial Transaction	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
LIBRARY	Library - Reading Area	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
LOBBY	Main Entry Lobby	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
LOUNGE/BREAK/ WAITING	Lounge	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
OFFICES	Office (open)	Manual ON/ OFF	Dimmer	Occ. Sensor	NA: ≤ 80% LP (alt only)	NA: ≤ 80% LP (alt only)	☐	☐	☐
NURSES	Hospital - Nurse Station	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐
RESTROOMS	Restroom	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. — 13
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2 — Plan Sheet Showing Daylit Zones: E3.01-E3.03

STOR/JAN	*<0.5w/sf, therefoce exempted from multi-leveling controls.*
CORRIDOR	*<0.5w/sf, therefoce exempted from multi-leveling controls.*
ELEC/SUPPORT	*Electrical room is exempted from multi-level controls and automatic shutoff.*

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: EAST PALO ALTO GOVERNMENT CENTER — Report Page: Page 5 of 8
Project Address: 2415 University Avenue East Palo Alto, CA 94030 — Date Prepared: September 10, 2021

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment Area Category	PAF
STOR./JAN.	Commercial and Industrial Storage	0.6	530	318	☐	☐
CONV.	Convention, Conference, Multipurpose, and Meeting Center	0.85	3,336	2,835.6	☐	☐
COPY	Copy Room	0.5	66	33	☐	☐
CORRIDOR	Corridor	0.6	3,497	2,098.2	☐	☐
DINING	Dining - Family	0.5	126	63	☐	☐
ELEC/SUPPORT	Electrical, Mechanical, Telephone Rooms	0.4	1,001	400.4	☐	☐
EXERCISE	Exercise Center, Gymnasium	0.5	126	63	☐	☐
RECEPTION	Financial Transaction	0.8	230	184	☐	☐
LIBRARY	Library - Stack Area	1.1	6,525	7,177.5	☐	☐
LOBBY	Main Entry Lobby	0.85	1,490	1,266.5	☐	☐
LOUNGE/BREAK/WAITING	Lounge	0.65	1,648	1,071.2	☐	☐
OFFICE > 250	Office (> 250 square feet)	0.65	3,059	1,988.35	☐	☐
OFFICE < 250	Office (≤ 250 square feet)	0.7	4,860	3,402	☐	☐
OPEN OFFICE	Office (open)	0.6	11,046	6,627.6	☐	☐
NURSING	Hospital - Nurse Station	0.75	381	285.75	☐	☐
RESTROOM	Restroom	0.65	1,095	711.75	☐	☐
STAIRS	Stairwell	0.5	1,761	880.5	☐	☐
		TOTAL:	**40,777**	**29,406.35**	See Tables J or P for detail	

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J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS
This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: EAST PALO ALTO GOVERNMENT CENTER — Report Page: Page 7 of 8
Project Address: 2415 University Avenue East Palo Alto, CA 94030 — Date Prepared: September 10, 2021

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
◉	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	◉	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	◉	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	◉	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

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CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: EAST PALO ALTO GOVERNMENT CENTER — Report Page: Page 8 of 8
Project Address: 2415 University Avenue East Palo Alto, CA 94030 — Date Prepared: September 10, 2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	Philip Yu	Documentation Author Signature:	
Company:	The Engineering Enterprise	Signature Date:	September 10, 2021
Address:	1305 Marina Village Parkway	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Alameda, CA 94501	Phone:	510-769-7600

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name:	Kristina Martin	Responsible Designer Signature:	
Company :	The Engineering Enterprise	Date Signed:	September 10, 2021
Address:	1305 Marina Village Parkway	License:	E15303
City/State/Zip:	Alameda, CA 94501	Phone:	510-769-7600

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(510) 769-7600 JOB #20035

REGISTERED PROFESSIONAL ENGINEER KRISTINA MARTIN No. E15303 Exp. 03/31/23 ELECTRICAL STATE OF CALIFORNIA

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APN: 063-103-370

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	9/06/22		Issued for Bid

Drawn By: KH
Checked By: KM
Job No.: 20035
Issue Date: 02/04/2022
Scale: NONE

Drawing Title
TITLE 24

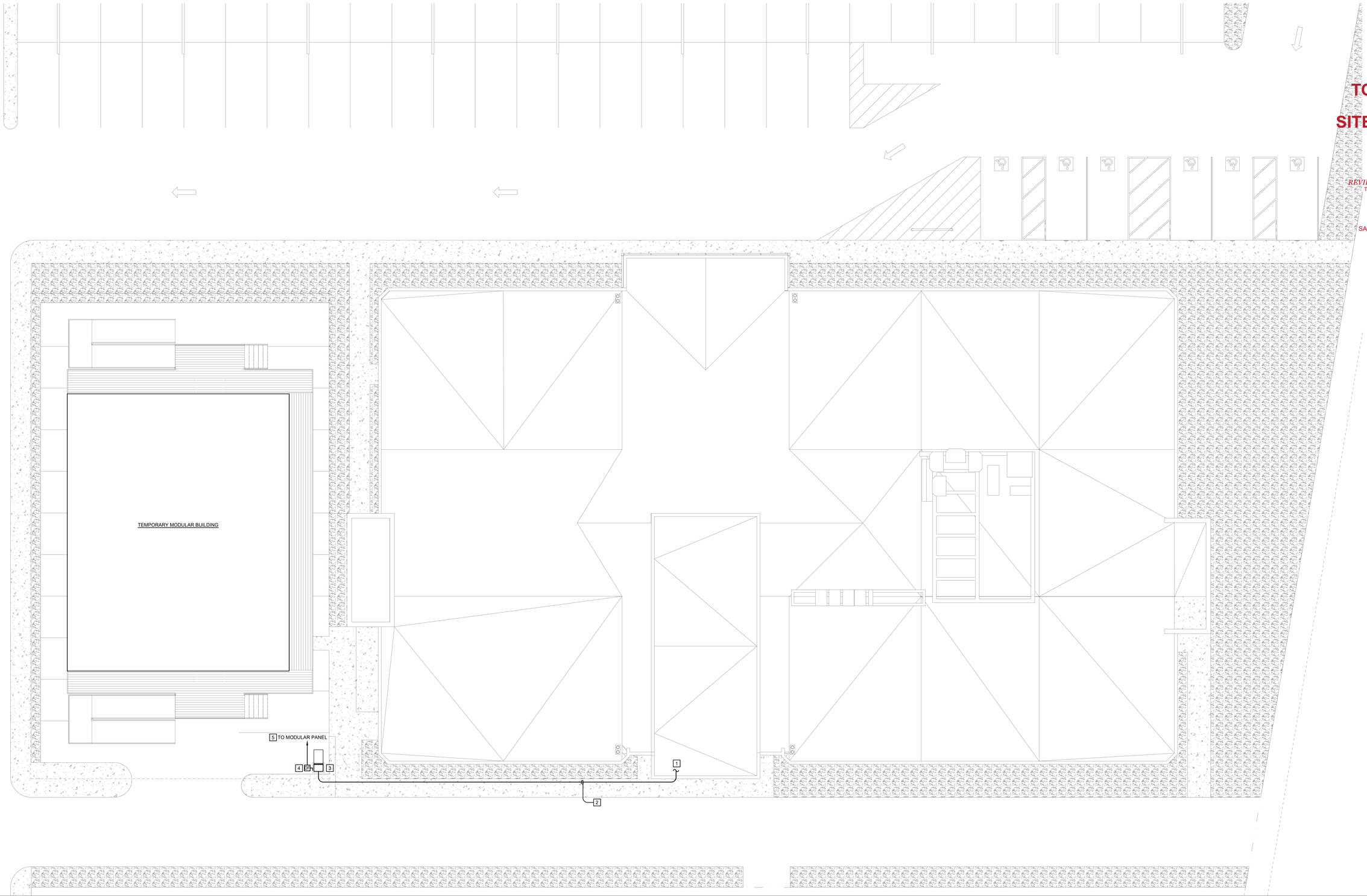
E0.03
Sheet

NUMBERED SHEET NOTES

1. TERMINATE FEEDER AT EXISTING MSB BOARD. PROVIDE TEMPORARY OPENING/PENETRATION IN SIDE OF BUILDING TO ACCOMMODATE TEMPORARY FEEDER TO MODULAR BUILDING DURING CONSTRUCTION.
2. SECURE FEEDER TO SIDE OF BUILDING.
3. PROVIDE A TEMPORARY PAD MOUNTED NEMA 3R DRY-TYPE TRANSFORMER.
4. MOUNT SECONDARY OVERCURRENT PROTECTION ON SIDE OF TRANSFORMER.
5. TERMINATE SECONDARY FEEDER AT MODULAR PANEL SINGLE POINT OF CONNECTION.

GENERAL SHEET NOTES

1. PROVIDE TEMPORARY POWER TO MODULAR BUILDING DURING CONSTRUCTION. TEMPORARY POWER SHALL BE REMOVED AT THE END OF CONSTRUCTION AND ANY IMPACT TO THE BUILDING EXTERIOR/INTERIOR DUE TO THE TEMPORARY POWER SHALL BE REMEDIED TO IT'S ORIGINAL CONDITION BY THE CONTRACTOR.
2. SERVICE SIZE TO MODULAR BUILDING IS AN ESTIMATE. THE CONTRACTOR SHALL SIZE TEMPORARY POWER AS NECESSARY TO ACCOMMODATE THE MODULAR RECOMMENDED POWER NEEDS.
3. CONTRACTOR SHALL COORDINATE LOCATION OF MODULAR PANEL WITH MODULAR SUPPLIER.



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Drawn By	KH
Checked By	KM
Job No.	20035
Issue Date	02/04/2022
Scale	NONE

Drawing Title

SITE PLAN

E1.01

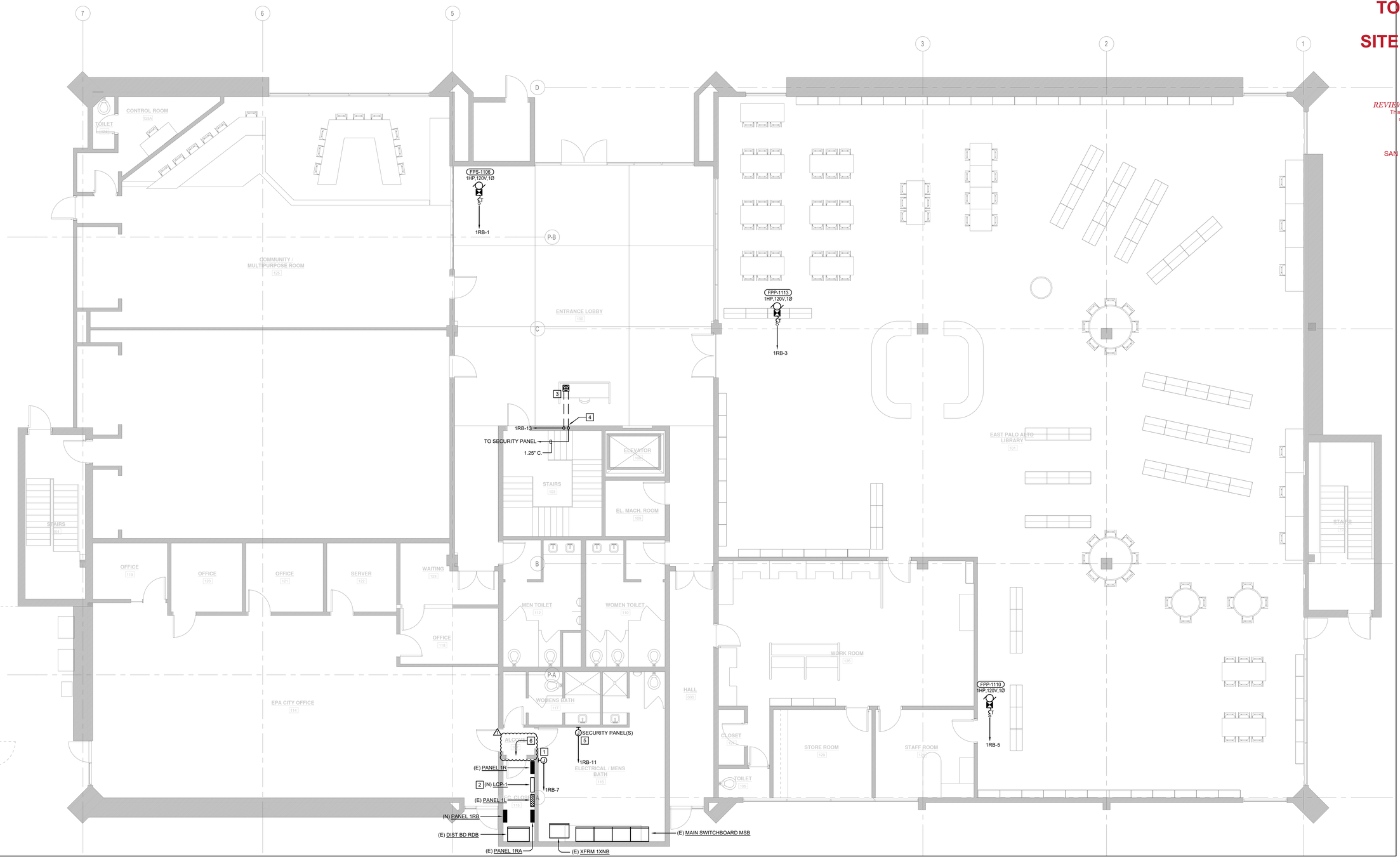
Sheet

GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR PHASING REQUIREMENTS.

NUMBERED SHEET NOTES

1. PROVIDE 120V POWER TO MECHANICAL TCP PANEL.
2. REPLACE EXISTING LIGHTING CONTROL RELAY PANEL WITH NEW. REFER TO LIGHTING CONTROL PANEL RELAY SCHEDULE, LIGHTING CONTROL DIAGRAMS AND SPECIFICATIONS.
3. SAWCUT EXISTING FLOOR FOR NEW CONDUITS AND FLOORBOX. PATCH AND REFINISH TO MATCH EXISTING FLOOR.
4. CUT, PATCH AND PAINT WALL TO ORIGINAL CONDITION FOR NEW CONDUITS.
5. PROVIDE 120V POWER TO NEW SECURITY HEAD-END PANEL(S). COORDINATE LOCATION WITH SECURITY CONTRACTOR.
6. PROVIDE A WARNING SIGN ON THE OUTSIDE OF THE DOOR STATING: "DOOR SHALL BE PROPPED OPEN WHEN AUTHORIZED PERSONNEL ARE ACCESSING ELECTRICAL ROOM."



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SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev.	Date	By	Description
	11/05/21		PERMIT SUBMITTAL
1	02/04/22		PERMIT REVISIONS
	9/06/22		Issued for Bid

Drawn By	KH
Checked By	KM
Job No.	20035
Issue Date	02/04/2022
Scale	3/16" = 1'-0"

Drawing Title

POWER AND SIGNAL PLAN - LEVEL 01

E2.01

Sheet

GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR PHASING REQUIREMENTS.

NUMBERED SHEET NOTES

[1] PROVIDE 120V POWER TO MECHANICAL TCP PANEL.

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POWER AND SIGNAL PLAN - LEVEL 02

E2.02

Sheet

GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR PHASING REQUIREMENTS.

NUMBERED SHEET NOTES

[1] PROVIDE 120V POWER TO MECHANICAL TCP PANEL.

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POWER AND SIGNAL PLAN - LEVEL 03

E2.03

Sheet

DEMO GENERAL SHEET NOTES

D1. REFER TO MECHANICAL PLANS FOR PHASING OF WORK. ANY DISRUPTION OF POWER SHALL BE CONDUCTED AFTER HOURS AND ON WEEKENDS TO AVOID DISRUPTION DURING NORMAL BUSINESS HOURS.

DEMO NUMBERED SHEET NOTES

D1 REMOVE ALL ASSOCIATED EXPOSED CONDUIT, WIRE, ETC. BACK TO PANEL SOURCE.

GENERAL SHEET NOTES

1. REFER TO MECHANICAL PLANS FOR PHASING OF WORK. ANY DISRUPTION OF POWER SHALL BE CONDUCTED AFTER HOURS AND ON WEEKENDS TO AVOID DISRUPTION DURING NORMAL BUSINESS HOURS.
2. REFER TO POWER SINGLE LINE DIAGRAM FOR FEEDER SIZES TO EQUIPMENT, UON.

NUMBERED SHEET NOTES

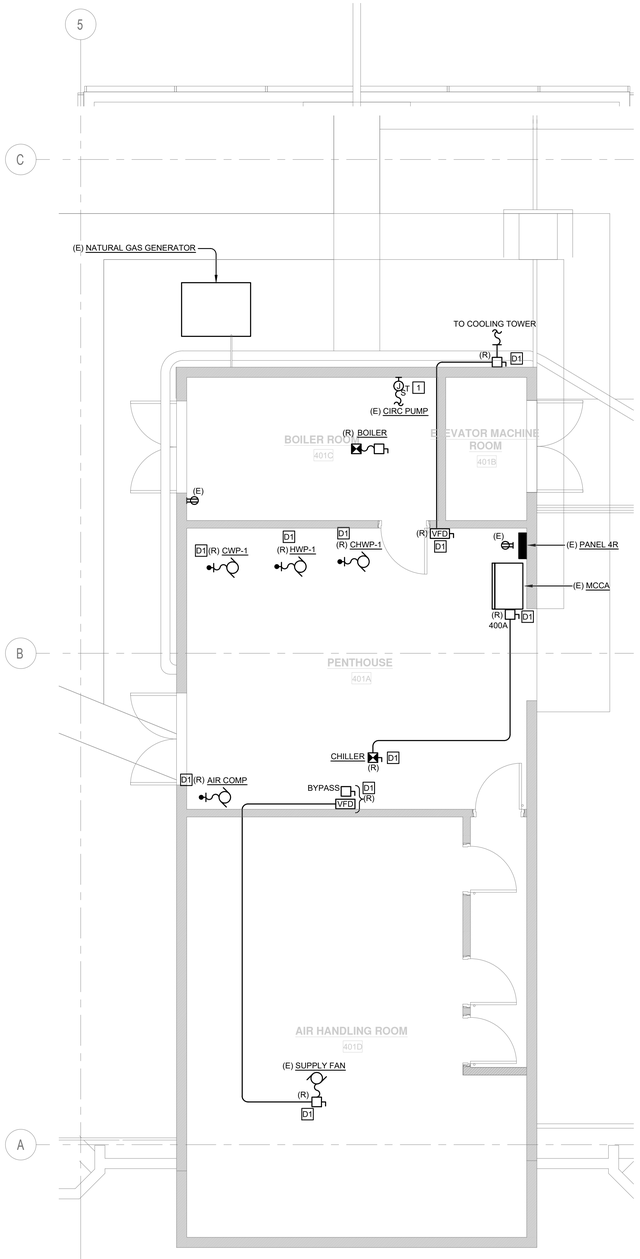
1 REUSE EXISTING 120V CIRCUIT FOR NEW REPLACEMENT CIRCULATION PUMP.

2 PROVIDE VFD RATED DISCONNECT WITH BREAK BEFORE BREAK AUXILIARY CONTACTS TO INTERLOCK WITH VFD SHUTDOWN WHEN DISCONNECT IS IN OPEN POSITION. PROVIDE 3/4" CONDUIT BETWEEN DISCONNECT AND VFD. LOW VOLTAGE WIRE BY DIV 23.

3 MOUNT DISCONNECT ON SIDE OF EQUIPMENT STRUCTURAL PLATFORM. PROVIDE STRUT AS NEEDED TO ATTACH TO PLATFORM.

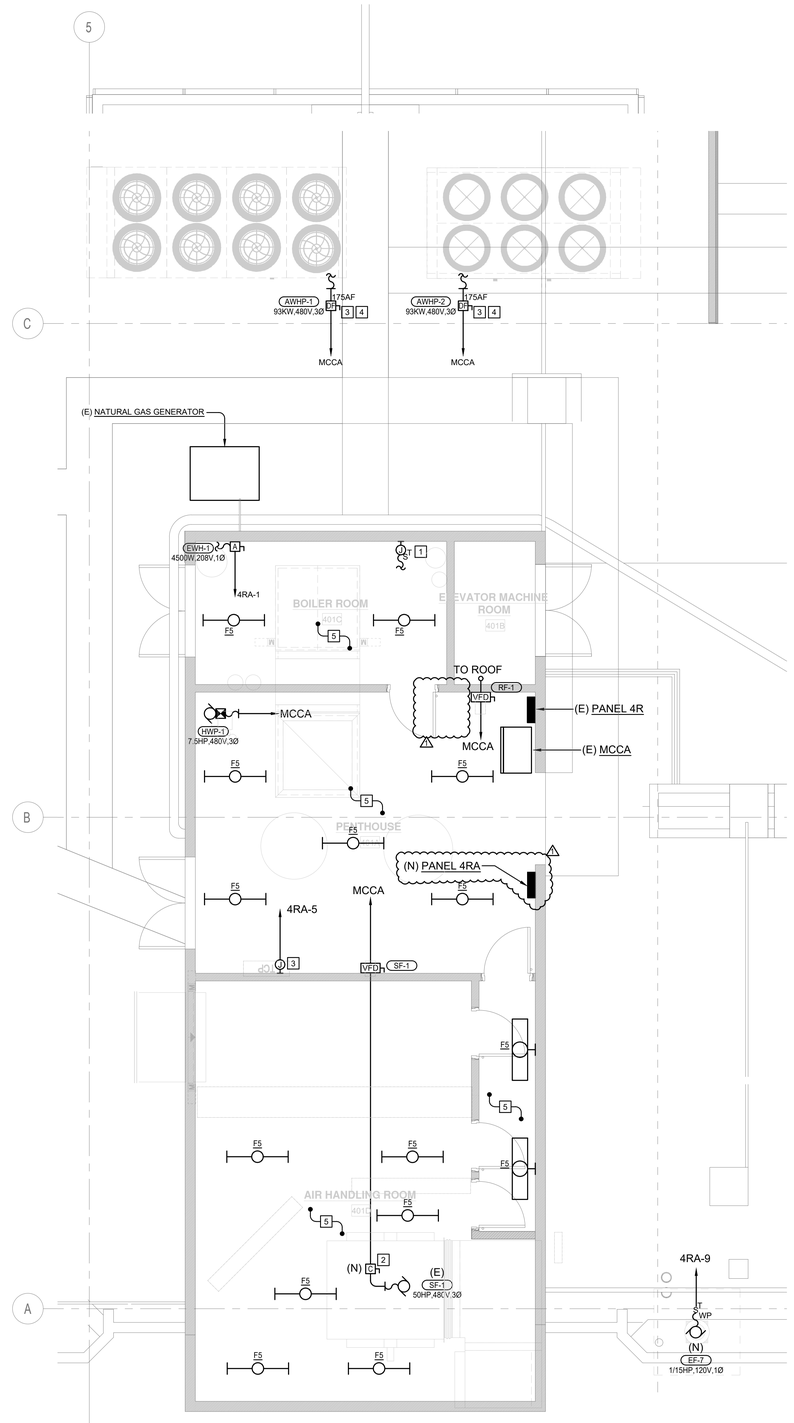
4 PROVIDE NEMA 3R DISCONNECT.

5 REPLACE ALL EXISTING LIGHT FIXTURES WITH NEW IN THIS SPACE. REUSE EXISTING BRANCH CIRCUIT AND CONTROLS.



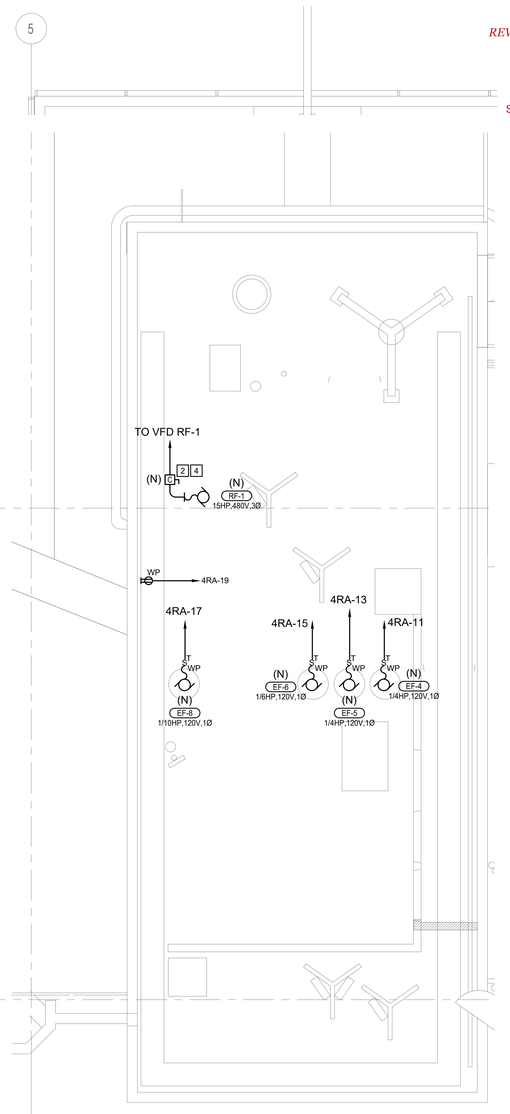
A E2.04 ELECTRICAL ROOF AND PENTHOUSE PLAN - DEMO

SCALE:1/4" = 1'-0"



B E2.04 POWER, LIGHTING AND SIGNAL ROOF AND PENTHOUSE PLAN - NEW

SCALE:1/4" = 1'-0"



C E2.04 POWER PENTHOUSE ROOF PLAN - NEW

SCALE:1/4" = 1'-0"

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Drawing Title

POWER, LIGHTING AND SIGNAL PLAN - ROOF/PENTHOUSE

E2.04

Sheet

NUMBERED SHEET NOTES

1. EXISTING TO REMAIN LIGHTING. NOT IN SCOPE OF WORK.
2. REFER TO A/E6.01 FOR TYPICAL SINGLE ZONE LIGHTING CONTROL ROOM LAYOUT.
3. REFER TO B/E6.01 FOR TYPICAL TWO ZONE LIGHTING CONTROL ROOM LAYOUT.
4. REFER TO C/E6.01 FOR TYPICAL THREE ZONE LIGHTING CONTROL ROOM LAYOUT.
5. REFER TO D/E6.01 FOR TYPICAL FOUR ZONE LIGHTING CONTROL ROOM LAYOUT.
6. REFER TO A/E6.02 FOR TYPICAL FIVE ZONE LIGHTING CONTROL ROOM LAYOUT.
7. SCENE CONTROLLER TO CONTROL 1ST FLOOR LOBBY LIGHTS AND 2ND LEVEL F5 LIGHTS ABOVE LOBBY.
8. REMOVE EXISTING LOW VOLTAGE SWITCH STATION USED FOR LOBBY, CORRIDORS AND STAIRWELLS AND ADD NEW BLANK COVERPLATE.
9. REPLACE EXISTING LCP WITH NEW. REFER TO LCP RELAY SCHEDULE, LIGHTING CONTROL RISER AND SPECIFICATIONS. REUSE EXISTING CONTROL POWER CIRCUIT (1R-29) FOR NEW PANEL.
10. PROVIDE SWITCH STATION WITH LOCKABLE COVERPLATE. CUT, PATCH, PAINT EXISTING WALL FOR NEW CORRIDOR AND LOBBY SCENE CONTROL STATION.
11. USE SAME CIRCUIT (1R-29) FOR THE NEW LCP PANEL TO POWER THE LIGHTING CONTROL NETWORK PANEL.

GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL PLANS FOR DEMOLITION OF EXISTING RCP, INCLUDING LUMINAIRES. IN GENERAL, LUMINAIRES ARE BEING REPLACED ONE-FOR-ONE. CONTRACTOR IS TO REUSE EXISTING BRANCH CIRCUIT(S) FROM DEMOLITION FOR NEW LUMIANIRES AND LIGHTING CONTROL. IN ADDITION TO BRANCH CIRCUITING, PROVIDE 0-10V DIMMING CONTROL WIRE TO EACH FIXTURE. REFER TO TYPICAL WIRING DIAGRAMS ON E6.01 AND E6.02.
2. REMOVE AND BLANK OFF ALL EXISTING WALLBOX LIGHTING CONTROLS. NEW WIRELESS CONTROLS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ADA HEIGHT REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO REMOVE ALL TOGGLE SWITCHES.
3. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR PROJECT PHASING.
4. NO INCREASE IN LOAD FOR NEW FIXTURES. NEW FIXTURES ARE A DECREASE IN LOAD ON THE BUILDING DISTRIBUTION SYSTEM.
5. PROVIDE AN ADDITIONAL NON-SWITCHED SENSING HOT TO EACH EMERGENCY FIXTURE INTEGRAL BATTERY.
6. PROVIDE NON-SWITCHED LIGHTING CIRCUIT TO EMERGENCY EXIT SIGNS.
7. EXTERIOR, LOBBY AND CORRIDOR LIGHTING SHALL ROUTE THROUGH THE NEW LCP RELAY PANEL LOCATED IN ELECTRICAL ROOM 115. REUSE EXISTING CIRCUITS, BUT RE-WIRE PER SWITCHING LEG SHOWN FOR THE LOBBIES AND CORRIDORS. 'NL' (NIGHT LIGHTING) TO BE ALWAYS ON.

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LIGHTING PLAN - LEVEL 01

E3.01

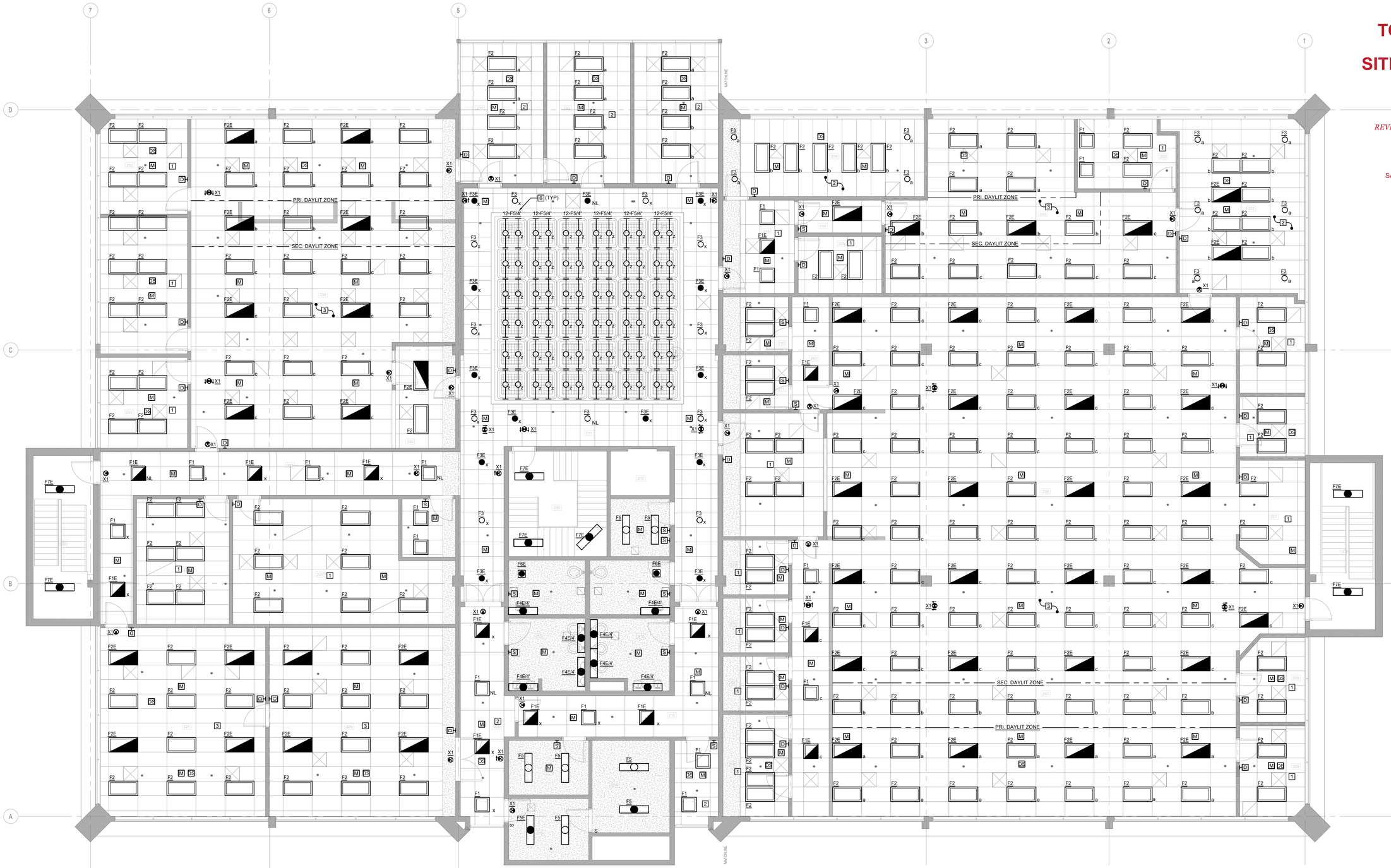
Sheet

NUMBERED SHEET NOTES

1. REFER TO A/E6.01 FOR TYPICAL SINGLE ZONE LIGHTING CONTROL ROOM LAYOUT.
2. REFER TO B/E6.01 FOR TYPICAL TWO ZONE LIGHTING CONTROL ROOM LAYOUT.
3. REFER TO C/E6.01 FOR TYPICAL THREE ZONE LIGHTING CONTROL ROOM LAYOUT.
4. REFER TO D/E6.01 FOR TYPICAL FOUR ZONE LIGHTING CONTROL ROOM LAYOUT.
5. CORRIDOR MANUAL CONTROL STATION FOR AUTHORIZED PERSONNEL.
6. FIXTURE CONTROLLED BY SCENE CONTROL STATION NEAR LOBBY SECURITY DESK ON ON LEVEL 1. REFER TO LEVEL 1 LIGHTING PLAN.

GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL PLANS FOR DEMOLITION OF EXISTING RCP, INCLUDING LUMINAIRES. IN GENERAL, LUMINAIRES ARE BEING REPLACED ONE-FOR-ONE. CONTRACTOR IS TO REUSE EXISTING BRANCH CIRCUIT(S) FROM DEMOLITION FOR NEW LUMINAIRES AND LIGHTING CONTROL. IN ADDITION TO BRANCH CIRCUITING, PROVIDE 0-10V DIMMING CONTROL WIRE TO EACH FIXTURE. REFER TO TYPICAL WIRING DIAGRAMS ON E6.01 AND E6.02.
2. REMOVE AND BLANK OFF ALL EXISTING WALLBOX LIGHTING CONTROLS. NEW WIRELESS CONTROLS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ADA HEIGHT REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO REMOVE ALL TOGGLE SWITCHES.
3. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR PROJECT PHASING.
4. NO INCREASE IN LOAD FOR NEW FIXTURES. NEW FIXTURES ARE A DECREASE IN LOAD ON THE BUILDING DISTRIBUTION SYSTEM.
5. PROVIDE AN ADDITIONAL NON-SWITCHED SENSING HOT TO EACH EMERGENCY FIXTURE INTEGRAL BATTERY.
6. PROVIDE NON-SWITCHED LIGHTING CIRCUIT TO EMERGENCY EXIT SIGNS.



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Drawing Title

LIGHTING PLAN - LEVEL 02

E3.02

Sheet

NUMBERED SHEET NOTES

1. REFER TO A/E6.01 FOR TYPICAL SINGLE ZONE LIGHTING CONTROL ROOM LAYOUT.
2. REFER TO B/E6.01 FOR TYPICAL TWO ZONE LIGHTING CONTROL ROOM LAYOUT.
3. REFER TO C/E6.01 FOR TYPICAL THREE ZONE LIGHTING CONTROL ROOM LAYOUT.
4. REFER TO D/E6.01 FOR TYPICAL FOUR ZONE LIGHTING CONTROL ROOM LAYOUT.
5. REFER TO A/E6.02 FOR TYPICAL FIVE ZONE LIGHTING CONTROL ROOM LAYOUT.
6. EXISTING LIGHT FIXTURES AND LIGHTING CONTROLS TO REMAIN IN THIS AREA. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS FOR ANY TEMPORARY REMOVAL OF EXISTING LIGHT FIXTURES IN THIS AREA DUE TO MECHANICAL UPGRADES.

GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL PLANS FOR DEMOLITION OF EXISTING RCP, INCLUDING LUMINAIRES. IN GENERAL, LUMINAIRES ARE BEING REPLACED ONE-FOR-ONE. CONTRACTOR IS TO REUSE EXISTING BRANCH CIRCUIT(S) FROM DEMOLITION FOR NEW LUMINAIRES AND LIGHTING CONTROL. IN ADDITION TO BRANCH CIRCUITING, PROVIDE 0-10V DIMMING CONTROL WIRE TO EACH FIXTURE. REFER TO TYPICAL WIRING DIAGRAMS ON E6.01 AND E6.02.
2. REMOVE AND BLANK OFF ALL EXISTING WALLBOX LIGHTING CONTROLS. NEW WIRELESS CONTROLS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ADA HEIGHT REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO REMOVE ALL TOGGLE SWITCHES.
3. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR PROJECT PHASING.
4. NO INCREASE IN LOAD FOR NEW FIXTURES. NEW FIXTURES ARE A DECREASE IN LOAD ON THE BUILDING DISTRIBUTION SYSTEM.
5. PROVIDE AN ADDITIONAL NON-SWITCHED SENSING HOT TO EACH EMERGENCY FIXTURE INTEGRAL BATTERY.
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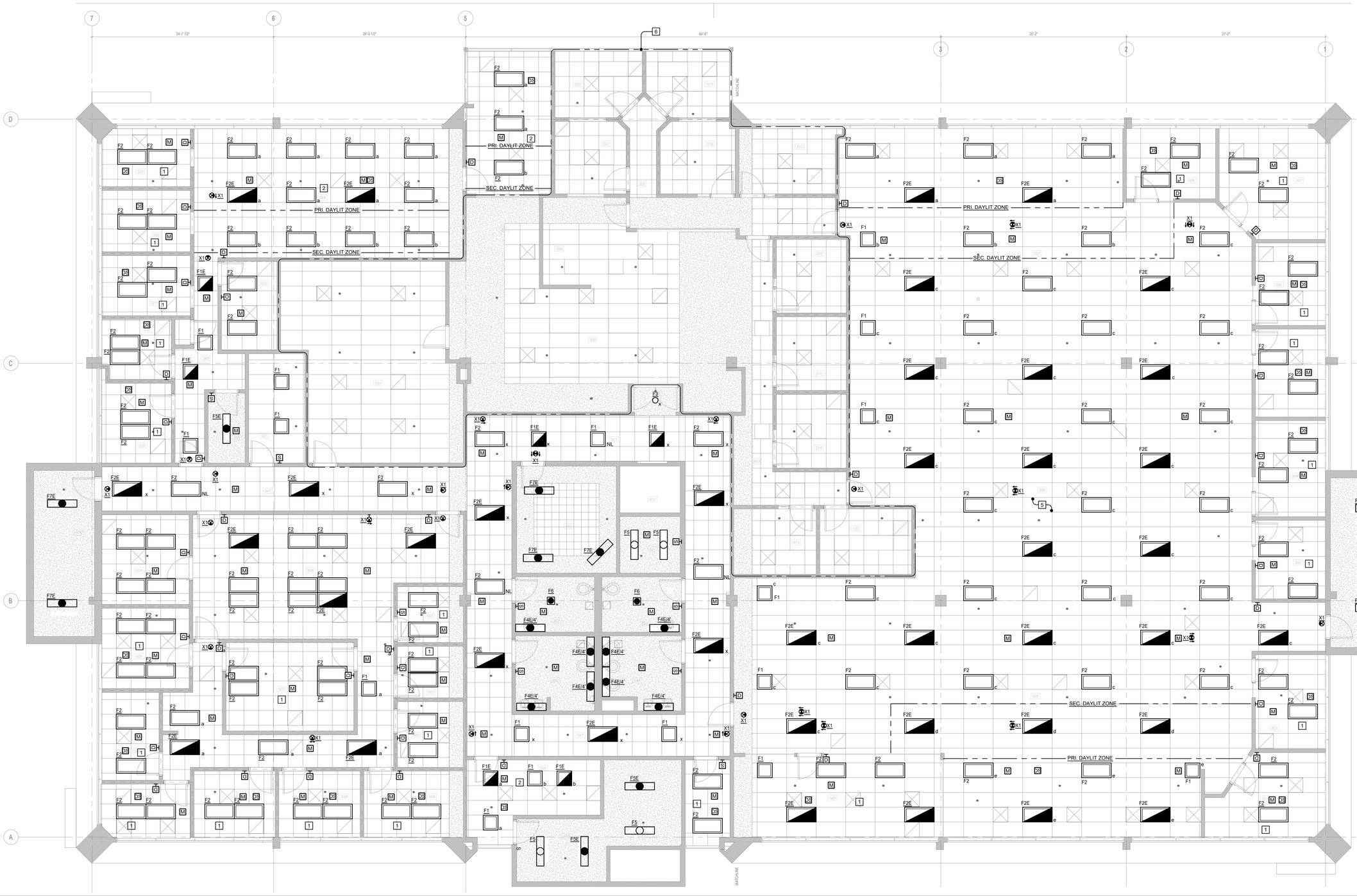

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LIGHTING PLAN - LEVEL 03

E3.03

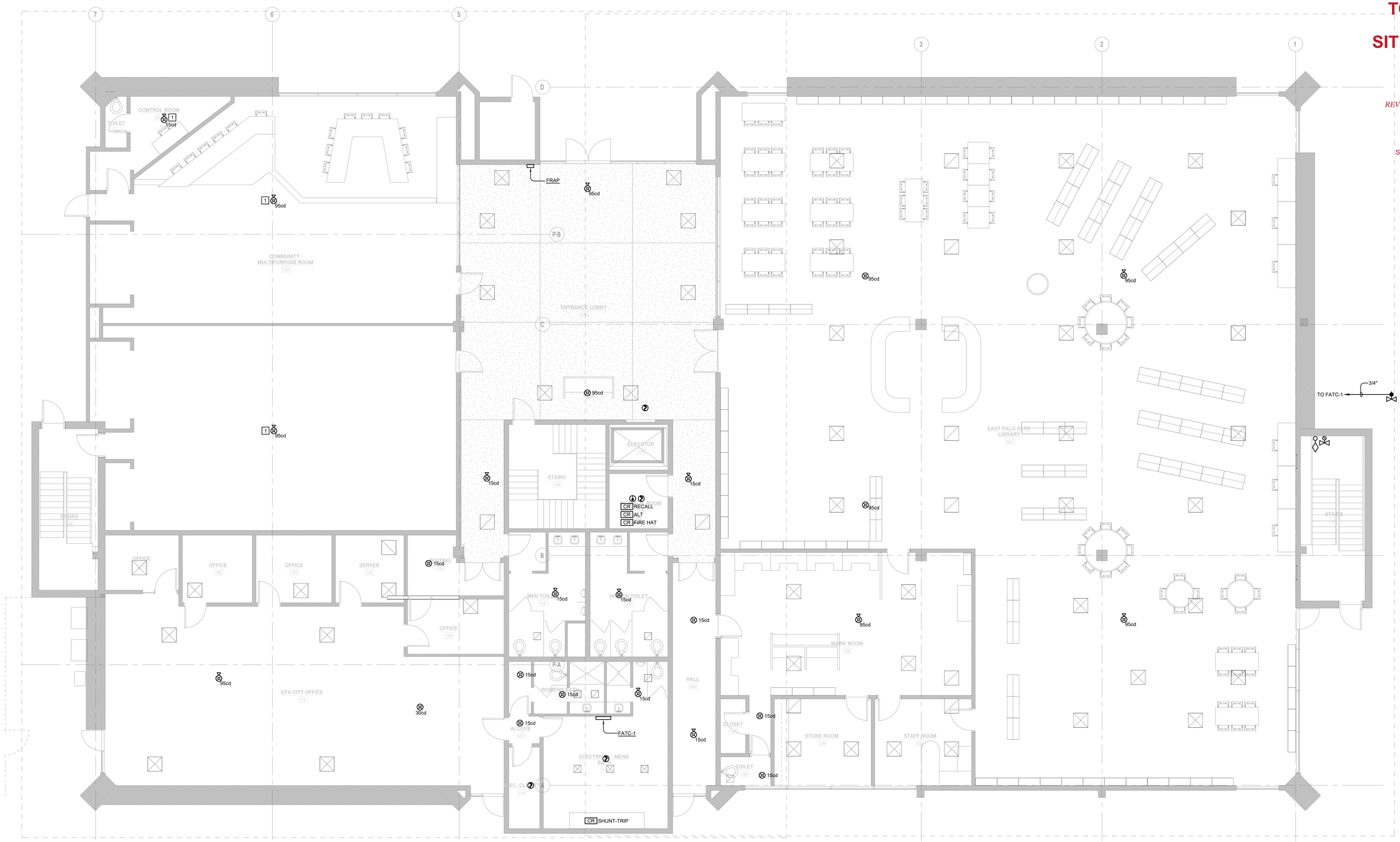
Sheet

GENERAL SHEET NOTES

1. FIRE ALARM DRAWINGS ARE FOR PRICING PURPOSES ONLY. CONDUIT AND WIRE ARE OMITTED FROM THE PLANS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ENGINEERED (STAMPED AND SIGNED) SHOP DRAWINGS APPROVED BY THE AHJ.

NUMBERED SHEET NOTES

[1] BUILD-OUT FOR THIS AREA INCLUDING CEILING REDESIGN IS BY OTHERS. FURNISH AND INSTALL NEW DEVICE. COORDINATE INSTALLATION WITH OWNER AND SEPARATE CONTRACTOR.



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FIRE ALARM PLAN - LEVEL 01

E4.01

Sheet

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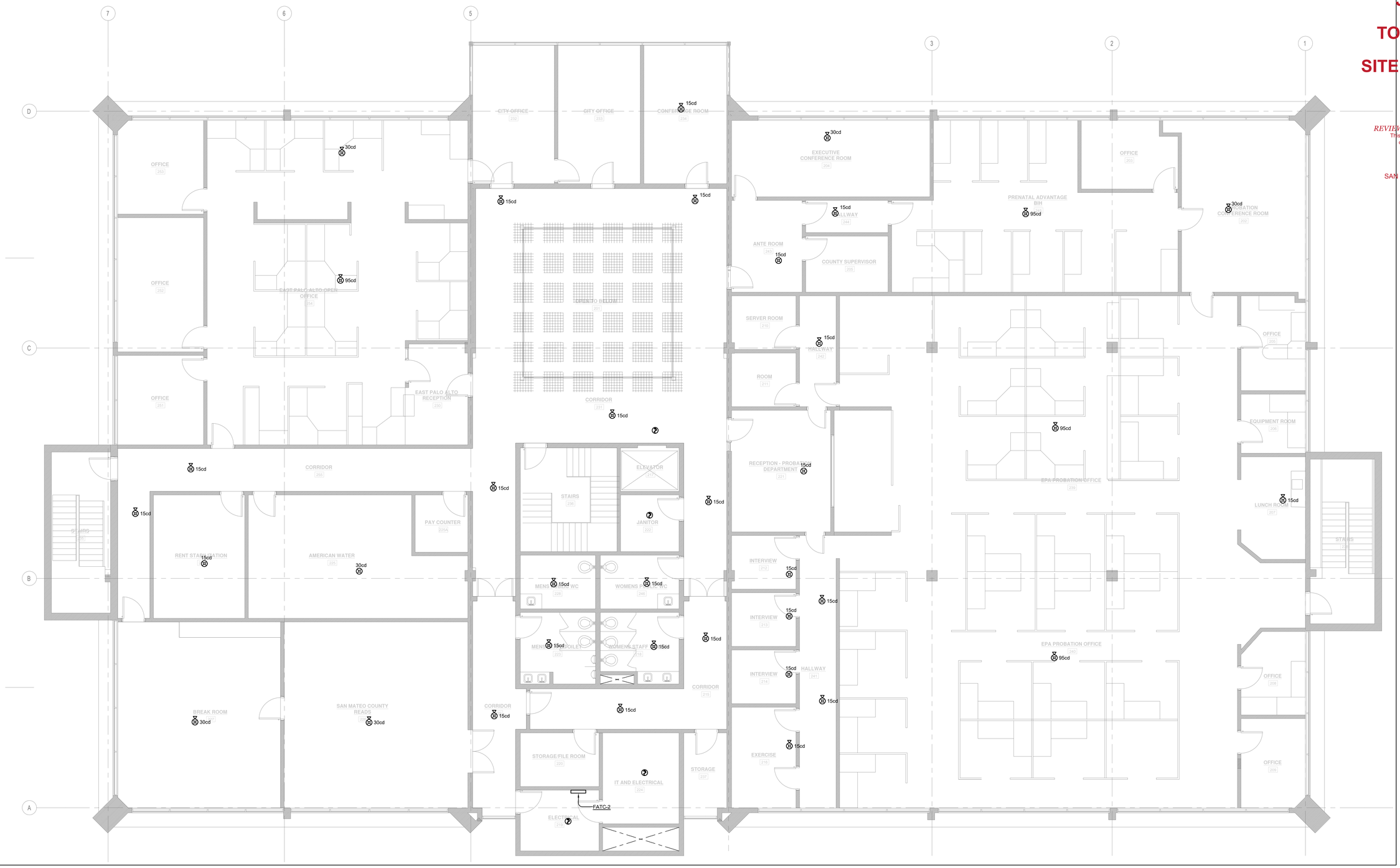

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FIRE ALARM PLAN - LEVEL 02

E4.02

Sheet

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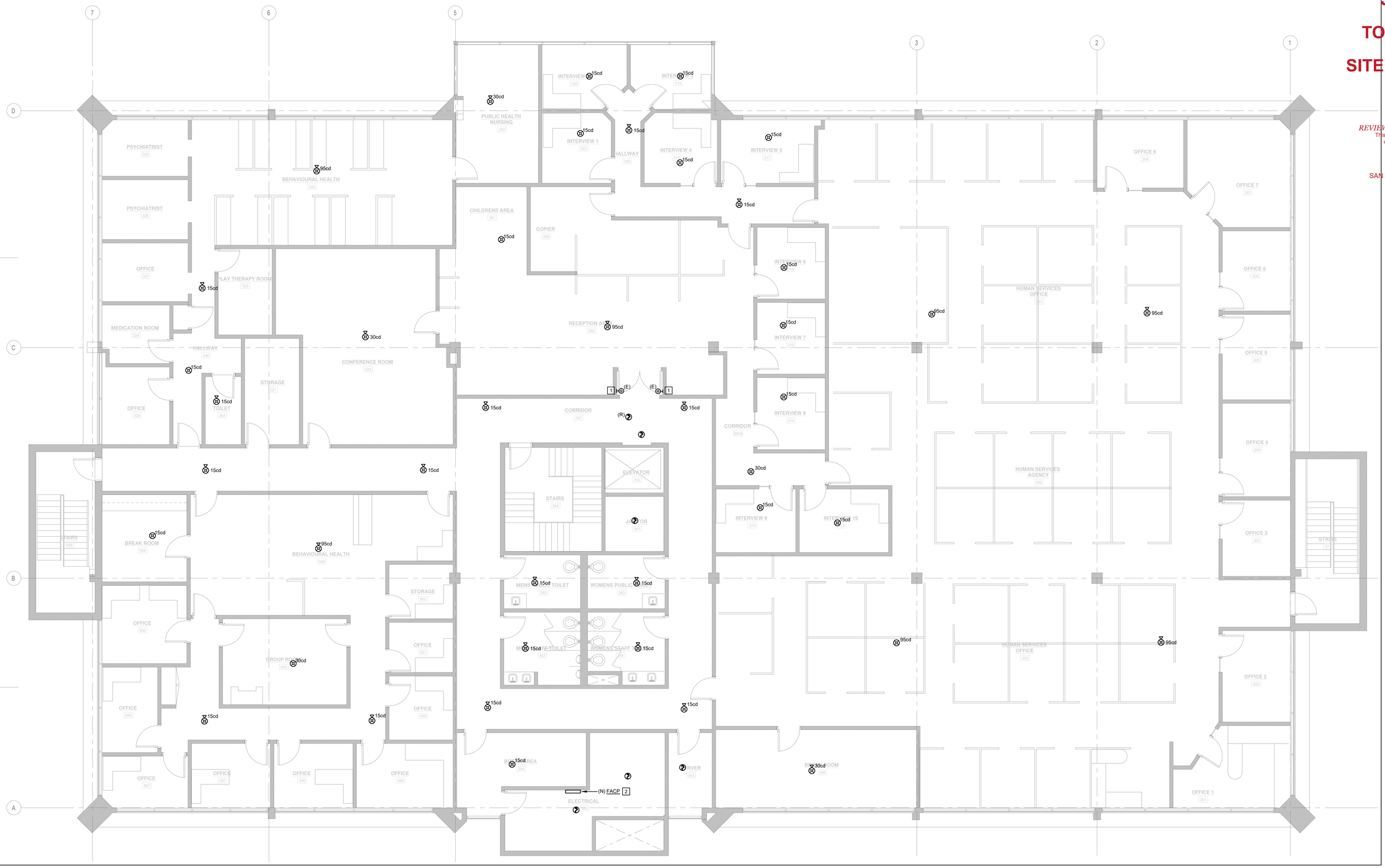
NUMBERED SHEET NOTES

[1] EXISTING HOLD OPENS SHALL CONNECT TO NEW FIRE ALARM SYSTEM.

[2] REMOVE EXISTING FIRE ALARM PANEL AND REPLACE WITH NEW.



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FIRE ALARM PLAN - LEVEL 03

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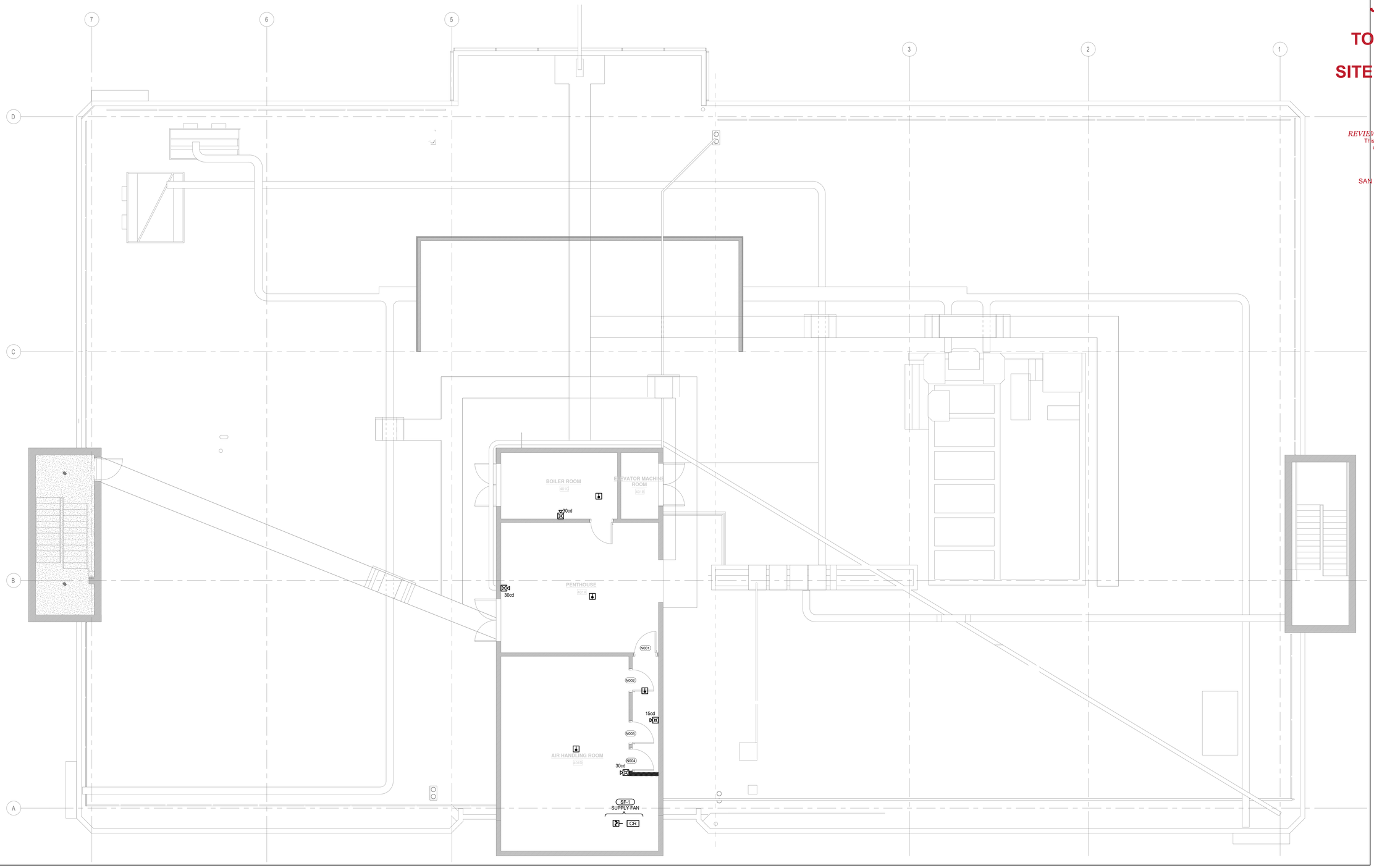

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ELECTRICAL
STATE OF CALIFORNIA

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REVIEWED FOR CODE COMPLIANCE
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Apr 30 2022

SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

Rev	Date	By	Description
	11/05/21		PERMIT SUBMITTAL
	9/06/22		Issued for Bid

Drawn By	KH
Checked By	KM
Job No.	20035
Issue Date	02/04/2022
Scale	3/16" = 1'-0"

Drawing Title

FIRE ALARM PLAN - ROOF/PENTHOUSE

E4.04

Sheet

EPA GOVT CENTER - NEW LOAD SUMMARY

Area Description	Load Value	Load Units	Peak Demand	Units	Notes
Utility Monthly Peak Loads					
Apr-18			127	kw	
May-18			109	kw	
Jun-18			113	kw	
Jul-18			115	kw	
Aug-18			116	kw	
Sep-18			118	kw	
Oct-18			128	kw	
Nov-18			134	kw	
Dec-18			139	kw	
Jan-19			123	kw	
Feb-19			129	kw	
Mar-19			138	kw	
Apr-19			118	kw	
May-19			115	kw	
Jun-19			111	kw	
Jul-19			135	kw	
Aug-19			136	kw	
Sep-19			138	kw	
Oct-19			145	kw	
Nov-19			138	kw	
Dec-19			138	kw	
Jan-20			114	kw	
Feb-20			113	kw	
Mar-20			123	kw	
Apr-20			112	kw	
Peak Load:			145	kw	Oct-19
MSB Load Calculation					
MSB Peak Demand (Oct-19)			144,640	w	
x1.25%			180,800	va	
New Loads (1)			249,873	va	
Removed Loads (1)			(211,527)	va	
Total Load:			**219,146**	**va**	
Total Amps:			**609**	**amps**	

Notes:
(1) Refer to Load Calcs spreadsheet.

General Notes:
1. Peak demand over a one year period was observed
2. 1600 Amp 277/480V, 3P, 4W existing service size/main.

EPA GOVT CENTER ELECTRICAL LOAD CALCS

Area Description	Load Value	Load Units	Load	Units
Building Square Footage				
Level 1	16163	sqft		
Level 2	16207	sqft		
Level 3	16207	sqft		
Penthouse	1243	sqft		
Lighting Loads				
Level 1	6.3	kw	6,300	w
Level 2	6.3	kw	6,300	w
Level 3	6.3	kw	6,300	w
Penthouse	1.0	kw	1,000	w
Total:			19,900	w
Mechanical Loads (New)				
AWHP-1	93	kw	93,000	w
AWHP-2	93	kw	93,000	w
HWP-1	7.5	hp	9,134	w
EWH-1	4.5	kw	4,500	w
RF-1	15	hp	17,438	w
Misc Exhaust Fans	2.5	kw	2,500	w
Fan Power Boxes	10.4	kw	10,400	w
Total:			229,973	w
Mechanical Loads (Removed)				
Chiller	172	kw	172,000	w
Cooling Tower	15	hp	17,438	w
CWP	7.5	hp	9,134	w
CHWP	7.5	hp	9,134	w
HWP	3	hp	3,820	w
Total:			211,527	w
Total:			18,446	w
Total Loads			38,346	w

COPPER FEEDER SCHEDULE

FEEDER TAG	FEEDER DESCRIPTION	CONDUIT	CONDUCTORS PHASE/NEUTRAL	CONDUCTORS GROUND	REMARKS
2254	225 AMP,3 PHASE,4 WIRE	1-2.50"	4 #4/0	1 #4	-
2253	225 AMP,3 PHASE,3 WIRE	1-2.00"	3 #4/0	1 #4	-
2004	200 AMP,3 PHASE,4 WIRE	1-2.00"	4 #3/0	1 #6	-
2003	200 AMP,3 PHASE,3 WIRE	1-2.00"	3 #3/0	1 #6	-
1754	175 AMP,3 PHASE,4 WIRE	1-2.00"	4 #2/0	1 #6	-
1753	175 AMP,3 PHASE,3 WIRE	1-2.00"	3 #2/0	1 #6	-
1504	150 AMP,3 PHASE,4 WIRE	1-2.00"	4 #1/0	1 #6	-
1503	150 AMP,3 PHASE,3 WIRE	1-1.50"	3 #1/0	1 #6	-
1254	125 AMP,3 PHASE,4 WIRE	1-1.50"	4 #1	1 #6	-
1253	125 AMP,3 PHASE,3 WIRE	1-1.25"	3 #1	1 #6	-
1004	95 AMP,3 PHASE,4 WIRE	1-1.25"	4 #2	1 #8	②
1003	95 AMP,3 PHASE,3 WIRE	1-1.25"	3 #2	1 #8	②
904	85 AMP,3 PHASE,4 WIRE	1-1.25"	4 #3	1 #8	②
903	85 AMP,3 PHASE,3 WIRE	1-1.25"	3 #3	1 #8	②
804	80 AMP,3 PHASE,4 WIRE	1-1.25"	4 #3	1 #8	-
803	80 AMP,3 PHASE,3 WIRE	1-1.25"	3 #3	1 #8	-
704	70 AMP,3 PHASE,4 WIRE	1-1.25"	4 #4	1 #8	-
703	70 AMP,3 PHASE,3 WIRE	1-1.00"	3 #4	1 #8	-
604	55 AMP,3 PHASE,4 WIRE	1-1.00"	4 #6	1 #10	②
603	55 AMP,3 PHASE,3 WIRE	1-0.75"	3 #6	1 #10	② ③
504	50 AMP,3 PHASE,4 WIRE	1-1.00"	4 #6	1 #10	-
503	50 AMP,3 PHASE,3 WIRE	1-0.75"	3 #6	1 #10	-
404	40 AMP,3 PHASE,4 WIRE	1-0.75"	4 #8	1 #10	-
403	40 AMP,3 PHASE,3 WIRE	1-0.75"	3 #8	1 #10	-
304	30 AMP,3 PHASE,4 WIRE	1-0.75"	4 #10	1 #10	-
303	30 AMP,3 PHASE,3 WIRE	1-0.75"	3 #10	1 #10	-
204	20 AMP,3 PHASE,4 WIRE	1-0.50"	4 #12	1 #12	-
203	20 AMP,3 PHASE,3 WIRE	1-0.50"	3 #12	1 #12	-
154	15 AMP,3 PHASE,4 WIRE	1-0.50"	4 #12	1 #12	-
153	15 AMP,3 PHASE,3 WIRE	1-0.50"	3 #12	1 #12	-

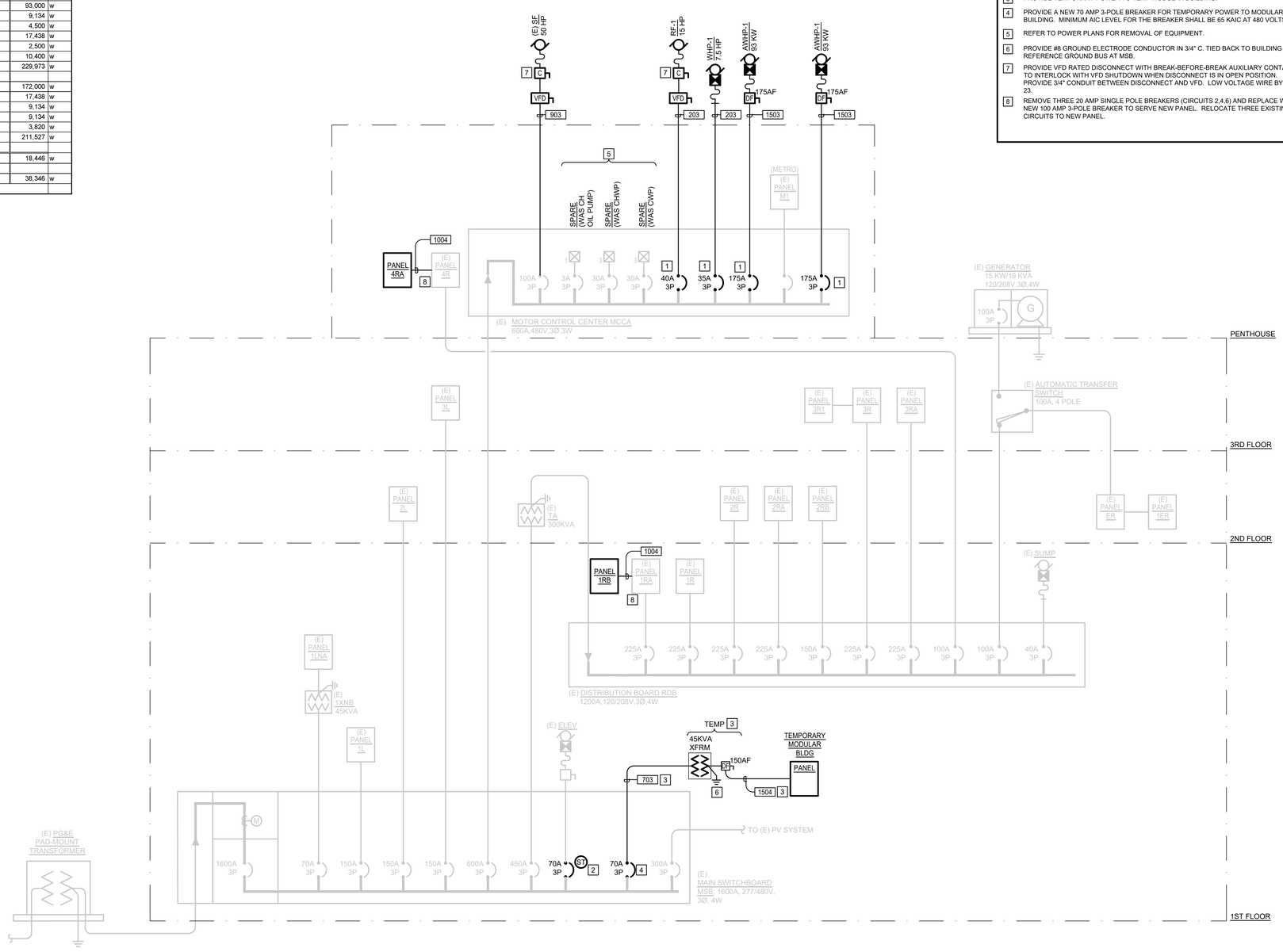
FEEDER SCHEDULE GENERAL NOTES

1. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH DUAL RATED THHN/THWN-2 INSULATION IN AMBIENT TEMPERATURE OF 30° C (86° F) AND EMT CONDUIT.
2. FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS AND CONDUITS ARE TO BE PROVIDED WITH THE INDICATED SIZE GROUND CONDUCTOR IN EACH CONDUIT.

FEEDER SCHEDULE REMARK

② PER CEC SECTION 240.4(B), THE NEXT HIGHER STANDARD OVERCURRENT DEVICE RATING (ABOVE THE AMPACITY OF THE CONDUCTORS) CAN BE USED. RULE CAN NOT BE APPLIED IF 100% RATED BREAKERS ARE USED.

③ INCREASE CONDUIT TO THE NEXT LARGER TRADE SIZE WHEN USING SCHEDULE 40 OR 80 PVC CONDUIT.



A E501 POWER RISER DIAGRAM

N.T.S.

GENERAL SHEET NOTES

1. REFER TO MECHANICAL PLANS FOR PHASING OF PROJECT TO SWITCH OVER TO NEW EQUIPMENT. SWITCHOVER TO NEW EQUIPMENT SHALL BE DONE IN A COORDINATED AND TIMELY FASHION TO MINIMIZE DOWNTIME.
2. EXISTING EQUIPMENT SHOWN SHADED ON THE POWER SINGLE LINE DIAGRAM.

NUMBERED SHEET NOTES

1. REMOVE EXISTING BREAKER AND STARTER FOR REMOVED MECHANICAL EQUIPMENT TO FREE UP SPACE IN BUCKET FOR NEW BREAKER. PROVIDE NEW BREAKER IN BUCKET. MODIFY MCC AS NECESSARY TO ACCOMMODATE NEW BREAKER. NEW BREAKER SHALL HAVE A MINIMUM 42 KAIC RATING AT 480V.
2. REPLACE EXISTING 70 AMP 3-POLE BREAKER WITH A NEW 70 AMP 3-POLE BREAKER WITH A SHUNT TRIP. PROVIDE 120 VOLT POWER (DEDICATED BRANCH CIRCUIT) TO SHUNT TRIP UNIT. MONITOR BRANCH CIRCUIT POWER THROUGH THE NEW FIRE ALARM PANEL. NEW BREAKER SHALL HAVE A MINIMUM 65 KAIC RATING AT 480 VOLT.
3. PROVIDE TEMPORARY POWER TO TEMP MODULAR BUILDING.
4. PROVIDE A NEW 70 AMP 3-POLE BREAKER FOR TEMPORARY POWER TO MODULAR BUILDING. MINIMUM AIC LEVEL FOR THE BREAKER SHALL BE 65 KAIC AT 480 VOLTS.
5. REFER TO POWER PLANS FOR REMOVAL OF EQUIPMENT.
6. PROVIDE #8 GROUND ELECTRODE CONDUCTOR IN 3/4" C. TIED BACK TO BUILDING MAIN REFERENCE GROUND BUS AT MSB.
7. PROVIDE VFD RATED DISCONNECT WITH BREAK-BEFORE-BREAK AUXILIARY CONTACTS TO INTERLOCK WITH VFD SHUTDOWN WHEN DISCONNECT IS IN OPEN POSITION. PROVIDE 3/4" CONDUIT BETWEEN DISCONNECT AND VFD. LOW VOLTAGE WIRE BY DIV 23.
8. REMOVE THREE 20 AMP SINGLE POLE BREAKERS (CIRCUITS 2,4,6) AND REPLACE WITH NEW 100 AMP 3-POLE BREAKER TO SERVE NEW PANEL. RELOCATE THREE EXISTING CIRCUITS TO NEW PANEL.

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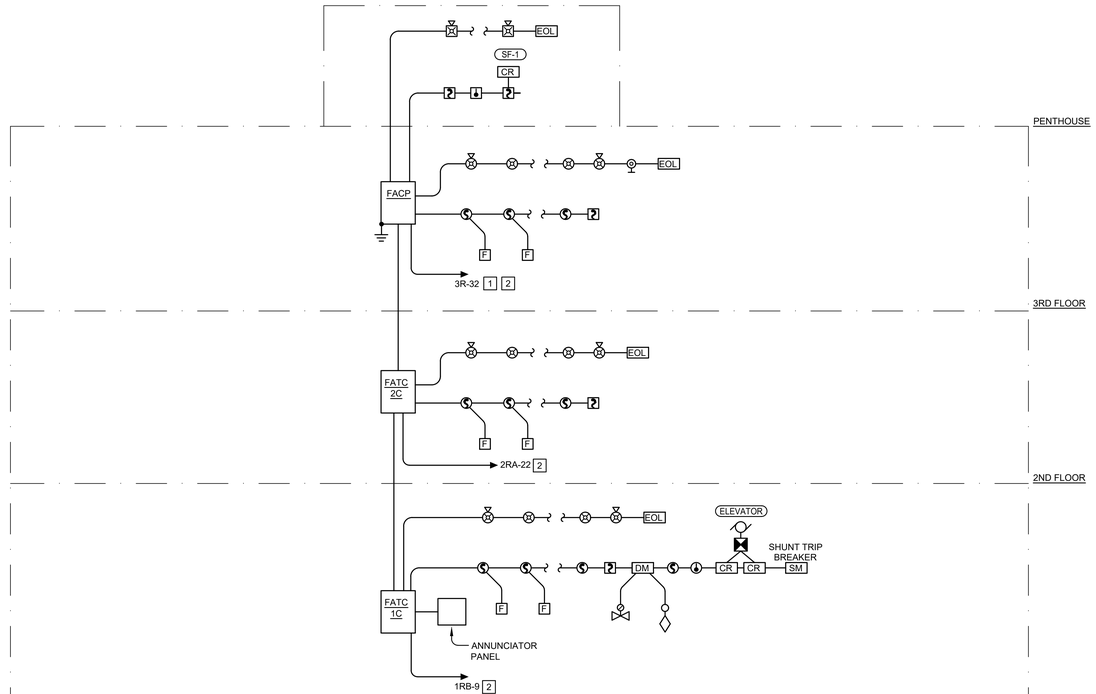
POWER SINGLE LINE DIAGRAM

E5.01

Sheet

FIRE ALARM SEQUENCE OF OPERATION MATRIX

SYSTEM OPERATION INPUT SIGNALS AND OUTPUT FUNCTIONS / SYSTEM OUTPUTS	FACP ANNUNCIATION									NOTIFICATION								EQUIPMENT CONTROLLED						
SYSTEM INPUTS	ACTUATE ALARM SIGNAL INDICATOR (RED LED)	ACTUATE ALARM SIGNAL AUDIBLE (BUZZER)	ACTUATE TROUBLE SIGNAL INDICATOR (AMBER LED)	ACTUATE TROUBLE SIGNAL AUDIBLE(BUZZER)	ACTUATE SUPERVISORY SIGNAL INDICATOR (AMBER LED)	ACTUATE SUPERVISORY SIGNAL AUDIBLE (BUZZER)	INDICATE INPUT SIGNAL ON LCD DISPLAY	ACTUATE INDICATORS ON FAN & DAMPER CONTROL PANEL	ACTIVATE AUDIBLE & VISUAL EVACUATION FOR BUILDING	TRANSMIT ALARM SIGNAL TO REMOTE ANNUNCIATOR	TRANSMIT TROUBLE SIGNAL TO REMOTE ANNUNCIATOR	TRANSMIT SUPERVISORY SIGNAL TO REMOTE ANNUNCIATOR	TRANSMIT ALARM SIGNAL TO MONITORING COMPANY	TRANSMIT TROUBLE SIGNAL TO MONITORING COMPANY	TRANSMIT SUPERVISORY SIGNAL TO MONITORING COMPANY	DOOR HOLD/OPEN RELEASE	ELEVATOR RECALL TO 1ST FLOOR	ELEVATOR RECALL TO ALTERNATE FLOOR	SHUNT-TRIP ASSOCIATED POWER	SHUTDOWN ASSOCIATED HVAC UNIT	CLOSE FIRE/SMOKE DAMPERS ON A PER FLOOR BASIS	FIRE/SMOKE DAMPER FAULT
MANUAL PULL STATION	●	●					●		●	●			●			●						●	
AREA SMOKE DETECTOR	●	●					●	●	●	●			●			●						●	
AREA HEAT DETECTOR	●	●					●	●	●	●			●			●							
ELEVATOR INTERFACE INPUTS:																							
LOBBY SMOKE DETECTOR, EXCEPT 1ST FLR	●	●					●	●	●	●			●			●	●					●	
LOBBY SMOKE DETECTOR @ 1ST FLR	●	●					●	●	●	●			●			●		●				●	
MACHINE ROOM SMOKE DETECTOR	●	●					●	●	●	●			●			●	●					●	
ELEVATOR SHAFT SMOKE DETECTOR	●	●					●		●	●			●			●	●						
MACHINE ROOM HEAT DETECTOR	●	●					●	●	●	●			●			●				●			
ELEVATOR SHAFT HEAT DETECTOR	●	●					●		●	●			●			●				●			
DUCT-MTD SMOKE DETECTOR @ HVAC UNIT					●	●	●					●			●						●		
SURFACE PLENUM SMOKE DETECTOR @ FSD					●	●	●					●			●							●	
WATERFLOW SWITCH	●	●					●	●	●	●				●		●							
VALVE TAMPER SWITCH					●	●	●					●			●								
POST INDICATING VALVE					●	●	●					●			●								
INITIATING CIRCUIT:																							
OPEN WIRE			●	●			●					●			●								
GROUNDED WIRE			●	●			●					●			●								
SHORTED WIRES	●	●					●		●	●					●								
NOTIFICATION CIRCUIT:																							
OPEN WIRE			●	●			●					●			●								
GROUNDED WIRE			●	●			●					●			●								
SHORTED WIRES			●	●			●					●			●								
SIGNALING LINE CIRCUIT:																							
OPEN WIRE			●	●			●					●			●								
GROUNDED WIRE			●	●			●					●			●								
WIRE TO WIRE SHORT & OPEN			●	●			●					●			●								
WIRE TO WIRE SHORT & GROUND			●	●			●					●			●								
OPEN & GROUND			●	●			●					●			●								
LOSS OF CARRIER			●	●			●					●			●								
POWER DISCONNECT SUPERVISION					●	●	●	●					●			●							●
FIRE ALARM SYSTEM LOW BATTERY			●	●			●					●			●								



A E502 FIRE ALARM RISER DIAGRAM

N.T.S.

GENERAL SHEET NOTES

1. NOT ALL EQUIPMENT HAS BEEN SHOWN ON THIS RISER DIAGRAM. THIS DRAWING IS MAINLY TO ILLUSTRATE THE GENERAL RISER CONFIGURATION WITHIN THE BUILDING AND CONNECTIONS TO CABINETS AND PANELS.
2. REFER TO ELECTRICAL SPECIFICATIONS FOR MORE DETAILED DESCRIPTION OF THE SYSTEM AND EQUIPMENT REQUIREMENTS.

NUMBERED SHEET NOTES

[1] REUSE EXISTING BRANCH CIRCUIT FROM OLD FACP BEING REPLACED.

[2] CIRCUIT BREAKER FEEDING FIRE ALARM CONTROL PANEL(S) SHALL BE RED IN COLOR. REPLACE BREAKER WITH NEW IF NECESSARY.

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Drawing Title

FIRE ALARM RISER DIAGRAM AND SEQ OF OPERATION

E5.02

Sheet

GENERAL SHEET NOTES

1. REUSE EXISTING BRANCH CIRCUIT WIRE TO FIXTURE WHERE POSSIBLE. NEW WIRING REQUIRED FOR MULTI-ZONED ROOMS. NEW 0-10V REQUIRED FOR ALL DIMMING ZONES.

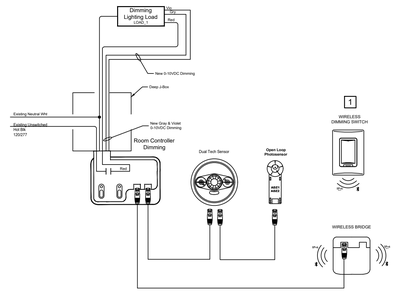
NUMBERED SHEET NOTES

1 PROVIDE QUANTITY OF SWITCH STATIONS AS NOTED ON THE PLANS.

Single Zone with Auto-On/Auto-Off and Daylighting

TYPICAL DRAWING DETAIL NOTES

1. Follow manufacturer instructions for proper product placement, installation, wiring and operation.
2. Diagram is typical for space type. Provide proper quantity and type of occupancy sensors, switches, room controllers, daylighting sensors, etc., per code requirement for each space.
3. In a typical commercial building environment, to ensure IPV6 wireless communication,
   - 3.1. All battery powered wireless devices (sensors and switches) shall be mounted within 60ft of the wireless room controller or hybrid wireless network bridge to which it is intended to be paired with.
   - 3.2. All constant powered wireless devices (room controllers, network bridges, and border routers) shall be mounted within 100ft of each other and be joined on the same wireless network
   - 3.3. Wireless distances include wireless signal through two typical interior drywall partitions, building construction of concrete, block, or metal walls between wireless devices may reduce this range.



A E601 SINGLE ZONE WIRELESS HYBRID DETAIL

N.T.S.

Two Zone with Auto-On/Auto-Off and Daylighting

TYPICAL DRAWING DETAIL NOTES

1. Follow manufacturer instructions for proper product placement, installation, wiring and operation.
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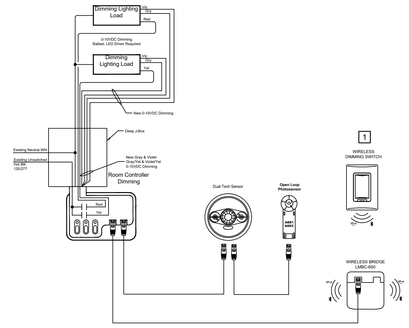


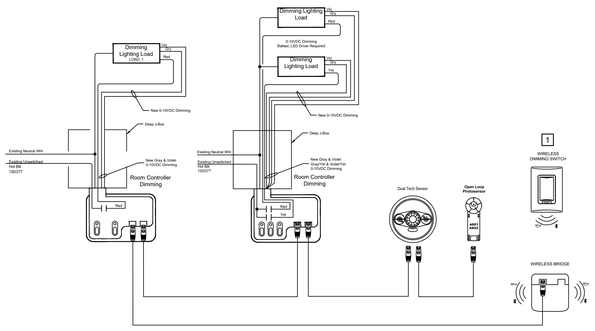
B E601 TWO ZONE WIRELESS HYBRID DETAIL

N.T.S.

Three Zone with Auto-On/Auto-Off and Daylighting

TYPICAL DRAWING DETAIL NOTES

1. Follow manufacturer instructions for proper product placement, installation, wiring and operation.
2. Diagram is typical for space type. Provide proper quantity and type of occupancy sensors, switches, room controllers, daylighting sensors, etc., per code requirement for each space.
3. In a typical commercial building environment, to ensure IPV6 wireless communication,
   - 3.1. All battery powered wireless devices (sensors and switches) shall be mounted within 60ft of the wireless room controller or hybrid wireless network bridge to which it is intended to be paired with.
   - 3.2. All constant powered wireless devices (room controllers, network bridges, and border routers) shall be mounted within 100ft of each other and be joined on the same wireless network
   - 3.3. Wireless distances include wireless signal through two typical interior drywall partitions, building construction of concrete, block, or metal walls between wireless devices may reduce this range.



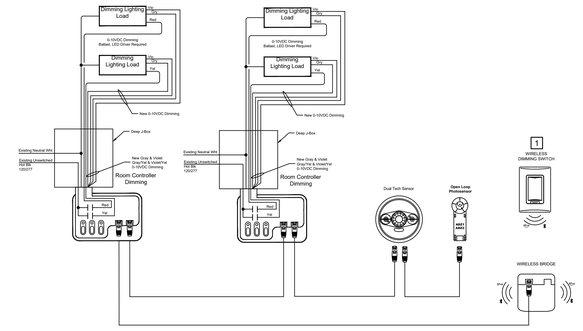
C E601 THREE ZONE WIRELESS HYBRID DETAIL

N.T.S.

Four Zone with Auto-On/Auto-Off and Daylighting

TYPICAL DRAWING DETAIL NOTES

1. Follow manufacturer instructions for proper product placement, installation, wiring and operation.
2. Diagram is typical for space type. Provide proper quantity and type of occupancy sensors, switches, room controllers, daylighting sensors, etc., per code requirement for each space.
3. In a typical commercial building environment, to ensure IPV6 wireless communication,
   - 3.1. All battery powered wireless devices (sensors and switches) shall be mounted within 60ft of the wireless room controller or hybrid wireless network bridge to which it is intended to be paired with.
   - 3.2. All constant powered wireless devices (room controllers, network bridges, and border routers) shall be mounted within 100ft of each other and be joined on the same wireless network
   - 3.3. Wireless distances include wireless signal through two typical interior drywall partitions, building construction of concrete, block, or metal walls between wireless devices may reduce this range.



D E601 FOUR ZONE WIRELESS HYBRID DETAIL

N.T.S.

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Drawing Title

ELECTRICAL DETAILS - LIGHTING CONTROLS

E6.01

Sheet

GENERAL SHEET NOTES

1. REUSE EXISTING BRANCH CIRCUIT WIRE TO FIXTURE WHERE POSSIBLE. NEW WIRING REQUIRED FOR MULTI-ZONED ROOMS. NEW 0-10V REQUIRED FOR ALL DIMMING ZONES.

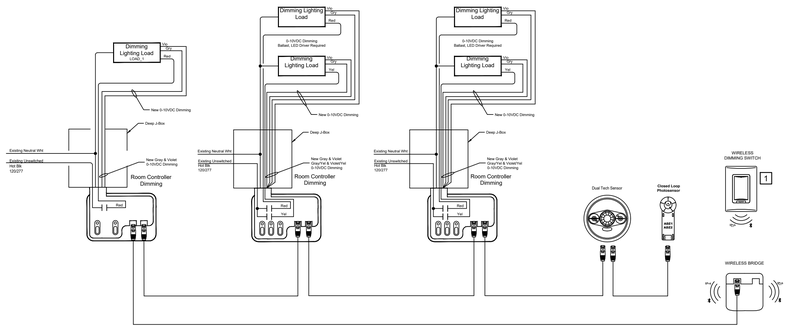
NUMBERED SHEET NOTES

1. PROVIDE QUANTITY OF SWITCH STATIONS AS NOTED ON THE LIGHTING PLANS.
2. PROVIDE TWO BORDER ROUTERS PER FLOOR FOR FULL AREA COVERAGE.
3. PROVIDE 120V POWER TO PANEL REUSING EXISTING CIRCUIT FROM DEMOLITION. REFER TO LIGHTING PLANS.
4. SIMPLIFIED DIAGRAM SHOWING A SINGLE ZONE CONTROL. TYPICAL FOR TWO THRU FIVE ZONE SPACES.

TYPICAL DRAWING DETAIL NOTES

1. Follow manufacturer instructions for proper product placement, installation, wiring and operation.
2. Diagram is typical for space type. Provide proper quantity and type of occupancy sensors, switches, room controllers, daylighting sensors, etc., per code requirement for each space.
3. In a typical commercial building environment, to ensure IPV6 wireless communication,
   - 3.1. All battery powered wireless devices (sensors and switches) shall be mounted within 60ft of the wireless room controller or hybrid wireless network bridge to which it is intended to be paired with.
   - 3.2. All constant powered wireless devices (room controllers, network bridges, and border routers) shall be mounted within 100ft of each other and be joined on the same wireless network
   - 3.3. Wireless distances include wireless signal through two typical interior drywall partitions, building construction of concrete, block, or metal walls between wireless devices may reduce this range.

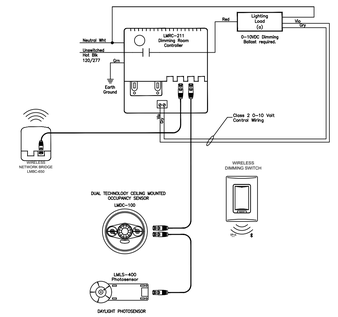
Five Zone with Auto-On/Auto-Off and Daylighting



(3RD FLOOR ELECT RM)

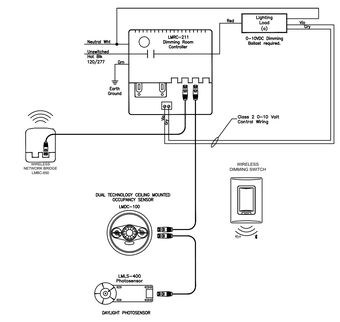
Ethernet

2 LMBR-650 Border Router



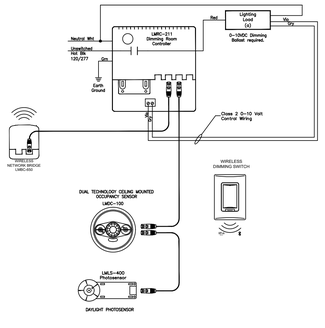
4 Example Single Zone Space

Floor 3



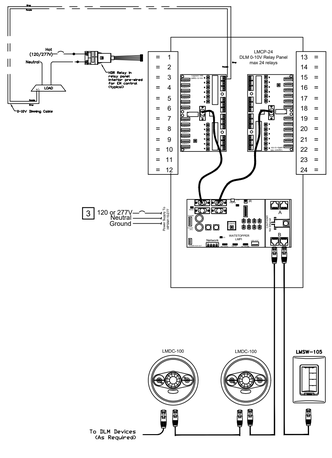
4 Typical Single Zone Space

Floor 2



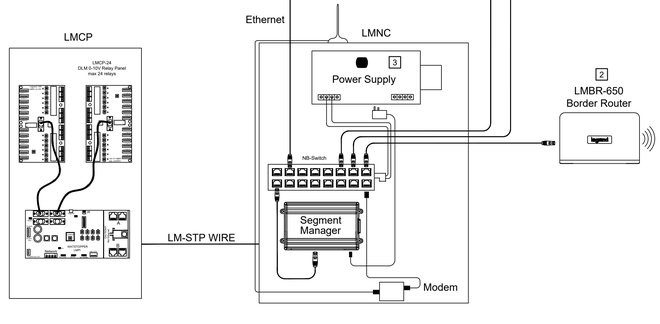
4 Typical Single Zone Space

Floor 1



B E602 LIGHTING CONTROL RELAY PANEL - LCP-1

N.T.S.



C E602 NETWORKED LIGHTING CONTROL SYSTEM RISER

N.T.S.

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REGISTERED PROFESSIONAL ENGINEER KRISTINA MARTIN No. E15303 Exp. 03/31/23 ELECTRICAL STATE OF CALIFORNIA

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Apr 30 2022

SAN MATEO CO. BLDG. INSP. DIV.

EAST PALO ALTO GOVERNMENT CENTER

2415 University Ave.
East Palo Alto, CA 94303

APN: 063-103-370

Issue

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	9/06/22		Issued for Bid

Drawn By	KH
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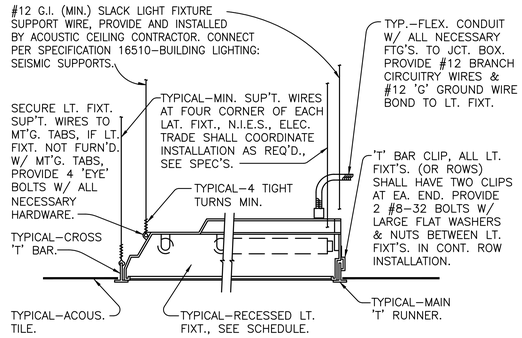
Job No.	20035
Issue Date	02/04/2022
Scale	N.T.S.

Drawing Title

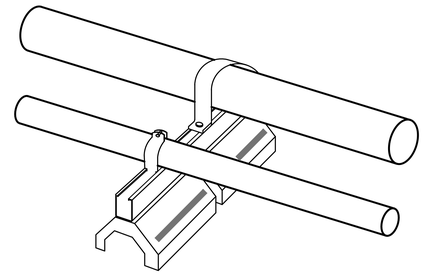
ELECTRICAL DETAILS - LIGHTING CONTROLS

E6.02

Sheet



1 RECESSED LIGHT FIXTURE ON T–BAR MOUNTING DETAIL (N.T.S.)

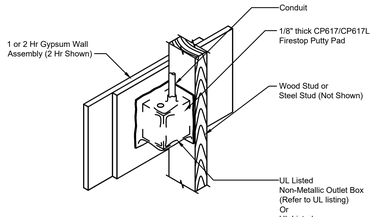


NOTES:

1. BASE WITH 12 ga. GALVANIZED CHANNEL 2 7/16" TALL. DURA-BLOK #DB620: 6 7/16 " X 6" X 20.2".
2. 100% RECYCLED RUBBER, UV RESISTANT.
3. LOAD RATING - ULTIMATE UNIFORM LOAD. 1000 LBS.
4. CHANNEL SUPPORT IS DESIGNED FOR SUPPORT OF CONDUIT SYSTEMS, CABLE TRAY SYSTEMS AND CABLE TRAY. SHALL BE UV RESISTANT AND SUITABLE FOR INSTALLATION ON ANY TYPE OF ROOFING MATERIAL OR OTHER FLOAT SURFACES.

2 ROOF PIPE SUPPORT BASE WITH B12 CHANNEL SCALE: NONE

Wall Opening Protective Materials (CLIV)
as Tested to ANSI/UL 263
1 or 2 Hr Rating



CP 617 Putty Pads, for use with max 4 by 4 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and completely seal against the stud within the stud cavity. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

CP 617 Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated configuration of Wall and Partition Design No. V446 in the Fire Resistance Directory. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the box within the stud cavity. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. and the boxes may be installed back to back.

CP 617 Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the sides of the outlet box against the stud) including the nailing tab and completely seal against the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

CP 617 Firestop Putty Pads, for use with max 4 by 4 by 2-7/8 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in the 1 hr fire rated V446 gypsum board/steel stud Wall and Partition Design in the Fire Resistance Directory. Outlet box secured to steel stud by means of fastening tab supplied with the outlet box. Min ⅛" thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) including the tab and completely seal against the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. and the boxes may be installed back to back.

CP 617 Firestop Putty Pads, for use with max 2-1/4 by 3-3/4 by 2-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Pass and Seymore, Inc., and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the sides of the outlet box against the stud) including the nailing tab and completely seal against the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

CP 617 Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Allied Molded Products, Inc., made from fiber reinforced thermoplastic and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the sides of the outlet box against the stud) including the nailing tabs and completely seal against the stud within the stud cavity. Outlet boxes installed with plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

3 OUTLET BOX AT FIRE RATED WALL (N.T.S.)

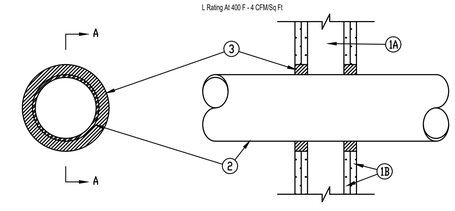
System No. W-L-1054

F Ratings - 1 and 2 Hr (See Items 1 and 3)

T Rating - 0 Hr

L Rating At Ambient - Less Than 1 CFM/Sq Ft

L Rating At 400 F - 4 CFM/Sq Ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.
   The F Rating of the firestop system is equal to the fire rating of the wall assembly.

2. Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous joint contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC -- FS-One Sealant
*Bearing the UL Classification Mark

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.

4 FIRE STOP SYSTEMS (N.T.S.)

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ARCHITECTS

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REGISTERED PROFESSIONAL ENGINEER — KRISTINA MARTIN — No. E15303 — Exp. 03/31/23 — ELECTRICAL — STATE OF CALIFORNIA

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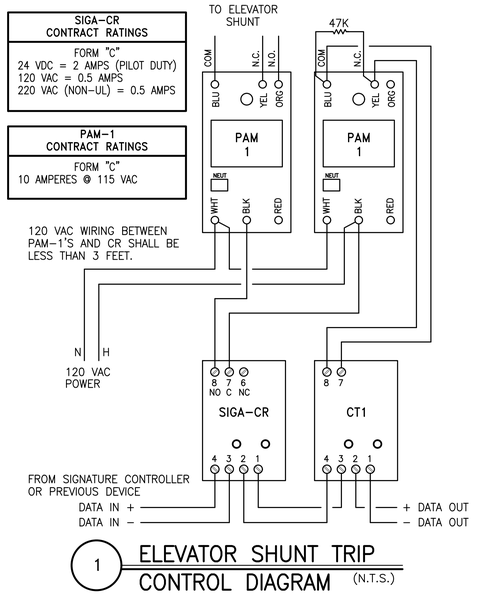
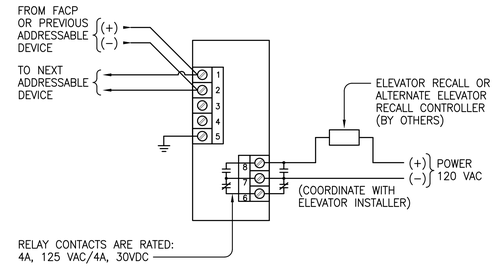
ELECTRICAL DETAILS

E6.03

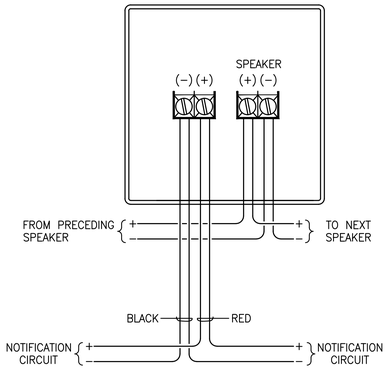
Sheet



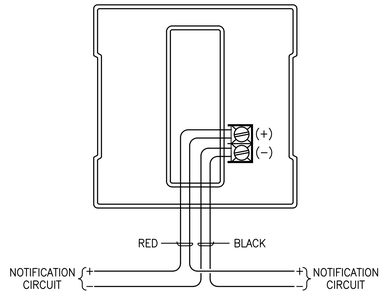
1 ELEVATOR SHUNT TRIP CONTROL DIAGRAM (N.T.S.)



2 INTERFACE RELAY MODULE FOR ELEVATOR RECALL AND ALTERNATE RECALL FUNCTIONS (N.T.S.)



3 TYPICAL HORN/STROBE DETAIL (N.T.S.)



4 TYPICAL STROBE DETAIL (N.T.S.)

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ELECTRICAL DETAILS

E6.04

Sheet